APPENDIX E

ANALYTICAL AND HEADER DATA REPORTS
CHIP CLAIMS (RP2000.LST)

To Accompany 1986 Final Report on the
Chemainus Project, NTS 92B/13, 92C/16

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MA30.C.913 CHEMAINUS
1986 Final Report (Volume 4 of 5)

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB13601

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-13
LOT : 0 CONCESSION :

GRID COORDINATES : E : 429545.0 N : 5417400.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.10	80.11	78.56
AL2O3	10.30	10.84	12.53
FE2O3	5.65	1.84	1.36
FEO	0.00	3.69	3.03
CAO	0.10	0.11	0.11
MGO	0.22	0.23	0.34
NA2O	0.42	0.44	0.84
K2O	2.23	2.35	2.94
TIO2	0.25	0.26	0.19
P2O5	0.10	0.11	0.09
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.85	0.00	0.00
TOTAL	94.99	100.00	100.00

NORMS	
Q	64.78
C	8.82
OR	14.70
AB	4.20
AN	0.09
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.68
FS	4.33
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.04
IL	0.39
CR	0.00
HM	0.00
AP	0.23
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.01
CPX	0.00
AB*	4.20

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.79 SIO2 80.11 SUBALKALINE

OL* 5.07 NE* 3.41 Q* 91.52 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 33.32 F 63.92 M 2.77 THOLEITIC

AL2O3 10.84 NORM PLAG 0.00 THOLEITIC

AN 0.00 AB* 22.23 OR 77.77 K-RICH SERIES

CI 7.43 NORM PLAG 0.00 RHYOLITE

JENSEN THOLEIITIC RHYOLITE
AL 71.77 FE 26.30 MG 1.94

COLOR INDEX : 7.43
HASHIMOTO INDEX : 82.49

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 90.00:SR	-10.00:Y	0.00:ZR	110.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG 0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : PAPERY,LIMONITIC,SERICITIC - SCHIST. 33+85E 4+25N
ESSO RESOURCES, 2130 PROJECT, JAN 1, 1984

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:30:59

SAMPLE ID # AB13602

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-17
LOT : 0 CONCESSION :
GRID COORDINATES : E : 431126.0 N : 5416168.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.30	74.10	70.41
AL203	14.00	14.55	16.29
FE203	3.10	1.83	1.31
FEO	0.00	1.25	1.00
CAO	0.40	0.42	0.42
MGO	2.92	3.03	4.30
NA2O	0.94	0.98	1.80
K2O	3.31	3.44	4.17
TIO2	0.26	0.27	0.19
P2O5	0.08	0.08	0.07
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.39	0.00	0.00
TOTAL	96.23	100.00	100.00

NORMS	
Q	47.37
C	9.70
OR	20.87
AB	9.00
AN	1.56
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	8.59
FS	0.38
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.96
IL	0.39
CR	0.00
HM	0.00
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	8.98
CPX	0.00
AB*	9.00

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.42 SIO2 74.10 SUBALKALINE

OL* 10.30 NE* 8.26 Q* 81.44 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 42.67 F 28.01 M 29.32 CALC-ALKALINE

AL203 14.55 NORM PLAG 14.76 CALC-ALKALINE

AN 4.96 AB* 28.63 OR 66.41 K-RICH SERIES

CI 11.32 NORM PLAG 14.76 DACITE

JENSEN CALC-ALKALINE DACITE
AL 70.45 FE 10.97 MG 18.58

COLOR INDEX : 11.32
HASHIMOTO INDEX : 82.30

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 90.00:SR	80.00:Y	0.00:ZR	110.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG 0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : SERICITE PYRITE SCHIST. 40+20E 2+50S

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:31:37

SAMPLE ID # AB13603

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-6
LOT : 0 CONCESSION :

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

GRID COORDINATES : E : 430395.0 N : 5416985.0 EL : 0.0

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.10	73.53	67.71
AL203	13.50	13.77	14.94
FE203	2.61	1.76	1.22
FEO	0.00	0.81	0.62
CAO	1.29	1.32	1.30
MGO	1.04	1.06	1.46
NA20	6.11	6.23	11.12
K20	1.15	1.17	1.38
TIO2	0.23	0.23	0.16
P205	0.05	0.05	0.04
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.16	0.00	0.00
TOTAL	98.05	100.00	100.00

NORMS	
Q	26.29
C	0.00
OR	6.90
AB	55.62
AN	6.10
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.05
HE	0.00
EN	2.89
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.52
IL	0.32
CR	0.00
HM	0.21
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.89
CPX	0.05
AB*	55.62

CLASSIFICATIONS AND INDICES

NA20+K20	7.40	SIO2	73.53	SUBALKALINE		
OL*	2.55	NE*	39.35	Q*	58.09	SUBALKALINE
CPX	1.59	OL	0.00	OPX	98.41	SUBALKALINE
A	68.18	F	22.05	M	9.77	CALC-ALKALINE
AL203	13.77	NORM PLAG	9.88			CALC-ALKALINE
AN	8.89	AB*	81.06	OR	10.05	AVERAGE SERIES
CI	4.99	NORM PLAG	9.88			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.98 FE 11.13 MG 7.89

COLOR INDEX : 4.99
HASHIMOTO INDEX : 22.84

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	210.00:Y	0.00:ZR	110.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : CHLORITE SERICITE SCHIST . 1% QTZ EYES, 5-8% FELDSPAR. 30+15E 0+90N
ESSO RESOURCES, 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:32:15

SAMPLE ID # AB13605 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001 — FIELD NUMBER : WR-10 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 429140.0 N : 5417270.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT — DATE : 00-???-00
ANALYZED BY : MIN-EN,UBC,XRAL — DATE : 01-JAN-84
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.20	74.13	70.62
AL2O3	12.80	13.52	15.18
FE2O3	2.43	1.75	1.26
FEO	0.00	0.73	0.58
CAO	3.23	3.41	3.48
MGO	1.34	1.42	2.01
NA2O	1.27	1.34	2.48
K2O	3.29	3.47	4.23
TIO2	0.16	0.17	0.12
P2O5	0.04	0.04	0.03
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.00	0.00	0.00
TOTAL	94.69	100.00	100.00

NORMS	
Q	41.65
C	1.62
OR	21.14
AB	12.38
AN	17.12
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.02
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.41
IL	0.24
CR	0.00
HM	0.32
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.02
CPX	0.00
AB*	12.38

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.82 SIO2 74.13 SUBALKALINE
OL* 5.19 NE* 12.80 Q* 82.01 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 56.39 F 27.04 M 16.57 CALC-ALKALINE
AL2O3 13.52 NORM PLAG 58.03 THOLEITIC
AN 33.81 AB* 24.45 OR 41.73 K-RICH SERIES
CI 5.99 NORM PLAG 58.03 HIGH ALUMINA ANDESITE

JENSEN CALC-ALKALINE DACITE
AL 79.23 FE 10.28 MG 10.49

COLOR INDEX : 5.99
HASHIMOTO INDEX : 50.71

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 90.00:SR	180.00:Y	0.00:ZR	80.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG 0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : SERICITE +/- CHLORITE SCHIST. 17+80E 3+05S
ESSO RESOURCES, 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:32:53

SAMPLE ID # AB13606

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-11
LOT : 0 CONCESSION :

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

GRID COORDINATES : E : 428225.0 N : 5418295.0 EL : 0.0

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.40	52.17	47.16
AL203	12.90	13.91	14.82
FE203	10.00	2.17	1.47
FEO	0.00	7.75	5.86
CAO	4.10	4.42	4.28
MGO	15.70	16.92	22.80
NA2O	1.40	1.51	2.64
K2O	0.29	0.31	0.36
TIO2	0.51	0.55	0.37
P2O5	0.07	0.08	0.06
MNO	0.20	0.22	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.54	0.00	0.00
TOTAL	92.77	100.00	100.00

NORMS	
Q	2.06
C	3.44
OR	1.80
AB	13.22
AN	20.92
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	45.60
FS	9.83
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.21
IL	0.75
CR	0.00
HM	0.00
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	55.43
CPX	0.00
AB*	13.22

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.82 SIO2 52.17 SUBALKALINE

OL* 58.79 NE* 11.22 Q* 29.99 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 6.40 F 34.10 M 59.50 THOLEITIC

AL203 13.91 NORM PLAG 61.27 THOLEITIC

AN 58.20 AB* 36.78 OR 5.02 AVERAGE SERIES

CI 58.39 NORM PLAG 61.27 BASALT

JENSEN BASALTIC KOMATIITE
AL 32.57 FE 17.31 MG 50.12

COLOR INDEX : 58.39
HASHIMOTO INDEX : 74.41

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	130.00:Y	0.00:ZR	-10.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : CHLORITE SCHIST. 5+25E 1+25N
ESSO RESOURCES, 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:33:31

SAMPLE ID # AB13607 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001 — FIELD NUMBER : WR-14 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 428930.0 N : 5417805.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT — DATE : 00-???-00
ANALYZED BY : MIN-EN,UBC,XRAL — DATE : 01-JAN-84
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.50	53.89	49.81
AL2O3	14.40	15.07	16.42
FE2O3	9.22	2.31	1.61
FEO	0.00	6.60	5.10
CAO	10.60	11.09	10.99
MGO	5.43	5.68	7.83
NA2O	3.78	3.96	7.09
K2O	0.29	0.30	0.36
TIO2	0.71	0.74	0.52
P2O5	0.14	0.15	0.11
MNO	0.20	0.21	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	95.57	100.00	100.00

NORMS	
Q	0.42
C	0.00
OR	1.79
AB	35.44
AN	22.43
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	16.78
HE	8.46
EN	7.27
FS	3.66
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.41
IL	1.03
CR	0.00
HM	0.00
AP	0.31
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	10.93
CPX	25.24
AB*	35.44

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.26 SIO2 53.89 SUBALKALINE
OL* 17.52 NE* 45.45 Q* 37.04 SUBALKALINE
CPX 69.78 OL 0.00 OPX 30.22 ALKALINE
A 22.87 F 46.62 M 30.51 THOLEITIC
AL2O3 15.07 NORM PLAG 38.76 THOLEITIC
AN 37.59 AB* 59.41 OR 3.00 K-POOR SERIES
CI 39.61 NORM PLAG 38.76 BASALT

JENSEN CALC-ALKALINE BASALT
AL 51.89 FE 23.36 MG 24.74

COLOR INDEX : 39.61
HASHIMOTO INDEX : 28.46

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	390.00:Y	0.00:ZR	-10.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : BASIC LAPILLI TUFF. 13+25E 0+45N
ESSO RESOURCES, 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:34:08

SAMPLE ID # AB13608

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-8
LOT : 0 CONCESSION :

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

GRID COORDINATES : E : 429980.0 N : 5416940.0 EL : 0.0

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	5.28	6.79	7.89
AL2O3	2.02	2.60	3.56
FE2O3	76.10	2.08	1.82
FEO	0.00	86.23	83.75
CAO	1.17	1.51	1.87
MGO	0.26	0.33	0.58
NA2O	0.03	0.04	0.09
K2O	0.08	0.10	0.15
TIO2	0.12	0.15	0.13
P2O5	0.09	0.12	0.11
MNO	0.03	0.04	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	14.80	0.00	0.00
TOTAL	77.72	100.00	100.00

NORMS	
Q	18.67
C	0.00
OR	0.00
AB	0.00
AN	8.30
LC	0.00
NE	0.26
KP	0.46
AC	0.00
DI	0.00
HE	0.00
EN	0.00
FS	0.00
FO	0.87
FA	124.12
WO	0.00
LN	0.04
MT	2.73
IL	0.27
CR	0.00
HM	0.00
AP	0.30
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	124.98
OPX	0.00
CPX	0.00
AB*	0.43

CLASSIFICATIONS AND INDICES

NA2O+K2O 0.14 SIO2 6.79 ALKALINE

OL* 99.79 NE* 0.21 Q* 0.00 ALKALINE

CPX 0.00 OL 100.00 OPX 0.00 SUBALKALINE

A 0.16 F 99.46 M 0.38 THOLEITIC

AL2O3 2.60 NORM PLAG 95.02 THOLEITIC

AN 95.02 AB* 4.98 OR 0.00 SODIC

CI 127.99 NORM PLAG 95.02 ANKARAMITE

JENSEN HIGH IRON THOLEIITIC BASALT
AL 3.96 FE 95.40 MG 0.64

COLOR INDEX : 127.99
HASHIMOTO INDEX : 22.08

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	-10.00:Y	0.00:ZR	-10.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : MASSIVE SULPHIDE,PY,PO,MGT(TRACE) ,CPY, 26+90E 2+03S

REPORT #2000

SAMPLE ID # AB13609

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-1
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430782.0 N : 5417305.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.00	53.79	52.81
AL2O3	11.10	11.48	13.29
FE2O3	19.00	4.53	3.35
FEO	0.00	13.61	11.17
CAO	7.14	7.39	7.77
MGO	2.34	2.42	3.54
NA2O	2.17	2.24	4.27
K2O	0.70	0.72	0.91
TIO2	2.88	2.98	2.20
P2O5	0.51	0.53	0.44
MNO	0.30	0.31	0.26
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.39	0.00	0.00
TOTAL	96.68	100.00	100.00

NORMS	
Q	15.08
C	0.00
OR	4.54
AB	21.36
AN	20.27
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	3.81
HE	8.13
EN	5.18
FS	11.05
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	5.02
IL	4.40
CR	0.00
HM	0.00
AP	1.17
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	16.23
CPX	11.94
AB*	21.36

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.97 SIO2 53.79 SUBALKALINE

OL* 23.11 NE* 24.33 Q* 52.55 SUBALKALINE

CPX 42.37 OL 0.00 OPX 57.63 SUBALKALINE

A 12.87 F 76.64 M 10.49 THOLEITIC

AL2O3 11.48 NORM PLAG 48.68 THOLEITIC

AN 43.90 AB* 46.27 OR 9.83 AVERAGE SERIES

CI 37.59 NORM PLAG 48.68 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 39.30 FE 50.22 MG 10.48

COLOR INDEX : 37.59
HASHIMOTO INDEX : 24.62

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB -10.00:SR 200.00:Y 0.00:ZR 330.00:NB 0.00:AU 0.00:CU 0.00:PB 0.00:ZN 0.00:
AG 0.00:MO 0.00:AS 0.00:SB 0.00:BA 0.00:

COMMENTS : GABBRO (5% MAGNETITE) 32+10E 5+80N
ESSO RESOURCES, 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:35:24

SAMPLE ID # AB13610

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-3
LOT : 0 CONCESSION :

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

GRID COORDINATES : E : 430686.0 N : 5417360.0 EL : 0.0

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.70	50.70	47.44
AL2O3	14.30	14.89	16.42
FE2O3	12.10	3.04	2.14
FEO	0.00	8.60	6.73
CAO	10.50	10.93	10.96
MGO	7.14	7.43	10.37
NA2O	2.34	2.44	4.42
K2O	0.20	0.21	0.25
TIO2	1.42	1.48	1.04
P2O5	0.11	0.11	0.09
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	96.06	100.00	100.00

NORMS	
Q	1.63
C	0.00
OR	1.24
AB	22.10
AN	29.38
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	13.52
HE	6.21
EN	13.97
FS	6.41
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.21
IL	2.08
CR	0.00
HM	0.00
AP	0.24
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	20.39
CPX	19.73
AB*	22.10

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.64 SIO2 50.70 SUBALKALINE

OL* 34.66 NE* 30.06 Q* 35.28 SUBALKALINE

CPX 49.18 OL 0.00 OPX 50.82 SUBALKALINE

A 12.35 F 52.94 M 34.71 THOLEITIC

AL2O3 14.89 NORM PLAG 57.07 THOLEITIC

AN 55.73 AB* 41.91 OR 2.36 AVERAGE SERIES

CI 45.41 NORM PLAG 57.07 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 44.57 FE 27.29 MG 28.14

COLOR INDEX : 45.41
HASHIMOTO INDEX : 36.37

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	200.00:Y	0.00:ZR	70.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : DIABASE 31+10E 5+50N
ESSO RESOURCES, 2130 PROJECT , JAN 1,1984

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 — PAGE 1
PRINTED 26-JAN-87 17:36:02

SAMPLE ID # AB13611 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001 — FIELD NUMBER : WR-5 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 430120.0 N : 5416560.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT — DATE : 00-???-00
ANALYZED BY : MIN-EN,UBC,XRAL — DATE : 01-JAN-84
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.70	52.16	49.11
AL2O3	14.50	15.22	16.89
FE2O3	13.40	3.54	2.51
FEO	0.00	9.47	7.46
CAO	6.95	7.29	7.36
MGO	6.37	6.69	9.38
NA2O	2.51	2.63	4.81
K2O	0.62	0.65	0.78
TIO2	1.87	1.96	1.39
P2O5	0.18	0.19	0.15
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.93	0.00	0.00
TOTAL	95.29	100.00	100.00

NORMS	
Q	5.23
C	0.00
OR	3.91
AB	24.04
AN	28.25
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	3.81
HE	2.02
EN	16.86
FS	8.94
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.76
IL	2.78
CR	0.00
HM	0.00
AP	0.40
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	25.80
CPX	5.83
AB*	24.04

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.28 SIO2 52.16 SUBALKALINE
OL* 35.13 NE* 26.20 Q* 38.67 SUBALKALINE
CPX 18.44 OL 0.00 OPX 81.56 SUBALKALINE
A 14.52 F 55.93 M 29.55 THOLEITIC
AL2O3 15.22 NORM PLAG 54.02 THOLEITIC
AN 50.26 AB* 42.78 OR 6.96 AVERAGE SERIES
CI 38.17 NORM PLAG 54.02 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 44.70 FE 30.47 MG 24.83

COLOR INDEX : 38.17
HASHIMOTO INDEX : 42.49

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	220.00:Y	0.00:ZR	100.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : DIABASE. 29+95E 41+15S
ESSO RESOURCES , 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:36:40

SAMPLE ID # AB13612

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001 | FIELD NUMBER : WR-12 | PROJECT # 952
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 | GRID COORDINATES : E : 428200.0 N : 5418985.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME :
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS.
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT | DATE : 00-???-00 | ANALYTICAL
ANALYZED BY : MIN-EN,UBC,XRAL | DATE : 01-JAN-84 | TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	47.20	49.77	46.38	Q	0.00
AL2O3	19.00	20.03	22.01	C	0.00
FE2O3	12.60	2.17	1.52	OR	2.82
FEO	0.00	10.00	7.79	AB	35.97
CAO	9.34	9.85	9.83	AN	32.79
MGO	1.87	1.97	2.74	LC	0.00
NA2O	4.37	4.61	8.32	NE	3.39
K2O	0.45	0.47	0.56	KP	0.00
TIO2	0.56	0.59	0.41	AC	0.00
P2O5	0.38	0.40	0.32	DI	3.18
MNO	0.13	0.14	0.11	HE	7.81
S	0.00	0.00	0.00	EN	0.00
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.00	0.00	FO	2.92
CO2	0.00	0.00	0.00	FA	7.16
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.08	0.00	0.00	MT	2.28
				IL	0.83
TOTAL	94.84	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.84
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	10.08
				OPX	0.00
				CPX	10.99
				AB*	41.62

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.08 SIO2 49.77 ALKALINE
OL* 20.38 NE* 50.51 Q* 29.11 ALKALINE
CPX 52.17 OL 47.83 OPX 0.00 SUBALKALINE
A 26.74 F 62.89 M 10.37 THOLEITIC
AL2O3 20.03 NORM PLAG 44.06 CALC-ALKALINE
AN 42.45 AB* 53.89 OR 3.66 SODIC
CI 24.18 NORM PLAG 44.06 HAWAIITE
JENSEN THOLEIITIC DACITE
AL 63.63 FE 28.45 MG 7.92

COLOR INDEX : 24.18
HASHIMOTO INDEX : 14.47

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	1060.00:Y	0.00:ZR	-10.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : EPIDOTE-RICH,FINE GRAINED DIABASE. 1+00E 7+10N
ESSO RESOURCES, 2130 PROJECT . JAN 1,1984

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB13613 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001 FIELD NUMBER : WR-2 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430495.0 N : 5416365.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT DATE : 00-???-00 ANALYTICAL
ANALYZED BY : MIN-EN,UBC,XRAL DATE : 01-JAN-84 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	91.30	93.63	93.07
AL2O3	3.10	3.18	3.72
FE2O3	1.58	1.62	1.21
FEO	0.00	0.00	0.00
CAO	0.13	0.13	0.14
MGO	0.35	0.36	0.53
NA2O	0.10	0.10	0.20
K2O	0.73	0.75	0.95
TIO2	0.16	0.16	0.12
P2O5	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.16	0.00	0.00
TOTAL	97.51	100.00	100.00

NORMS	
Q	88.98
C	2.47
OR	4.75
AB	0.99
AN	0.28
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.06
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	1.21
AP	0.14
PO	0.00
NS	0.00
KS	0.00
RU	0.12
AG	0.00
OL	0.00
OPX	1.06
CPX	0.00
AB*	0.99

CLASSIFICATIONS AND INDICES

NA2O+K2O 0.85 SIO2 93.63 SUBALKALINE
OL* 0.88 NE* 0.65 Q* 98.47 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 31.90 F 54.64 M 13.45 THOLEITIC
AL2O3 3.18 NORM PLAG 21.93 THOLEITIC
AN 4.61 AB* 16.42 OR 78.97 K-RICH SERIES
CI 2.28 NORM PLAG 21.93 DACITE

JENSEN THOLEIITIC DACITE
AL 66.62 FE 23.87 MG 9.51

COLOR INDEX : 2.28
HASHIMOTO INDEX : 82.44

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	-10.00:Y	0.00:ZR	-10.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : GREEN CHERT. 34+25E 4+30S

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:37:56

SAMPLE ID # AB13614

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-4
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430270.0 N : 5416415.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	93.40	94.85	95.60
AL203	0.17	0.17	0.21
FE203	5.01	1.53	1.16
FEO	0.00	3.20	2.70
CAO	0.05	0.05	0.05
MGO	0.06	0.06	0.09
NA2O	0.06	0.06	0.12
K2O	0.03	0.03	0.04
TIO2	0.01	0.01	0.01
P2O5	0.02	0.02	0.02
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	0.23	0.00	0.00
TOTAL	98.47	100.00	100.00

NORMS	
Q	92.87
C	0.00
OR	0.20
AB	0.60
AN	0.12
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.01
EN	0.18
FS	4.23
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.74
IL	0.02
CR	0.00
HM	0.00
AP	0.05
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.41
CPX	0.01
AB*	0.60

CLASSIFICATIONS AND INDICES

NA2O+K2O 0.09 SIO2 94.85 SUBALKALINE

OL* 3.38 NE* 0.36 Q* 96.26 SUBALKALINE

CPX 0.22 OL 0.00 OPX 99.78 SUBALKALINE

A 1.93 F 96.78 M 1.29 THOLEITIC

AL203 0.17 NORM PLAG 16.43 THOLEITIC

AN 12.88 AB* 65.53 OR 21.58 AVERAGE SERIES

CI 6.18 NORM PLAG 16.43 DACITE

JENSEN HIGH IRON THOLEIITIC BASALT
AL 4.92 FE 92.89 MG 2.19

COLOR INDEX : 6.18
HASHIMOTO INDEX : 45.00

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB -10.00:SR	-10.00:Y	0.00:ZR	-10.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG 0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : JASPER HEMATITE BEARING CHERT 31+90E 4+75S
ESSO RESOURCES , 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:38:34

SAMPLE ID # AB13615

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR4-15
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430563.0 N : 5416327.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	83.60	86.14	83.89
AL203	5.48	5.65	6.48
FE203	3.59	1.79	1.31
FEO	0.00	1.72	1.40
CAO	0.83	0.86	0.89
MGO	1.10	1.13	1.65
NA2O	1.77	1.82	3.44
K2O	0.51	0.53	0.65
TIO2	0.24	0.25	0.18
P2O5	0.09	0.09	0.08
MNO	0.03	0.03	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.47	0.00	0.00
TOTAL	97.05	100.00	100.00

NORMS	
Q	67.84
C	0.86
OR	3.27
AB	17.22
AN	3.82
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.29
FS	1.17
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.97
IL	0.36
CR	0.00
HM	0.00
AP	0.20
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.46
CPX	0.00
AB*	17.22

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.35 SIO2 86.14 SUBALKALINE

OL* 3.74 NE* 11.54 Q* 84.72 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 34.49 F 48.87 M 16.64 THOLEITIC

AL203 5.65 NORM PLAG 18.17 THOLEITIC

AN 15.73 AB* 70.83 OR 13.44 AVERAGE SERIES

CI 6.79 NORM PLAG 18.17 DACITE

JENSEN THOLEIITIC ANDESITE
AL 58.69 FE 26.42 MG 14.89

COLOR INDEX : 6.79
HASHIMOTO INDEX : 38.24

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	90.00:Y	0.00:ZR	-10.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : BLACK (PY-PO (10%)) BEARING CHERT 34+80E 4+05S
ESSO RESOURCES, 2130 PROJECT, JAN 1,1984

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:39:12

SAMPLE ID # AB13616

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : WR-16
LOT : 0 CONCESSION :

GRID COORDINATES : E : 430705.0 N : 5415978.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C.EVERETT
ANALYZED BY : MIN-EN,UBC,XRAL

DATE : 00-???-00
DATE : 01-JAN-84

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	95.80	98.37	98.62
AL203	0.09	0.09	0.11
FE203	1.31	1.35	1.01
FEO	0.00	0.00	0.00
CAO	0.04	0.04	0.04
MGO	0.06	0.06	0.09
NA20	0.03	0.03	0.06
K20	0.02	0.02	0.03
TI02	0.01	0.01	0.01
P205	0.02	0.02	0.02
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.31	0.00	0.00
TOTAL	97.39	100.00	100.00

NORMS	
Q	98.24
C	0.00
OR	0.13
AB	0.30
AN	0.06
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.01
HE	0.00
EN	0.18
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.02
CR	0.00
HM	1.01
AP	0.05
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.18
CPX	0.01
AB*	0.30

CLASSIFICATIONS AND INDICES

NA20+K20 0.05 SI02 98.37 SUBALKALINE

OL* 0.13 NE* 0.18 Q* 99.68 SUBALKALINE

CPX 7.31 OL 0.00 OPX 92.69 SUBALKALINE

A 3.88 F 91.46 M 4.66 THOLEITIC

AL203 0.09 NORM PLAG 16.13 THOLEITIC

AN 11.79 AB* 61.29 OR 26.92 K-RICH SERIES

CI 1.22 NORM PLAG 16.13 RHYOLITE

JENSEN HIGH IRON THOLEIITIC BASALT
AL 8.86 FE 83.67 MG 7.47

COLOR INDEX : 1.22
HASHIMOTO INDEX : 53.33

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB -10.00:SR -10.00:Y 0.00:ZR -10.00:NB 0.00:AU 0.00:CU 0.00:PB 0.00:ZN 0.00:
AG 0.00:MO 0.00:AS 0.00:SB 0.00:BA 0.00:

COMMENTS : WHITE/BLACK CHERT. 37+60E 6+30S
ESSO RESOURCES, 2130 PROJECT, JAN 1,1984

SAMPLE ID # AB15501 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116DM002 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424890.0 N : 5420350.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.80	52.09	47.75
AL2O3	17.60	18.41	19.89
FE2O3	9.81	2.43	1.67
FEO	0.00	7.05	5.40
CAO	6.78	7.09	6.97
MGO	6.00	6.28	8.57
NA2O	4.05	4.24	7.53
K2O	1.02	1.07	1.25
TIO2	0.82	0.86	0.59
P2O5	0.32	0.33	0.26
MNO	0.15	0.16	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.70	0.00	0.00
TOTAL	95.59	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	6.24
AB	37.64
AN	27.78
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.54
HE	1.36
EN	5.87
FS	3.15
FO	7.50
FA	4.02
WO	0.00
LN	0.00
MT	2.51
IL	1.18
CR	0.75
HM	0.00
AP	0.69
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	11.53
OPX	9.02
CPX	3.90
AB*	37.64

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.30 SIO2 52.09 SUBALKALINE
OL* 31.44 NE* 38.81 Q* 29.75 SUBALKALINE
CPX 15.95 OL 47.16 OPX 36.89 SUBALKALINE
A 25.48 F 44.36 M 30.16 THOLEITIC
AL2O3 18.41 NORM PLAG 42.47 CALC-ALKALINE
AN 38.77 AB* 52.52 OR 8.71 AVERAGE SERIES
CI 28.14 NORM PLAG 42.47 BASALT

JENSEN CALC-ALKALINE BASALT
AL 54.86 FE 21.49 MG 23.65

COLOR INDEX : 28.14
HASHIMOTO INDEX : 39.33

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	560.00:Y	20.00:ZR	50.00:NB	20.00:BA	220.00:AU	0.00:LI	10.00:BE	-10.00:
B	30.00:SC	0.00:V	280.00:CR	0.00:MN	830.00:CO	0.00:NI	21.00:CU	53.00:ZN	82.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : BLOCK-ASH PYROCLASTIC FLOW. MATRIX LIGHT GREEN, DACITIC TO ANDESITIC COMPOSITION. QTZ. CRYSTALS (1-2MM, <35%). BLOCKS ARE BUFF WHITE (2-4CM WIDE, 10-20CM LONG, <15%). PS/62/77NE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:40:35

SAMPLE ID # AB15502

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 | FIELD NUMBER : 86116DM003 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092C16 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 424390.0 N : 5419850.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 19-MAY-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 13-JUN-86 | TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.10	74.78	71.45
AL2O3	12.80	13.46	15.16
FE2O3	1.65	1.74	1.25
FEO	0.00	0.00	0.00
CAO	3.95	4.15	4.25
MGO	0.69	0.73	1.03
NA2O	1.07	1.13	2.08
K2O	3.56	3.74	4.57
TIO2	0.17	0.18	0.13
P2O5	0.05	0.05	0.04
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.77	0.00	0.00
TOTAL	95.07	99.00	99.00

NORMS	
Q	42.09
C	0.14
OR	22.84
AB	10.42
AN	20.91
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.07
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.22
IL	0.26
CR	0.75
HM	0.44
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.07
CPX	0.00
AB*	10.42

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.87 SIO2 74.78 SUBALKALINE
OL* 2.84 NE* 11.46 Q* 85.70 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 68.04 F 21.82 M 10.14 CALC-ALKALINE
AL2O3 13.46 NORM PLAG 66.74 THOLEITIC
AN 38.60 AB* 19.24 OR 42.17 K-RICH SERIES
CI 3.98 NORM PLAG 66.74 HIGH ALUMINA BASALT

JENSEN CALC-ALKALINE RHYOLITE
AL 86.12 FE 8.01 MG 5.87

COLOR INDEX : 3.98
HASHIMOTO INDEX : 45.85

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	100.00:SR	70.00:Y	10.00:ZR	80.00:NB	20.00:BA	1020.00:AU	0.00:LI	10.00:BE	-10.00:
B	30.00:SC	0.00:V	390.00:CR	0.00:MN	270.00:CO	0.00:NI	7.00:CU	20.00:ZN	25.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	8.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS :

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:41:17

SAMPLE ID # AB15503

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM004
LOT : 0 CONCESSION :

GRID COORDINATES : E : 424390.0 N : 5419850.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 20-MAY-86
DATE : 13-JUN-86

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	39.60	44.53	42.33
AL2O3	15.70	17.65	19.78
FE2O3	15.20	3.96	2.83
FEO	0.00	11.82	9.40
CAO	7.93	8.92	9.08
MGO	7.62	8.57	12.14
NA2O	0.34	0.38	0.70
K2O	1.26	1.42	1.72
TIO2	2.02	2.27	1.62
P2O5	0.18	0.20	0.16
MNO	0.24	0.27	0.22
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	10.10	0.00	0.00
TOTAL	88.93	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	8.60
AB	3.52
AN	43.39
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.34
HE	0.19
EN	21.14
FS	11.44
FO	2.22
FA	1.20
WO	0.00
LN	0.00
MT	4.25
IL	3.25
CR	0.01
HM	0.00
AP	0.43
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	3.42
OPX	32.59
CPX	0.53
AB*	3.52

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.80 SIO2 44.53 SUBALKALINE

OL* 70.48 NE* 5.35 Q* 24.17 SUBALKALINE

CPX 1.45 OL 9.37 OPX 89.18 SUBALKALINE

A 6.99 F 59.73 M 33.28 THOLEITIC

AL2O3 17.65 NORM PLAG 92.49 THOLEITIC

AN 78.16 AB* 6.35 OR 15.49 AVERAGE SERIES

CI 44.04 NORM PLAG 92.49 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 43.01 FE 30.59 MG 26.40

COLOR INDEX : 44.04
HASHIMOTO INDEX : 51.78

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	200.00:Y	20.00:ZR	100.00:NB	20.00:BA	460.00:AU	0.00:LI	30.00:BE	-10.00:
B	30.00:SC	0.00:V	390.00:CR	0.00:MN	1400.00:CO	0.00:NI	96.00:CU	120.00:ZN	170.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	8.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS138/82NE. ANDESITE TUFF. FINE GRAINED, MED. GREEN. DK. GREEN-BLACK BANDS, 1-3MM, DISRUPTED BY DEFORMATION.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:42:00

SAMPLE ID # AB15504

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 | FIELD NUMBER : 86116DM007 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092C16 | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 424325.0 N : 5420180.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,APHYRIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 20-MAY-86
ANALYZED BY : XRAL | DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	43.90	47.19	44.07
AL2O3	16.70	17.95	19.76
FE2O3	13.60	2.62	1.84
FEO	0.00	10.79	8.43
CAO	7.79	8.37	8.38
MGO	8.48	9.12	12.69
NA2O	1.23	1.32	2.39
K2O	1.02	1.10	1.31
TIO2	0.94	1.01	0.71
P2O5	0.30	0.32	0.25
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.47	0.00	0.00
TOTAL	93.02	99.00	99.00

NORMS	
Q	0.00
C	0.15
OR	6.54
AB	11.97
AN	39.77
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	17.59
FS	10.35
FO	5.84
FA	3.43
WO	0.00
LN	0.00
MT	2.76
IL	1.42
CR	0.75
HM	0.00
AP	0.68
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	9.27
OPX	27.94
CPX	0.00
AB*	11.97

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.42 SIO2 47.19 SUBALKALINE
OL* 61.46 NE* 14.60 Q* 23.94 SUBALKALINE
CPX 0.00 OL 24.91 OPX 75.09 SUBALKALINE
A 9.80 F 53.28 M 36.92 THOLEITIC
AL2O3 17.95 NORM PLAG 76.87 THOLEITIC
AN 68.24 AB* 20.54 OR 11.22 AVERAGE SERIES
CI 41.39 NORM PLAG 76.87 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 45.33 FE 25.57 MG 29.10

COLOR INDEX : 41.39
HASHIMOTO INDEX : 51.30

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	20.00:SR	620.00:Y	20.00:ZR	30.00:NB	30.00:BA	320.00:AU	0.00:LI	20.00:BE	-10.00:
B	20.00:SC	0.00:V	380.00:CR	0.00:MN	1000.00:CO	0.00:NI	23.00:CU	48.00:ZN	88.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	4.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS177/78SW. FINE GRAINED, MED. TO DK. GREEN ANDESITE/BASALTIC ANDESITE. FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
17:42:43

SAMPLE ID # AB15505 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM008 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092C16 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 424360.0 N : 5420240.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,COARSE,MASSIVE ,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 20-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86 — ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.40	49.68	45.67
AL2O3	14.20	14.88	16.13
FE2O3	10.80	2.27	1.57
FEO	0.00	8.14	6.26
CAO	10.60	11.11	10.94
MGO	9.21	9.65	13.23
NA2O	2.61	2.74	4.88
K2O	0.47	0.49	0.58
TIO2	0.67	0.70	0.49
P2O5	0.11	0.12	0.09
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.03	0.03	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.93	0.00	0.00
TOTAL	95.42	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	2.89
AB	24.38
AN	26.68
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	15.74
HE	6.09
EN	3.68
FS	1.43
FO	11.17
FA	4.33
WO	0.00
LN	0.00
MT	2.36
IL	0.97
CR	0.03
HM	0.00
AP	0.24
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	15.50
OPX	5.11
CPX	21.83
AB*	24.38

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.23 SIO2 49.68 SUBALKALINE
OL* 42.97 NE* 32.51 Q* 24.51 SUBALKALINE
CPX 51.44 OL 36.52 OPX 12.04 SUBALKALINE
A 14.00 F 44.16 M 41.85 THOLEITIC
AL2O3 14.88 NORM PLAG 52.26 THOLEITIC
AN 49.46 AB* 45.18 OR 5.36 AVERAGE SERIES
CI 45.77 NORM PLAG 52.26 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 42.65 FE 22.38 MG 34.97

COLOR INDEX : 45.77
HASHIMOTO INDEX : 42.29

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	430.00:Y	-10.00:ZR	10.00:NB	30.00:BA	250.00:AU	0.00:LI	20.00:BE	-10.00:
B	30.00:SC	0.00:V	330.00:CR	0.00:MN	1100.00:CO	0.00:NI	67.00:CU	120.00:ZN	82.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	6.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS146/76SW LM146/33N. MASSIVE CHLORITIZED PYROXENE-PHYRIC BASALT FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:13:57

SAMPLE ID # AB15506

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM009A
LOT : 0 CONCESSION :

GRID COORDINATES : E : 424550.0 N : 5420540.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (E380)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 20-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	61.00	64.60	61.14
AL203	17.70	18.74	20.91
FE203	8.20	2.33	1.66
FEO	0.00	5.72	4.53
CAO	0.27	0.29	0.29
MGO	0.76	0.80	1.14
NA20	2.69	2.85	5.23
K20	3.33	3.53	4.26
TI02	0.70	0.74	0.53
P205	0.36	0.38	0.31
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	5.08	0.00	0.00
TOTAL	94.42	99.00	99.00

NORMS	
Q	28.29
C	11.86
OR	21.31
AB	26.14
AN	0.55
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.27
FS	7.37
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.49
IL	1.06
CR	0.75
HM	0.00
AP	0.82
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	9.64
CPX	0.00
AB*	26.14

CLASSIFICATIONS AND INDICES

NA20+K20 6.38 SI02 64.60 SUBALKALINE

OL* 11.29 NE* 24.48 Q* 64.24 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 42.52 F 52.11 M 5.37 THOLEITIC

AL203 18.74 NORM PLAG 0.00 CALC-ALKALINE

AN 0.00 AB* 55.08 OR 44.92 K-RICH SERIES

CI 13.19 NORM PLAG 0.00 RHYOLITE

JENSEN THOLEIITIC RHYOLITE
AL 72.67 FE 23.39 MG 3.95

COLOR INDEX : 13.19
HASHIMOTO INDEX : 58.01

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	100.00:SR	200.00:Y	10.00:ZR	120.00:NB	20.00:BA	850.00:AU	0.00:LI	10.00:BE	-10.00:
B	50.00:SC	0.00:V	100.00:CR	0.00:MN	110.00:CO	0.00:NI	4.00:CU	34.00:ZN	43.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	16.00:BI	1.00:TH	0.00:U	0.00:				

COMMENTS : PS100/76NE. PYRITIC SERICITE SCHIST. EXTREMELY WELL FOLIATED, PYRITE DISSEMINATIONS ACCOUNT FOR 1%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:14:42

SAMPLE ID # AB15507 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM009B — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092C16 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 424550.0 N : 5420540.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE,LAPILLI,TECTONIZED,MAFIC PORPHYRITIC ,CRYSTAL.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 20-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.70	53.86	50.99
AL2O3	19.30	20.92	23.34
FE2O3	11.10	2.60	1.85
FEO	0.00	8.48	6.72
CAO	3.16	3.42	3.47
MGO	4.90	5.31	7.49
NA2O	0.56	0.61	1.11
K2O	2.86	3.10	3.75
TIO2	0.90	0.98	0.69
P2O5	0.36	0.39	0.31
MNO	0.30	0.33	0.26
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.93	0.00	0.00
TOTAL	92.26	99.00	99.00

NORMS	
Q	17.15
C	12.58
OR	18.74
AB	5.57
AN	14.76
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	14.99
FS	11.71
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.78
IL	1.39
CR	0.75
HM	0.00
AP	0.83
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	26.70
CPX	0.00
AB*	5.57

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.71 SIO2 53.86 SUBALKALINE
OL* 40.52 NE* 6.76 Q* 52.72 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 18.68 F 54.55 M 26.76 THOLEITIC
AL2O3 20.92 NORM PLAG 72.60 CALC-ALKALINE
AN 37.78 AB* 14.26 OR 47.96 K-RICH SERIES
CI 30.87 NORM PLAG 72.60 BASALT

JENSEN CALC-ALKALINE BASALT
AL 57.83 FE 23.60 MG 18.56

COLOR INDEX : 30.87
HASHIMOTO INDEX : 67.60

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	70.00:SR	130.00:Y	20.00:ZR	60.00:NB	10.00:BA	700.00:AU	0.00:LI	10.00:BE	-10.00:
B	40.00:SC	0.00:V	310.00:CR	0.00:MN	1800.00:CO	0.00:NI	20.00:CU	41.00:ZN	280.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	6.00:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	12.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS100/76NE. HIGHLY SCHISTOSE SERICITE-CHLORITE SCHIST. ON PLANE OF SCHISTOSITY ARE ELLIPTICAL, GREEN, CHLORITIZED, MAFIC CRYSTALS. CRYSTALS ACCOUNT FOR >75% OF THE MODE (3-4MM DIAMETER).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:15:26

SAMPLE ID # AB15508

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM011
LOT : 0 CONCESSION :
GRID COORDINATES : E : 426060.0 N : 5419615.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,TECTONIZED,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 22-MAY-86
DATE : 13-JUN-86

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.50	49.47	46.27
AL2O3	17.70	18.83	20.76
FE2O3	12.40	2.62	1.84
FEO	0.00	9.51	7.44
CAO	7.19	7.65	7.67
MGO	7.37	7.84	10.93
NA2O	1.53	1.63	2.95
K2O	0.67	0.71	0.85
TIO2	0.96	1.02	0.72
P2O5	0.45	0.48	0.38
MNO	0.23	0.24	0.19
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.93	0.00	0.00
TOTAL	93.99	99.00	99.00

NORMS	
Q	3.37
C	2.89
OR	4.26
AB	14.76
AN	35.16
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	21.86
FS	12.99
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.76
IL	1.44
CR	0.75
HM	0.00
AP	1.01
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	34.85
CPX	0.00
AB*	14.76

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.34 SIO2 49.47 SUBALKALINE

OL* 49.34 NE* 16.71 Q* 33.95 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 10.61 F 53.83 M 35.56 THOLEITIC

AL2O3 18.83 NORM PLAG 70.44 CALC-ALKALINE

AN 64.90 AB* 27.24 OR 7.86 AVERAGE SERIES

CI 39.05 NORM PLAG 70.44 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 49.56 FE 24.35 MG 26.09

COLOR INDEX : 39.05
HASHIMOTO INDEX : 47.97

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	40.00:SR	790.00:Y	20.00:ZR	10.00:NB	20.00:BA	370.00:AU	0.00:LI	10.00:BE	-10.00:
B	-10.00:SC	0.00:V	340.00:CR	1300.00:MN	0.00:CO	40.00:NI	79.00:CU	90.00:ZN	-10.00:
GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	4.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS124/85NE LM124/26. MED. GREEN, FINE GRAINED, MODERATELY CHLORITIC. ANHEDRAL, WHITE FELDSPAR GRAINS ARE SLIGHTLY SAUSSERITIZED (1MM, <10%). ROCK IS POSSIBLE DEFORMED FELDSPAR-PHYRIC ANDESITE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
10:16:09

SAMPLE ID # AB15509 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116DM012 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 426225.0 N : 5419875.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,GNEISSIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 22-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.30	50.01	47.03
AL2O3	17.10	17.70	19.63
FE2O3	11.30	2.43	1.72
FEO	0.00	8.34	6.56
CAO	10.80	11.18	11.27
MGO	4.96	5.14	7.20
NA2O	1.57	1.63	2.96
K2O	2.05	2.12	2.55
TIO2	0.85	0.88	0.62
P2O5	0.34	0.35	0.28
MNO	0.21	0.22	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	96.57	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	12.75
AB	14.82
AN	35.29
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	8.33
HE	6.65
EN	9.54
FS	7.62
FO	0.52
FA	0.41
WO	0.00
LN	0.00
MT	2.58
IL	1.25
CR	0.75
HM	0.00
AP	0.75
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.93
OPX	17.16
CPX	14.98
AB*	14.82

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.75 SIO2 50.01 SUBALKALINE

OL* 41.94 NE* 27.02 Q* 31.05 SUBALKALINE

CPX 45.28 OL 2.82 OPX 51.90 SUBALKALINE

A 19.31 F 54.23 M 26.46 THOLEITIC

AL2O3 17.70 NORM PLAG 70.42 CALC-ALKALINE

AN 56.14 AB* 23.58 OR 20.28 AVERAGE SERIES

CI 36.90 NORM PLAG 70.42 BASALT

JENSEN CALC-ALKALINE BASALT
AL 54.67 FE 25.28 MG 20.05

COLOR INDEX : 36.90
HASHIMOTO INDEX : 36.17

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	610.00:Y	30.00:ZR	40.00:NB	20.00:BA	860.00:AU	0.00:LI	20.00:BE	-10.00:
B	30.00:SC	0.00:V	340.00:CR	0.00:MN	1100.00:CO	0.00:NI	28.00:CU	75.00:ZN	86.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	-2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : ROCK IS SIMILAR TO 86116PM003. MASSIVE HORNBLENDE-FELDSPAR PHYRIC ANDESITE FLOW. ANHEDRAL, WHITE FLEDSPAR PHENOS. (1-2MM, <5%). SUBHEDRAL, PURPLE-BLACK HORNBLENDE PHENOS (<6MM, <5%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:16:52

SAMPLE ID # AB15510

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 | FIELD NUMBER : 86116DM013 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092C16 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 426085.0 N : 5419780.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,WHITE MICA,QUARTZ,SCHIST.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 22-MAY-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 13-JUN-86 | TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.00	78.92	75.51
AL2O3	11.70	12.15	13.70
FE2O3	1.23	1.28	0.92
FEO	0.00	0.00	0.00
CAO	1.91	1.98	2.03
MGO	1.17	1.21	1.73
NA2O	1.17	1.21	2.25
K2O	2.91	3.02	3.69
TIO2	0.16	0.17	0.12
P2O5	0.04	0.04	0.03
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.70	0.00	0.00
TOTAL	96.29	99.00	99.00

NORMS	
Q	51.98
C	3.80
OR	18.46
AB	11.27
AN	9.89
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.46
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.17
IL	0.24
CR	0.75
HM	0.14
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.46
CPX	0.00
AB*	11.27

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.24 SIO2 78.92 SUBALKALINE
OL* 3.90 NE* 10.13 Q* 85.97 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 64.18 F 17.41 M 18.41 CALC-ALKALINE
AL2O3 12.15 NORM PLAG 46.73 THOLEITIC
AN 24.95 AB* 28.44 OR 46.60 K-RICH SERIES
CI 5.01 NORM PLAG 46.73 HIGH ALUMINA ANDESITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.13 FE 6.36 MG 10.51

COLOR INDEX : 5.01
HASHIMOTO INDEX : 56.98

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	180.00:Y	10.00:ZR	60.00:NB	-10.00:BA	1200.00:AU	0.00:LI	10.00:BE	-10.00:
B	30.00:SC	0.00:V	10.00:CR	0.00:MN	56.00:CO	0.00:NI	3.00:CU	2.50:ZN	31.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	8.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS122/77NE, LM122/28. QTZ-FELDSPAR-SERICITE SCHIST. MATRIX TRANSLUCENT, SILV. GREEN, APHANTIC X'TALLINITY. PLAGIO. GRAINS SLIGHTLY ELLIPT. (2-3MM X 2MM,<15%). QTZ. GRAINS VITREOUS, CLEAR, RANGE FROM <1MM-5MM DIAM.,<10%. MINOR PY.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:17:36

SAMPLE ID # AB15511 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM017 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092C16 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 426720.0 N : 5419090.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,TECTONIZED,LOOK AT COMMENTS FILE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 22-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.10	51.29	47.93
AL2O3	15.60	17.74	19.54
FE2O3	8.31	2.49	1.75
FEO	0.00	6.26	4.89
CAO	10.30	11.71	11.73
MGO	4.33	4.92	6.86
NA2O	1.68	1.91	3.46
K2O	2.20	2.50	2.99
TIO2	0.69	0.78	0.55
P2O5	0.17	0.19	0.15
MNO	0.16	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	10.90	0.00	0.00
TOTAL	87.92	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	14.93
AB	17.31
AN	32.74
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	12.32
HE	7.39
EN	6.55
FS	3.93
FO	0.75
FA	0.45
WO	0.00
LN	0.00
MT	2.63
IL	1.10
CR	0.75
HM	0.00
AP	0.41
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	1.21
OPX	10.48
CPX	19.71
AB*	17.31

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.41 SIO2 51.29 SUBALKALINE
OL* 31.27 NE* 35.82 Q* 32.91 SUBALKALINE
CPX 62.78 OL 3.84 OPX 33.38 ALKALINE
A 24.73 F 47.66 M 27.60 THOLEITIC
AL2O3 17.74 NORM PLAG 65.42 CALC-ALKALINE
AN 50.38 AB* 26.64 OR 22.98 K-RICH SERIES
CI 35.12 NORM PLAG 65.42 BASALT

JENSEN CALC-ALKALINE BASALT
AL 57.92 FE 21.76 MG 20.33

COLOR INDEX : 35.12
HASHIMOTO INDEX : 35.28

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	200.00:Y	20.00:ZR	30.00:NB	10.00:BA	950.00:AU	0.00:LI	20.00:BE	-10.00:
B	20.00:SC	0.00:V	240.00:CR	0.00:MN	970.00:CO	0.00:NI	33.00:CU	55.00:ZN	110.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	6.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS135/90N. ANDESITIC LAPILLI-BLOCK, PYROCLASTIC FLOW. MATRIX ESSENTIALLY SILV. GREEN, CHLORITE SCHIST. RANDOMLY DIST. THROUGHOUT ARE FELSIC CLASTS, UP TO 5 X 30CM, <10%, LAPILLI, 1-2MM, <10%. WHITE QTZ. VEINS BOUDINED PARALLEL FOLIAT.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15512 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116DM018 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 426770.0 N : 5418960.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 22-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.30	49.55	45.19
AL2O3	12.40	12.99	13.96
FE2O3	9.56	2.26	1.55
FEO	0.00	6.98	5.32
CAO	10.10	10.58	10.34
MGO	13.70	14.35	19.51
NA2O	1.32	1.38	2.44
K2O	0.69	0.72	0.84
TIO2	0.66	0.69	0.47
P2O5	0.16	0.17	0.13
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.13	0.14	0.10
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.93	0.00	0.00
TOTAL	95.46	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	4.21
AB	12.22
AN	26.69
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	15.77
HE	3.37
EN	18.58
FS	3.97
FO	9.41
FA	2.01
WO	0.00
LN	0.00
MT	2.33
IL	0.95
CR	0.15
HM	0.00
AP	0.35
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	11.41
OPX	22.55
CPX	19.14
AB*	12.22

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.11 SIO2 49.55 SUBALKALINE
OL* 61.33 NE* 15.88 Q* 22.79 SUBALKALINE
CPX 36.04 OL 21.49 OPX 42.47 SUBALKALINE
A 8.27 F 35.38 M 56.35 THOLEITIC
AL2O3 12.99 NORM PLAG 68.59 THOLEITIC
AN 61.89 AB* 28.35 OR 9.76 AVERAGE SERIES
CI 56.38 NORM PLAG 68.59 BASALT

JENSEN BASALTIC KOMATIITE
AL 34.09 FE 18.29 MG 47.62

COLOR INDEX : 56.38
HASHIMOTO INDEX : 55.75

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	-10.00:SR	210.00:Y	20.00:ZR	40.00:NB	10.00:BA	290.00:AU	0.00:LI	20.00:BE	-10.00:
B	20.00:SC	0.00:V	240.00:CR	0.00:MN	920.00:CO	0.00:NI	300.00:CU	92.00:ZN	60.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS126/86NE. ANDESITE TUFF WITH CHLORITIZED MAFIC FRAGS. MATRIX IS FINE GRAINED, >80%. RANDOMLY DISTRIBUTED THROUGHOUT ARE FINE, WHITE FELDSPAR GRAINS (<<1MM, <7%). MAFIC FRAGS. ARE ANGULAR, SHARD SHAPED, 2CM X 0.5CM, <10%.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:19:02

SAMPLE ID # AB15513 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM025 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430400.0 N : 5417850.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,LITHIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 26-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	49.00	51.56	47.31
AL203	18.30	19.25	20.83
FE203	10.80	2.45	1.69
FEO	0.00	8.02	6.15
CAO	6.61	6.95	6.84
MGO	4.80	5.05	6.91
NA2O	4.75	5.00	8.89
K2O	0.29	0.31	0.36
TI02	0.83	0.87	0.60
P205	0.34	0.36	0.28
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	4.31	0.00	0.00
TOTAL	95.03	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	1.79
AB	44.46
AN	28.94
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	1.32
HE	1.02
EN	2.22
FS	1.71
FO	8.20
FA	6.35
WO	0.00
LN	0.00
MT	2.54
IL	1.21
CR	0.75
HM	0.00
AP	0.74
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	14.55
OPX	3.93
CPX	2.34
AB*	44.46

CLASSIFICATIONS AND INDICES

NA20+K20 5.30 SI02 51.56 ALKALINE
OL* 27.80 NE* 42.38 Q* 29.82 ALKALINE
CPX 11.25 OL 69.88 OPX 18.87 SUBALKALINE
A 25.77 F 49.69 M 24.54 THOLEITIC
AL203 19.25 NORM PLAG 39.43 CALC-ALKALINE
AN 38.50 AB* 59.13 OR 2.38 SODIC
CI 24.57 NORM PLAG 39.43 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 57.34 FE 23.65 MG 19.02

COLOR INDEX : 24.57
HASHIMOTO INDEX : 30.94

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	20.00:SR	540.00:Y	20.00:ZR	50.00:NB	20.00:BA	200.00:AU	0.00:LI	30.00:BE	-10.00:
B	20.00:SC	0.00:V	230.00:CR	0.00:MN	990.00:CO	0.00:NI	16.00:CU	41.00:ZN	100.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS110/68NE. ANDESITIC COMPOSITION CRYSTAL-LAPILLI TUFF. MASSIVE, MED. GREEN, FINE GRAINED CLASTS (6 X 1-2CM, 40-50%). IDENTICAL COMPOSITION TO MATRIX. FELDSPAR CRYSTALS LESS PREVALENT IN CLASTS.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:19:46

SAMPLE ID # AB15514

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 | FIELD NUMBER : 86116DM026 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 430300.0 N : 5418100.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,LITHIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 26-MAY-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 13-JUN-86 | TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.30	51.96	48.37
AL2O3	17.30	18.23	20.01
FE2O3	10.30	2.31	1.62
FEO	0.00	7.69	5.99
CAO	8.59	9.05	9.03
MGO	5.87	6.19	8.58
NA2O	2.32	2.45	4.41
K2O	0.93	0.98	1.17
TIO2	0.69	0.73	0.51
P2O5	0.24	0.25	0.20
MNO	0.15	0.16	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.39	0.00	0.00
TOTAL	94.87	99.00	99.00

NORMS	
Q	1.84
C	0.00
OR	5.83
AB	22.06
AN	36.07
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	3.67
HE	2.26
EN	15.33
FS	9.46
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.43
IL	1.02
CR	0.75
HM	0.00
AP	0.53
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	24.79
CPX	5.93
AB*	22.06

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.43 SIO2 51.96 SUBALKALINE
OL* 38.18 NE* 27.18 Q* 34.64 SUBALKALINE
CPX 19.31 OL 0.00 OPX 80.69 SUBALKALINE
A 17.67 F 50.40 M 31.92 THOLEITIC
AL2O3 18.23 NORM PLAG 62.05 CALC-ALKALINE
AN 56.39 AB* 34.50 OR 9.11 AVERAGE SERIES
CI 34.16 NORM PLAG 62.05 BASALT

JENSEN CALC-ALKALINE BASALT
AL 54.32 FE 22.37 MG 23.31

COLOR INDEX : 34.16
HASHIMOTO INDEX : 38.40

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	20.00:SR	660.00:Y	20.00:ZR	40.00:NB	20.00:BA	450.00:AU	0.00:LI	20.00:BE	-10.00:
B	20.00:SC	0.00:V	290.00:CR	0.00:MN	830.00:CO	0.00:NI	32.00:CU	96.00:ZN	88.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	-2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS127/72NE. DACITIC TO RHYODACITIC COMP. CRYSTAL-LAPILLI TUFF. MED. GREEN, FINE GRAINED FELDSPARS (1-2MM,10-15%), SHARD-SHAPED CHLORITIZED, MAFIC FRAGS, ELONGATE IN PLANE OF FOLIATION (6 X 3MM, <7%) CLASTS CREAM WHITE, FELSIC.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:20:29

SAMPLE ID # AB15515 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM040 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430475.0 N : 5417300.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,WHITE MICA,STAUROLITE,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 28-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.30	76.59	73.87
AL2O3	13.30	13.90	15.80
FE2O3	3.06	1.91	1.39
FEO	0.00	1.16	0.93
CAO	1.50	1.57	1.62
MGO	0.58	0.61	0.87
NA2O	0.73	0.76	1.43
K2O	2.89	3.02	3.72
TIO2	0.33	0.34	0.25
P2O5	0.07	0.07	0.06
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.23	0.00	0.00
TOTAL	95.70	99.00	99.00

NORMS	
Q	53.97
C	7.61
OR	18.60
AB	7.13
AN	7.60
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.74
FS	1.10
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.08
IL	0.50
CR	0.75
HM	0.00
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.84
CPX	0.00
AB*	7.13

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.78 SIO2 76.59 SUBALKALINE
OL* 3.33 NE* 6.69 Q* 89.98 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 52.06 F 39.60 M 8.34 THOLEITIC
AL2O3 13.90 NORM PLAG 51.59 THOLEITIC
AN 22.80 AB* 21.40 OR 55.80 K-RICH SERIES
CI 5.42 NORM PLAG 51.59 ANDESITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.86 FE 13.63 MG 4.51

COLOR INDEX : 5.42
HASHIMOTO INDEX : 60.88

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	80.00:SR	60.00:Y	20.00:ZR	130.00:NB	10.00:BA	1260.00:AU	0.00:LI	10.00:BE	-10.00:
B	40.00:SC	0.00:V	40.00:CR	0.00:MN	400.00:CO	0.00:NI	4.00:CU	15.00:ZN	33.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	12.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS116/74NE. APHANTIC X'TALLINITY. EXTREMELY FISSILE, ACRYSTALLINE SERICITE SCHIST. LOCAL CONCENTRATIONS OF DISSEMINATED PY (<5%) OCCURS IN SILICEOUS BANDS, ABOUT 2CM IN THICKNESS.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:21:12

SAMPLE ID # AB15516 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM043 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430745.0 N : 5416700.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 28-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.20	76.49	71.94
AL2O3	14.30	14.54	16.12
FE2O3	1.77	1.78	1.26
FEO	0.00	0.02	0.01
CAO	0.15	0.15	0.15
MGO	0.35	0.36	0.50
NA2O	3.43	3.49	6.36
K2O	2.78	2.83	3.40
TIO2	0.25	0.25	0.18
P2O5	0.05	0.05	0.04
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	98.31	99.00	99.00

NORMS	
Q	41.99
C	6.19
OR	16.98
AB	31.81
AN	0.43
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.00
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.10
IL	0.36
CR	0.75
HM	0.53
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.00
CPX	0.00
AB*	31.81

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.32 SIO2 76.49 SUBALKALINE
OL* 1.00 NE* 25.51 Q* 73.49 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 76.17 F 19.54 M 4.29 CALC-ALKALINE
AL2O3 14.54 NORM PLAG 1.34 CALC-ALKALINE
AN 0.87 AB* 64.62 OR 34.50 K-RICH SERIES
CI 2.98 NORM PLAG 1.34 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 89.04 FE 8.21 MG 2.76

COLOR INDEX : 2.98
HASHIMOTO INDEX : 46.65

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	130.00:Y	10.00:ZR	120.00:NB	10.00:BA	830.00:AU	0.00:LI	10.00:BE	-10.00:
B	30.00:SC	0.00:V	20.00:CR	0.00:MN	220.00:CO	0.00:NI	3.00:CU	9.00:ZN	36.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	16.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS135/50NE. QTZ-SERICITE SCHIST, LIKELY ALTERED/METAMORPHOSED QTZ-FELD CRYSTAL TUFF OF FELSIC COMP. RANDOMLY DIST. THROUGHOUT ARE EQUANT TO ELLIPTICAL FELDSPAR GRAINS (1-1.5MM, 10%). QTZ. GRAINS (2 X 1MM, <5%). RUST-ORANGE GRAINS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
10:21:56

SAMPLE ID # AB15517 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116DM044 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 430740.0 N : 5416680.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 28-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.50	55.95	51.62
AL203	17.70	18.86	20.51
FE203	11.90	2.49	1.73
FEO	0.00	9.17	7.07
CAO	0.30	0.32	0.32
MGO	6.69	7.13	9.80
NA2O	3.62	3.86	6.90
K2O	0.92	0.98	1.16
TIO2	0.84	0.90	0.62
P2O5	0.13	0.14	0.11
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.62	0.00	0.00
TOTAL	93.83	99.00	99.00

NORMS	
Q	11.12
C	12.19
OR	5.78
AB	34.50
AN	0.68
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	19.60
FS	12.51
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.60
IL	1.24
CR	0.75
HM	0.00
AP	0.29
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	32.11
CPX	0.00
AB*	34.50

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.84 SIO2 55.95 SUBALKALINE
OL* 30.98 NE* 26.63 Q* 42.39 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 20.70 F 48.81 M 30.50 THOLEITIC
AL203 18.86 NORM PLAG 1.92 CALC-ALKALINE
AN 1.65 AB* 84.24 OR 14.10 AVERAGE SERIES
CI 35.95 NORM PLAG 1.92 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 51.40 FE 24.04 MG 24.56

COLOR INDEX : 35.95
HASHIMOTO INDEX : 66.00

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	80.00:Y	10.00:ZR	30.00:NB	10.00:BA	430.00:AU	0.00:LI	20.00:BE	-10.00:
B	20.00:SC	0.00:V	320.00:CR	0.00:MN	1200.00:CO	0.00:NI	34.00:CU	4.00:ZN	130.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	-2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS115/51NE. DK. GREEN, FINE GRAINED, CHLORITE SCHIST. NO MINERALIZATION.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:22:39

SAMPLE ID # AB15518 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116DM024 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 430800.0 N : 5417200.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,QUARTZ,WHITE MICA,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 27-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.20	78.58	75.13
AL2O3	13.30	13.72	15.46
FE2O3	1.83	1.79	1.29
FEO	0.00	0.08	0.07
CAO	0.14	0.14	0.15
MGO	0.96	0.99	1.41
NA2O	1.45	1.50	2.77
K2O	2.74	2.83	3.45
TIO2	0.24	0.25	0.18
P2O5	0.07	0.07	0.06
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.96	99.00	99.00

NORMS	
Q	54.95
C	9.13
OR	17.25
AB	13.86
AN	0.25
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.82
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.29
IL	0.36
CR	0.75
HM	0.43
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.82
CPX	0.00
AB*	13.86

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.32 SIO2 78.58 SUBALKALINE
OL* 2.95 NE* 11.61 Q* 85.44 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 61.65 F 24.23 M 14.12 CALC-ALKALINE
AL2O3 13.72 NORM PLAG 1.78 CALC-ALKALINE
AN 0.80 AB* 44.19 OR 55.01 K-RICH SERIES
CI 4.90 NORM PLAG 1.78 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.80 FE 8.55 MG 7.65

COLOR INDEX : 4.90
HASHIMOTO INDEX : 69.94

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	70.00:SR	60.00:Y	10.00:ZR	90.00:NB	-10.00:BA	1460.00:AU	0.00:LI	10.00:BE	-10.00:
B	40.00:SC	0.00:V	20.00:CR	0.00:MN	370.00:CO	0.00:NI	4.00:CU	14.00:ZN	33.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	8.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS120/60NE. QTZ-SERICITE SCHIST. PERTURBATIONS ON PLANE OF FOLIATION. 8MM IN DIAM., GREY TO WHITE, VITREOUS QTZ. GRAINS, ELLIPSOIDAL, <7%. IN SHARP CONTACT WITH GABBRO.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15519 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM032 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430770.0 N : 5417190.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 27-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	78.30	80.33	77.86
AL2O3	12.80	13.13	15.00
FE2O3	2.34	1.74	1.27
FEO	0.00	0.59	0.48
CAO	0.06	0.06	0.06
MGO	0.19	0.19	0.28
NA2O	0.45	0.46	0.87
K2O	3.12	3.20	3.96
TIO2	0.20	0.21	0.15
P2O5	0.05	0.05	0.04
MNO	0.03	0.03	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	97.47	99.00	99.00

NORMS	
Q	62.88
C	10.18
OR	19.81
AB	4.34
AN	0.02
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.56
FS	0.44
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.91
IL	0.30
CR	0.75
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.00
CPX	0.00
AB*	4.34

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.66 SIO2 80.33 SUBALKALINE
OL* 1.10 NE* 3.81 Q* 95.09 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 60.86 F 35.90 M 3.24 THOLEITIC
AL2O3 13.13 NORM PLAG 0.00 CALC-ALKALINE
AN 0.00 AB* 17.96 OR 82.04 K-RICH SERIES
CI 3.21 NORM PLAG 0.00 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.17 FE 11.19 MG 1.64

COLOR INDEX : 3.21
HASHIMOTO INDEX : 86.65

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	80.00:SR	20.00:Y	-10.00:ZR	110.00:NB	20.00:BA	1680.00:AU	0.00:LI	10.00:BE	-10.00:
B	50.00:SC	0.00:V	20.00:CR	0.00:MN	180.00:CO	0.00:NI	3.00:CU	6.50:ZN	17.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	6.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS112/72SW. SERICITE SCHIST. MATRIX IS >9% OF ROCK.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15520 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116DM033 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 430955.0 N : 5417180.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 27-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.20	73.57	70.31
AL2O3	13.70	13.96	15.73
FE2O3	3.33	1.73	1.25
FEO	0.00	1.49	1.19
CAO	4.25	4.33	4.43
MGO	1.03	1.05	1.49
NA2O	1.60	1.63	3.02
K2O	1.88	1.92	2.34
TIO2	0.20	0.20	0.15
P2O5	0.05	0.05	0.04
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.77	0.00	0.00
TOTAL	98.13	99.00	99.00

NORMS	
Q	43.03
C	1.63
OR	11.69
AB	15.10
AN	21.83
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.99
FS	1.95
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.87
IL	0.29
CR	0.75
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.94
CPX	0.00
AB*	15.10

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.55 SIO2 73.57 SUBALKALINE
OL* 5.87 NE* 14.37 Q* 79.76 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 46.36 F 39.92 M 13.72 THOLEITIC
AL2O3 13.96 NORM PLAG 59.11 THOLEITIC
AN 44.89 AB* 31.06 OR 24.04 K-RICH SERIES
CI 7.10 NORM PLAG 59.11 ANDESITE

JENSEN CALC-ALKALINE DACITE
AL 79.20 FE 13.28 MG 7.53

COLOR INDEX : 7.10
HASHIMOTO INDEX : 33.22

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	170.00:Y	10.00:ZR	100.00:NB	20.00:BA	990.00:AU	0.00:LI	20.00:BE	-10.00:
B	30.00:SC	0.00:V	20.00:CR	0.00:MN	420.00:CO	0.00:NI	4.00:CU	17.00:ZN	29.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	10.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS134/71SW/ QTZ-FELDSPAR CRYSTAL DACITIC TUFF. MATRIX IS APHANTIC, PALE SILV. GREEN, 80%. RANDOMLY DISTRIBUTED EQUANT TO SUBHEDRAL LATH-LIKE FELDS (1MM, <7%). QTZ. EYES, SPHERICAL TO ELLIPTICAL, (1-4MM, <5%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:24:48

SAMPLE ID # AB15521 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116DM036 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431060.0 N : 5416940.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 27-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.90	74.00	69.55
AL203	15.80	16.26	18.01
FE203	2.11	1.78	1.26
FEO	0.00	0.35	0.28
CAO	0.13	0.13	0.13
MGO	0.81	0.83	1.17
NA2O	2.81	2.89	5.27
K2O	3.29	3.39	4.06
TIO2	0.23	0.24	0.17
P2O5	0.05	0.05	0.04
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	97.15	99.00	99.00

NORMS	
Q	40.21
C	8.55
OR	20.32
AB	26.35
AN	0.33
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.34
FS	0.07
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.89
IL	0.33
CR	0.75
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.41
CPX	0.00
AB*	26.35

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.28 SIO2 74.00 SUBALKALINE

OL* 2.62 NE* 22.92 Q* 74.46 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 69.25 F 21.55 M 9.20 CALC-ALKALINE

AL203 16.26 NORM PLAG 1.24 CALC-ALKALINE

AN 0.71 AB* 56.06 OR 43.24 K-RICH SERIES

CI 4.63 NORM PLAG 1.24 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.02 FE 8.41 MG 5.58

COLOR INDEX : 4.63
HASHIMOTO INDEX : 58.24

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	90.00:SR	90.00:Y	20.00:ZR	100.00:NB	10.00:BA	1160.00:AU	0.00:LI	10.00:BE	-10.00:
B	50.00:SC	0.00:V	10.00:CR	0.00:MN	450.00:CO	0.00:NI	6.00:CU	10.00:ZN	39.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS106/66NE. QTZ-FELD CRYSTAL TUFF OF DACITIC COMP. SERICITE SCHIST WITH RANDOMLY DIST. VITREOUS, CLEAR QTZ. EYES (1-2MM, <7%). FELDSPAR CRYSTALS, EUHEDRAL (1-2MM, 5-7%), ELLIPTICAL (4 X 1MM, <5%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:25:32

SAMPLE ID # AB15522

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM056
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430950.0 N : 5417590.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 30-MAY-86
DATE : 25-JUN-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.90	54.29	50.70
AL203	12.90	13.49	14.85
FE203	9.70	2.19	1.54
FEO	0.00	7.16	5.59
CAO	11.00	11.51	11.51
MGO	7.54	7.89	10.98
NA2O	1.79	1.87	3.39
K2O	0.52	0.54	0.65
TIO2	0.59	0.62	0.43
P2O5	0.22	0.23	0.18
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.03	0.03	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.69	0.00	0.00
TOTAL	95.60	100.00	100.00

NORMS	
Q	6.47
C	0.00
OR	3.24
AB	16.95
AN	27.04
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	16.44
HE	6.77
EN	13.74
FS	5.66
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.30
IL	0.87
CR	0.03
HM	0.00
AP	0.49
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	19.39
CPX	23.21
AB*	16.95

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.42 SIO2 54.29 SUBALKALINE

OL* 33.97 NE* 23.76 Q* 42.27 SUBALKALINE

CPX 54.48 OL 0.00 OPX 45.52 SUBALKALINE

A 12.43 F 46.98 M 40.59 THOLEITIC

AL203 13.49 NORM PLAG 61.47 THOLEITIC

AN 57.24 AB* 35.89 OR 6.87 AVERAGE SERIES

CI 45.78 NORM PLAG 61.47 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 44.29 FE 22.98 MG 32.73

COLOR INDEX : 45.78
HASHIMOTO INDEX : 38.66

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 20.00:SR 310.00:Y 20.00:ZR 30.00:NB 10.00:BA 220.00:

COMMENTS : PS127/90. PALE TO LT. GREEN, FINE TO MED. GRAINED VOLCANIC (PYROCLASTIC) OF ANDESITIC COMP. ANHEDRAL, SAUSSERITIZED FELDSPAR (1-2MM, >60%). ANHEDRAL TO SUBHEDRAL, LATH-LIKE AMPHIBOLE GRAINS (2 X 1MM, <30%). MINOR CARBONATE.

SAMPLE ID # AB15523 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116DM057 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430920.0 N : 5417635.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 30-MAY-86
ANALYZED BY : XRAL — DATE : 25-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	60.70	62.42	57.62
AL2O3	16.70	17.17	18.69
FE2O3	5.59	2.04	1.41
FEO	0.00	3.34	2.58
CAO	6.06	6.23	6.16
MGO	2.38	2.45	3.37
NA2O	4.89	5.03	9.00
K2O	0.43	0.44	0.52
TIO2	0.48	0.49	0.34
P2O5	0.27	0.28	0.22
MNO	0.11	0.11	0.09
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.93	0.00	0.00
TOTAL	97.24	99.00	99.00

NORMS	
Q	13.19
C	0.00
OR	2.61
AB	45.00
AN	22.91
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.99
HE	1.88
EN	5.24
FS	3.29
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.12
IL	0.69
CR	0.75
HM	0.00
AP	0.58
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	8.53
CPX	4.88
AB*	45.00

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.47 SIO2 62.42 SUBALKALINE

OL* 9.59 NE* 40.47 Q* 49.94 SUBALKALINE

CPX 36.37 OL 0.00 OPX 63.63 SUBALKALINE

A 41.79 F 39.51 M 18.70 THOLEITIC

AL2O3 17.17 NORM PLAG 33.74 CALC-ALKALINE

AN 32.49 AB* 63.81 OR 3.70 K-POOR SERIES

CI 16.21 NORM PLAG 33.74 ANDESITE

JENSEN CALC-ALKALINE DACITE
AL 70.57 FE 16.71 MG 12.72

COLOR INDEX : 16.21
HASHIMOTO INDEX : 20.42

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB 20.00:SR 610.00:Y 30.00:ZR 90.00:NB 20.00:BA 310.00:

COMMENTS : PS127/90. ANDESITIC TO DACITIC COMPOSITION. MASSIVE, LT. GREEN TUFFACEOUS HOST TO FELSIC CLASTS (8611DM058). SAMPLE TAKEN IN PROXIMITY TO BARREN WHITE QTZ. VEINS (<1CM TO 35CM, 30-40% OF ROCK).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:26:53

SAMPLE ID # AB15524

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 | FIELD NUMBER : 86116DM058 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 430920.0 N : 5417630.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,BLOCK ,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 30-MAY-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 25-JUN-86 | TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	63.40	65.01	60.19
AL2O3	15.50	15.89	17.35
FE2O3	5.22	2.02	1.41
FEO	0.00	3.00	2.32
CAO	5.33	5.47	5.42
MGO	2.45	2.51	3.47
NA2O	4.80	4.92	8.83
K2O	0.31	0.32	0.38
TIO2	0.47	0.48	0.34
P2O5	0.26	0.27	0.21
MNO	0.11	0.11	0.09
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	97.51	99.00	99.00

NORMS	
Q	18.08
C	0.00
OR	1.88
AB	44.17
AN	20.34
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.61
HE	1.41
EN	5.63
FS	3.04
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.11
IL	0.67
CR	0.75
HM	0.00
AP	0.56
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	8.66
CPX	4.02
AB*	44.17

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.24 SIO2 65.01 SUBALKALINE
OL* 9.16 NE* 37.37 Q* 53.47 SUBALKALINE
CPX 31.71 OL 0.00 OPX 68.29 SUBALKALINE
A 41.69 F 38.32 M 19.99 THOLEITIC
AL2O3 15.89 NORM PLAG 31.52 CALC-ALKALINE
AN 30.63 AB* 66.54 OR 2.83 K-POOR SERIES
CI 15.47 NORM PLAG 31.52 ANDESITE

JENSEN CALC-ALKALINE ANDESITE
AL 69.48 FE 16.64 MG 13.89

COLOR INDEX : 15.47
HASHIMOTO INDEX : 21.41

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 30.00:SR 700.00:Y 30.00:ZR 90.00:NB 20.00:BA 160.00:

COMMENTS : SAMPLE OF AND INDIVIDUAL CLAST, BLOCKY TO ELLIPTICAL IN SHAPE, MEAN SIZE ABOUT 20CM. PALE GREEN, FINE GRAINED, MASSIVE SAMPLE TAKEN FROM CLAST-RICH SECTION ABOUT 50%. SAMPLED FROM CRYSTAL-BLOCK PYROCLASTIC FLOW, DACITIC COMPOSITION.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:27:33

SAMPLE ID # AB15525 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86116DM060 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431050.0 N : 5417770.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 30-MAY-86
ANALYZED BY : XRAL DATE : 25-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	54.40	56.89	51.91
AL2O3	17.10	17.88	19.23
FE2O3	7.73	2.24	1.54
FEO	0.00	5.26	4.01
CAO	5.37	5.62	5.49
MGO	5.06	5.29	7.20
NA2O	5.07	5.30	9.38
K2O	0.30	0.31	0.37
TIO2	0.64	0.67	0.46
P2O5	0.39	0.41	0.32
MNO	0.12	0.13	0.10
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.93	0.00	0.00
TOTAL	95.61	99.00	99.00

NORMS	
Q	2.39
C	0.00
OR	1.83
AB	46.90
AN	23.72
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.60
HE	0.28
EN	14.09
FS	6.63
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.31
IL	0.92
CR	0.75
HM	0.00
AP	0.84
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	20.72
CPX	0.88
AB*	46.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.62 SIO2 56.89 SUBALKALINE
OL* 22.20 NE* 40.20 Q* 37.61 SUBALKALINE
CPX 4.08 OL 0.00 OPX 95.92 SUBALKALINE
A 30.89 F 40.01 M 29.10 THOLEITIC
AL2O3 17.88 NORM PLAG 33.59 CALC-ALKALINE
AN 32.74 AB* 64.73 OR 2.52 K-POOR SERIES
CI 24.82 NORM PLAG 33.59 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 59.11 FE 18.77 MG 22.12

COLOR INDEX : 24.82
HASHIMOTO INDEX : 33.92

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 20.00:SR 430.00:Y 30.00:ZR 80.00:NB 20.00:BA 240.00:

COMMENTS : PS137/90. ANDESITIC TO DACITIC COMP. CRYSTAL-LAPILLI TUFF. FINE-GRAINED, PALE GREEN, MODERATELY CHLORITIC, DISPLAYS CLASTIC TEXTURE, EQUANT YELLOW-WHITE FELDSPAR GRAINS (1MM, (7%). RANDOMLY DIST. THROUGH AGGREGATE OF FELD. AND AMPH.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:28:13

SAMPLE ID # AB15526

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM062A
LOT : 0 CONCESSION :
GRID COORDINATES : E : 431100.0 N : 5417800.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 30-MAY-86
DATE : 25-JUN-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.30	48.70	45.50
AL2O3	18.90	19.46	21.43
FE2O3	8.35	2.30	1.61
FEO	0.00	5.67	4.43
CAO	10.20	10.50	10.51
MGO	1.42	1.46	2.04
NA2O	1.35	1.39	2.52
K2O	8.95	9.22	11.00
TIO2	0.73	0.75	0.53
P2O5	0.42	0.43	0.34
MNO	0.11	0.11	0.09
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	7.39	0.00	0.00
TOTAL	97.11	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	6.85
AB	0.00
AN	19.79
LC	38.50
NE	7.55
KP	0.00
AC	0.00
DI	8.14
HE	14.74
EN	0.00
FS	0.00
FO	0.00
FA	0.00
WO	0.53
LN	0.00
MT	2.42
IL	1.06
CR	0.75
HM	0.00
AP	0.91
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.00
CPX	22.88
AB*	12.59

CLASSIFICATIONS AND INDICES

NA2O+K2O 10.61 SIO2 48.70 ALKALINE

OL* 0.00 NE*100.00 Q* 0.00 ALKALINE

CPX100.00 OL 0.00 OPX 0.00 ALKALINE

A 53.55 F 39.06 M 7.38 THOLEITIC

AL2O3 19.46 NORM PLAG 61.12 CALC-ALKALINE

AN 50.45 AB* 32.09 OR 17.47 SODIC

CI 26.36 NORM PLAG 61.12 BASALT

JENSEN THOLEIITIC RHYOLITE
AL 71.13 FE 22.11 MG 6.76

COLOR INDEX : 26.36
HASHIMOTO INDEX : 47.31

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB 100.00:SR 640.00:Y 10.00:ZR 40.00:NB 30.00:BA 830.00:

COMMENTS : PS130/88NE. DACITIC TUFF, MODERATELY FISSILE, PALE TO LT. GREEN, FINE GRAINED, HIGHLY EFFERVESCENT ACRYSTALLINE, (QUARTZ-CALCITE-CHLORITE SCHIST).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
10:28:54

SAMPLE ID # AB15527 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86116DM062B PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431050.0 N : 5417850.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,LITHIC,PUMICEOUS ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 30-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUN-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	50.40	53.27	49.29
AL2O3	16.90	17.86	19.48
FE2O3	8.21	2.37	1.65
FEO	0.00	5.68	4.39
CAO	9.41	9.95	9.86
MGO	4.28	4.52	6.24
NA2O	3.29	3.48	6.24
K2O	1.56	1.65	1.95
TIO2	0.74	0.78	0.54
P2O5	0.28	0.30	0.23
MNO	0.13	0.14	0.11
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.16	0.00	0.00
TOTAL	94.61	100.00	100.00

NORMS	
Q	0.24
C	0.00
OR	9.74
AB	31.19
AN	28.24
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	10.19
HE	5.11
EN	7.38
FS	3.70
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.47
IL	1.09
CR	0.01
HM	0.00
AP	0.62
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	11.08
CPX	15.31
AB*	31.19

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.13 SIO2 53.27 SUBALKALINE

OL* 19.55 NE* 44.02 Q* 36.43 SUBALKALINE

CPX 58.00 OL 0.00 OPX 42.00 ALKALINE

A 29.36 F 44.72 M 25.91 THOLEITIC

AL2O3 17.86 NORM PLAG 47.52 CALC-ALKALINE

AN 40.82 AB* 45.09 OR 14.08 AVERAGE SERIES

CI 29.95 NORM PLAG 47.52 BASALT

JENSEN CALC-ALKALINE ANDESITE
AL 60.10 FE 20.65 MG 19.25

COLOR INDEX : 29.95
HASHIMOTO INDEX : 31.50

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 20.00:SR 770.00:Y 20.00:ZR 50.00:NB 10.00:BA 790.00:

COMMENTS : PS130/74NE. DACITIC LAPILLI-TUFF. FINE GRAINED, LT. GREEN MATRIX (90-95%). RANDOMLY DIST. THROUGHOUT AND FLATTENED IN

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:29:34

SAMPLE ID # AB15528 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86116DM063 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431120.0 N : 5417900.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,TECTONIZED,VARIOLITIC,MAFIC PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 30-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUN-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.70	48.45	44.87
AL203	14.20	15.05	16.43
FE203	12.00	2.39	1.66
FEO	0.00	9.30	7.20
CAO	9.33	9.89	9.81
MGO	9.88	10.47	14.46
NA2O	1.54	1.63	2.93
K2O	1.19	1.26	1.49
TIO2	0.75	0.80	0.55
P2O5	0.50	0.53	0.42
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.77	0.00	0.00
TOTAL	94.32	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	7.46
AB	14.66
AN	30.02
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	8.82
HE	3.64
EN	13.31
FS	5.50
FO	8.39
FA	3.47
WO	0.00
LN	0.00
MT	2.49
IL	1.11
CR	0.02
HM	0.00
AP	1.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	11.86
OPX	18.80
CPX	12.46
AB*	14.66

CLASSIFICATIONS AND INDICES

NA20+K20 2.89 SIO2 48.45 SUBALKALINE
OL* 57.29 NE* 19.40 Q* 23.31 SUBALKALINE
CPX 28.90 OL 27.50 OPX 43.60 SUBALKALINE
A 11.66 F 46.13 M 42.21 THOLEITIC
AL203 15.05 NORM PLAG 67.20 THOLEITIC
AN 57.58 AB* 28.11 OR 14.31 AVERAGE SERIES
CI 46.73 NORM PLAG 67.20 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 40.61 FE 23.67 MG 35.72

COLOR INDEX : 46.73
HASHIMOTO INDEX : 50.46

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	SR	Y	ZR	NB	BA	
50.00:	770.00:	20.00:	60.00:	40.00:	670.00:	

COMMENTS : PS144/86NE. AS DESCRIBED AB15527 BUT MORE SCHISTOSE, MAFIC. FRESH SURFACE MED. TO DK. GREEN, FINE GRAINED, HIGHLY SCHISTOSE, HIGHLY CHLORITIC. GREENISH-WHITE CLASTS (2 X 5CM, <7%), SUBHEDRAL EQUANT FELD. (1MM,15%). POSS. SPHER. FLOW

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
10:30:15

SAMPLE ID # AB15529 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116DM069 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430050.0 N : 5417250.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 02-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.40	74.80	70.80
AL2O3	13.60	14.05	15.68
FE2O3	2.18	1.75	1.24
FEO	0.00	0.46	0.36
CAO	2.07	2.14	2.17
MGO	1.12	1.16	1.63
NA2O	2.22	2.29	4.21
K2O	2.94	3.04	3.67
TIO2	0.19	0.20	0.14
P2O5	0.05	0.05	0.04
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.30	0.00	0.00
TOTAL	96.78	99.00	99.00

NORMS	
Q	41.17
C	3.60
OR	18.36
AB	21.04
AN	10.50
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.26
FS	0.31
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.87
IL	0.28
CR	0.75
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.58
CPX	0.00
AB*	21.04

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.33 SIO2 74.80 SUBALKALINE

OL* 4.08 NE* 19.19 Q* 76.73 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 62.61 F 23.80 M 13.59 CALC-ALKALINE

AL2O3 14.05 NORM PLAG 33.29 THOLEITIC

AN 21.04 AB* 42.17 OR 36.79 K-RICH SERIES

CI 5.72 NORM PLAG 33.29 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.03 FE 9.43 MG 8.54

COLOR INDEX : 5.72
HASHIMOTO INDEX : 48.62

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 90.00:SR 80.00:Y -10.00:ZR 80.00:NB 10.00:BA 1060.00:

COMMENTS : PS110/82NE. QTZ-SERICITE-CHLORITE SCHIST. FINE GRAINED, FISSILE, AGGREGATE OF CHLORITE-SERICITE, >90%. QTZ. EYES ALWAYS PRESENT BUT VARY IN SIZE AND QUANTITY. IN SCHISTOSE PHASES (<3%,<1MM), IN MORE MASSIVE PHASES (<7%,2 X 3MM).

REPORT #2000

SAMPLE ID # AB15530

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 | FIELD NUMBER : 86116DM070 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 430050.0 N : 5417250.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,TECTONIZED,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 02-JUN-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 25-JUN-86 | TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	44.70	49.39	46.67
AL2O3	13.70	15.14	16.86
FE2O3	12.80	3.50	2.49
FEO	0.00	9.58	7.57
CAO	10.10	11.16	11.30
MGO	6.27	6.93	9.76
NA2O	1.80	1.99	3.64
K2O	0.08	0.09	0.11
TIO2	1.67	1.85	1.31
P2O5	0.14	0.15	0.12
MNO	0.20	0.22	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	8.85	0.00	0.00
TOTAL	90.49	99.00	99.00

NORMS	
Q	2.33
C	0.00
OR	0.53
AB	18.22
AN	32.77
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	11.47
HE	6.68
EN	13.78
FS	8.03
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.74
IL	2.62
CR	0.75
HM	0.00
AP	0.33
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	21.81
CPX	18.15
AB*	18.22

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.08 SIO2 49.39 SUBALKALINE
OL* 38.62 NE* 25.81 Q* 35.58 SUBALKALINE
CPX 45.42 OL 0.00 OPX 54.58 SUBALKALINE
A 9.56 F 58.56 M 31.88 THOLEITIC
AL2O3 15.14 NORM PLAG 64.27 THOLEITIC
AN 63.61 AB* 35.36 OR 1.04 K-POOR SERIES
CI 46.32 NORM PLAG 64.27 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 44.18 FE 30.25 MG 25.57

COLOR INDEX : 46.32
HASHIMOTO INDEX : 34.79

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 20.00:SR 220.00:Y 10.00:ZR 90.00:NB 20.00:BA 80.00:

COMMENTS : PA123/68SW. CALCITE-CHLORITE SCHIST (LIKE DM068). DK. GREEN, FINE GR., GOOD SCHISTOSITY. RANDOMLY DIST., FINE GR. CALCITE (10%) IN DOMINANTLY CHLORITIC GROUNDMASS. EUHEDRAL, YELLOW-GREEN, SAUSSERITIZED FELD. GRAINS (1-2CM, <7%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:31:36

SAMPLE ID # AB15531 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116DM068 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430170.0 N : 5417445.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,APHYRIC,TECTONIZED,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 02-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.80	54.22	52.40
AL2O3	14.50	15.18	17.29
FE2O3	13.10	3.45	2.51
FEO	0.00	9.23	7.46
CAO	9.53	9.98	10.33
MGO	5.01	5.24	7.55
NA2O	0.38	0.40	0.75
K2O	0.03	0.03	0.04
TIO2	1.80	1.88	1.37
P2O5	0.15	0.16	0.13
MNO	0.21	0.22	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.85	0.00	0.00
TOTAL	95.52	99.00	99.00

NORMS	
Q	18.61
C	0.00
OR	0.19
AB	3.73
AN	41.26
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	4.31
HE	3.14
EN	12.95
FS	9.46
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.77
IL	2.74
CR	0.75
HM	0.00
AP	0.34
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	22.41
CPX	7.45
AB*	3.73

CLASSIFICATIONS AND INDICES

NA2O+K2O 0.43 SIO2 54.22 SUBALKALINE
OL* 37.56 NE* 5.00 Q* 57.44 SUBALKALINE
CPX 24.95 OL 0.00 OPX 75.05 SUBALKALINE
A 2.38 F 68.50 M 29.12 THOLEITIC
AL2O3 15.18 NORM PLAG 91.72 THOLEITIC
AN 91.32 AB* 8.25 OR 0.43 K-RICH SERIES
CI 36.37 NORM PLAG 91.72 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 47.54 FE 31.68 MG 20.77

COLOR INDEX : 36.37
HASHIMOTO INDEX : 33.71

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 10.00:SR 590.00:Y 20.00:ZR 100.00:NB 30.00:BA 60.00:

COMMENTS : PA097/69NE. CHLORITE SCHIST. CHLORITE (90%). MODERATELY SCHISTOSE. POSSIBLE BASALT FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:32:16

SAMPLE ID # AB15532 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86116DM081 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 430300.0 N : 5417280.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 07-JUN-86
ANALYZED BY : XRAL DATE : 25-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	75.50	76.90	72.79
AL203	13.50	13.75	15.34
FE203	3.02	1.80	1.28
FEO	0.00	1.15	0.91
CAO	0.31	0.32	0.32
MGO	0.47	0.48	0.68
NA20	3.26	3.32	6.09
K20	1.86	1.89	2.29
TI02	0.27	0.27	0.20
P205	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	98.17	99.00	99.00

NORMS	
Q	45.87
C	6.48
OR	11.45
AB	30.47
AN	1.19
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.35
FS	1.24
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.93
IL	0.39
CR	0.75
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.59
CPX	0.00
AB*	30.47

CLASSIFICATIONS AND INDICES

NA20+K20 5.21 SI02 76.90 SUBALKALINE

OL* 2.46 NE* 23.16 Q* 74.38 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 61.63 F 32.71 M 5.66 THOLEITIC

AL203 13.75 NORM PLAG 3.77 CALC-ALKALINE

AN 2.77 AB* 70.67 OR 26.56 K-RICH SERIES

CI 4.90 NORM PLAG 3.77 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.14 FE 13.20 MG 3.66

COLOR INDEX : 4.90
HASHIMOTO INDEX : 39.49

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 50.00:SR 80.00:Y -10.00:ZR 110.00:NB 10.00:BA 1040.00:

COMMENTS : PS118/80NE. QTZ. CRYSTAL ANDESITE TO DACITE TUFF. APHANITIC CRYSTALLINITY, PALE SILVER-GREEN MATRIX, QTZ-SERICITE-CHLORITE AGGREGATE (>90%). ELLIPTICAL QTZ-EYES (1-2MM,<7%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:32:57

SAMPLE ID # AB15533 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116DM084 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430580.0 N : 5417740.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE ,MAFIC PORPHYRITIC ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 07-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.20	48.86	45.15
AL2O3	18.30	19.35	21.08
FE2O3	11.90	2.50	1.74
FEO	0.00	9.08	7.02
CAO	7.41	7.84	7.76
MGO	6.20	6.56	9.03
NA2O	3.10	3.28	5.87
K2O	1.08	1.14	1.35
TIO2	0.86	0.91	0.63
P2O5	0.26	0.27	0.22
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.77	0.00	0.00
TOTAL	94.54	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	6.74
AB	29.37
AN	34.64
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	1.12
HE	0.77
EN	3.12
FS	2.14
FO	10.78
FA	7.38
WO	0.00
LN	0.00
MT	2.60
IL	1.26
CR	0.75
HM	0.00
AP	0.57
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	18.16
OPX	5.26
CPX	1.88
AB*	29.37

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.42 SIO2 48.86 ALKALINE
OL* 41.88 NE* 33.38 Q* 24.74 SUBALKALINE
CPX 7.44 OL 71.77 OPX 20.79 SUBALKALINE
A 19.82 F 50.78 M 29.40 THOLEITIC
AL2O3 19.35 NORM PLAG 54.12 CALC-ALKALINE
AN 48.97 AB* 41.51 OR 9.53 SODIC
CI 29.18 NORM PLAG 54.12 BASALT

JENSEN CALC-ALKALINE BASALT
AL 53.15 FE 24.08 MG 22.77

COLOR INDEX : 29.18
HASHIMOTO INDEX : 40.92

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB 30.00:SR 650.00:Y -10.00:ZR 40.00:NB 20.00:BA 530.00:

COMMENTS : PS133/87SW. FINE GRAINED, MASSIVE, MED. GREEN, MODERATELY CHLORITIC ANDESITIC COMP. NEEDLE-LIKE CHLORITIZED AMPHIBOLE GRAINES (4 X 1MM, (10%). POSSIBLE FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:33:37

SAMPLE ID # AB15534 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116DM093 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430830.0 N : 5417780.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,PUMICEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 07-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.90	55.48	51.32
AL2O3	17.50	18.35	20.01
FE2O3	9.54	2.31	1.61
FEO	0.00	6.93	5.36
CAO	5.83	6.11	6.06
MGO	4.40	4.61	6.36
NA2O	3.93	4.12	7.39
K2O	0.76	0.80	0.94
TIO2	0.70	0.73	0.51
P2O5	0.31	0.33	0.25
MNO	0.22	0.23	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.00	0.00	0.00
TOTAL	95.34	99.00	99.00

NORMS	
Q	3.96
C	0.41
OR	4.71
AB	36.96
AN	28.18
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	12.72
FS	9.45
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.41
IL	1.02
CR	0.75
HM	0.00
AP	0.68
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	22.17
CPX	0.00
AB*	36.96

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.92 SIO2 55.48 SUBALKALINE
OL* 26.36 NE* 35.14 Q* 38.50 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 26.54 F 48.57 M 24.90 THOLEITIC
AL2O3 18.35 NORM PLAG 43.26 CALC-ALKALINE
AN 40.34 AB* 52.92 OR 6.74 AVERAGE SERIES
CI 25.61 NORM PLAG 43.26 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 58.81 FE 22.50 MG 18.69

COLOR INDEX : 25.61
HASHIMOTO INDEX : 34.58

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	SR	Y	ZR	NB	BA
30.00:	720.00:	20.00:	60.00:	30.00:	1030.00:

COMMENTS : PS141/86NE. FINE TO MED. GRAINED, MED. TO DK. GREEN, MODERATELY CHLORITIC ANDESITIC. SUBTLE GREENISH-WHITE BANDING, UP TO 1CM THICK. POSSIBLE LAPILLI OF FELSIC COMP. (<10%). MATRIX FINE GRAINED, ANHEDRAL FELD. IN ACTINOLITE-CHLORITE.

SAMPLE ID # AB15535 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116DM095 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430765.0 N : 5417665.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 07-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86 — ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.90	48.09	44.33
AL2O3	14.40	15.09	16.39
FE2O3	11.40	2.31	1.60
FEO	0.00	8.67	6.69
CAO	10.40	10.90	10.76
MGO	10.90	11.42	15.69
NA2O	1.44	1.51	2.70
K2O	0.84	0.88	1.04
TIO2	0.70	0.73	0.51
P2O5	0.18	0.19	0.15
MNO	0.20	0.21	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.47	0.00	0.00
TOTAL	95.43	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	5.18
AB	13.48
AN	31.65
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	12.09
HE	4.66
EN	9.61
FS	3.70
FO	11.79
FA	4.54
WO	0.00
LN	0.00
MT	2.40
IL	1.02
CR	0.75
HM	0.00
AP	0.39
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	16.33
OPX	13.31
CPX	16.74
AB*	13.48

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.39 SIO2 48.09 SUBALKALINE
OL* 61.02 NE* 18.76 Q* 20.22 SUBALKALINE
CPX 36.10 OL 35.21 OPX 28.69 SUBALKALINE
A 9.73 F 43.77 M 46.51 THOLEITIC
AL2O3 15.09 NORM PLAG 70.13 THOLEITIC
AN 62.91 AB* 26.79 OR 10.30 AVERAGE SERIES
CI 49.80 NORM PLAG 70.13 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 39.94 FE 21.83 MG 38.23

COLOR INDEX : 49.80
HASHIMOTO INDEX : 49.79

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 10.00:SR 410.00:Y 10.00:ZR 20.00:NB 10.00:BA 450.00:

COMMENTS : MODERATELY ALTERED LAPILLI TUFF. MATRIX IS FINE GRAINED, LT. GREEN, ANDESITIC COMP. (70%). RANDOMLY DIST. THROUGHOUT ARE CHLORITIZED, MAFIC FRAGS/HORNBLENDE CRYSTALS (<2CM, MEAN 1CM, 10%), YELLOW-WHITE FELDSPARS (1-4MM, 10%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:34:59

SAMPLE ID # AB15536 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613 — FIELD NUMBER : 86116DM098 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 432290.0 N : 5417290.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 09-JUN-86
ANALYZED BY : XRAL — DATE : 06-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	51.90	55.06	51.34
AL203	15.90	16.87	18.54
FE203	11.70	2.30	1.62
FEO	0.00	9.10	7.09
CAO	3.37	3.58	3.57
MGO	7.08	7.51	10.44
NA2O	1.91	2.03	3.66
K2O	2.34	2.48	2.96
TI02	0.67	0.71	0.50
P205	0.18	0.19	0.15
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.31	0.00	0.00
TOTAL	94.27	100.00	100.00

NORMS	
Q	8.47
C	5.28
OR	14.78
AB	18.31
AN	16.60
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	20.87
FS	11.86
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.42
IL	1.00
CR	0.00
HM	0.00
AP	0.40
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	32.73
CPX	0.00
AB*	18.31

CLASSIFICATIONS AND INDICES

NA20+K20 4.51 SI02 55.06 SUBALKALINE
OL* 41.25 NE* 18.46 Q* 40.29 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 19.44 F 48.16 M 32.39 THOLEITIC
AL203 16.87 NORM PLAG 47.55 CALC-ALKALINE
AN 33.40 AB* 36.85 OR 29.74 K-RICH SERIES
CI 36.15 NORM PLAG 47.55 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 48.37 FE 24.40 MG 27.23

COLOR INDEX : 36.15
HASHIMOTO INDEX : 64.08

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	250.00:RB	70.00:SR	390.00:Y	-10.00:ZR	10.00:NB	30.00:BA	670.00:AU	10.00:LI	40.00:
BE	-10.00:B	10.00:SC	48.60:V	250.00:MN	0.00:CO	39.00:NI	66.00:CU	60.00:ZN	100.00:
GE	-10.00:AS	2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	2.60:
LA	16.40:CE	28.00:ND	13.00:SM	3.50:EU	0.90:YB	1.50:LU	0.28:HF	2.00:TA	-1.00:
W	-3.00:PB	2.00:BI	-0.50:TH	2.10:U	2.30:				

COMMENTS : PS135/62NE. EXTREMELY SCHISTOSE, FINE GRAINED, GREY-MAUVE COLOUR WITH RANDOMLY DIST. CHLORITE-RICH SPOTS (1CM,<25%). HEMATITE-RICH CHLORITE SCHIST (?). TOP OF MYRA FORMATION?

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:35:42

SAMPLE ID # AB15537

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM099
LOT : 0 CONCESSION :
GRID COORDINATES : E : 431550.0 N : 5417560.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,TECTONIZED,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 09-JUN-86
DATE : 16-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	54.10	56.20	53.01
AL2O3	18.10	18.80	20.90
FE2O3	9.49	2.30	1.63
FEO	0.00	6.81	5.37
CAO	8.07	8.38	8.47
MGO	3.06	3.18	4.47
NA2O	2.35	2.44	4.46
K2O	0.58	0.60	0.73
TIO2	0.71	0.74	0.52
P2O5	0.38	0.39	0.32
MNO	0.15	0.16	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.93	0.00	0.00
TOTAL	96.26	100.00	100.00

NORMS	
Q	13.01
C	0.00
OR	3.63
AB	22.32
AN	39.28
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.18
HE	0.17
EN	8.84
FS	8.22
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.44
IL	1.05
CR	0.00
HM	0.00
AP	0.84
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	17.07
CPX	0.36
AB*	22.32

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.04 SIO2 56.20 SUBALKALINE

OL* 24.43 NE* 25.56 Q* 50.01 SUBALKALINE

CPX 2.04 OL 0.00 OPX 97.96 SUBALKALINE

A 20.17 F 58.77 M 21.06 THOLEITIC

AL2O3 18.80 NORM PLAG 63.77 CALC-ALKALINE

AN 60.22 AB* 34.22 OR 5.56 AVERAGE SERIES

CI 20.91 NORM PLAG 63.77 BASALT

JENSEN CALC-ALKALINE ANDESITE
AL 63.31 FE 23.15 MG 13.53

COLOR INDEX : 20.91
HASHIMOTO INDEX : 25.89

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 90.00:RB 20.00:SR 1550.00:Y 30.00:ZR 60.00:NB 20.00:BA 440.00:

COMMENTS : PS123/82NE. ANDESITIC LAPILLI TUFF. DISTINCTIVE BANDED APPEARANCE, ALTERNATING BETWEEN MED. TO LT. GREEN AND CREAM-WHITE, LATTER FINITE LENGTHS (4 X 0.5CM,25-30%). RAND. DIST. IN FINE GR., LT. GREEN GROUNDMASS, >60%, CHL-SERI. RICH.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:36:23

SAMPLE ID # AB15538 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM100 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431330.0 N : 5417765.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 09-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	61.30	63.50	58.25	Q	11.87
AL2O3	17.90	18.54	20.05	C	4.05
FE2O3	5.71	1.99	1.37	OR	15.47
FEO	0.00	3.53	2.71	AB	50.94
CAO	1.69	1.75	1.72	AN	6.79
MGO	1.40	1.45	1.98	LC	0.00
NA2O	5.53	5.73	10.19	NE	0.00
K2O	2.55	2.64	3.09	KP	0.00
TIO2	0.42	0.44	0.30	AC	0.00
P2O5	0.27	0.28	0.22	DI	0.00
MNO	0.14	0.15	0.11	HE	0.00
S	0.00	0.00	0.00	EN	3.97
NIO	0.00	0.00	0.00	FS	3.67
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.70	0.00	0.00	MT	2.06
				IL	0.60
TOTAL	96.53	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.58
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	7.64
				CPX	0.00
				AB*	50.94

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.37 SIO2 63.50 SUBALKALINE
OL* 8.13 NE* 43.39 Q* 48.48 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 55.27 F 35.15 M 9.58 THOLEITIC
AL2O3 18.54 NORM PLAG 11.76 CALC-ALKALINE
AN 9.28 AB* 69.59 OR 21.14 AVERAGE SERIES
CI 10.30 NORM PLAG 11.76 DACITE

JENSEN CALC-ALKALINE DACITE
AL 75.58 FE 16.95 MG 7.47

COLOR INDEX : 10.30
HASHIMOTO INDEX : 35.36

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	RB	SR	Y	ZR	NB	BA	
	10.00:	80.00:	640.00:	20.00:	100.00:	20.00:	890.00:

COMMENTS : PS130/87NE. MAFIC TUFF? ANDESITIC TO BASALTIC-ANDESITE IN COMP. DK. GREEN, SLIGHTLY CHLORITIZED MATRIX >95%. RANDOMLY DIST. THROUGHOUT, GREENISH-WHITE PLAGIOCLASE GRAINS (<1MM, <5%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:37:03

SAMPLE ID # AB15539

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM102
LOT : 0 CONCESSION :
GRID COORDINATES : E : 431575.0 N : 5417980.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : SEDIMENTARY ,CHERT ,CLAY,MASSIVE.
FINAL NAME :
ALTERATION : NOT VISIBLE ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRRHOTITE.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 09-JUN-86
DATE : 06-AUG-86

ANALYTICAL
TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	66.00	69.37	66.69
AL203	14.90	15.66	17.75
FE203	7.13	2.33	1.69
FEO	0.00	4.64	3.73
CAO	1.28	1.35	1.39
MGO	1.41	1.48	2.12
NA20	1.10	1.16	2.15
K20	2.97	3.12	3.83
TI02	0.72	0.76	0.55
P205	0.07	0.07	0.06
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	3.62	0.00	0.00
TOTAL	95.14	100.00	100.00

NORMS	
Q	41.64
C	9.19
OR	19.16
AB	10.77
AN	6.43
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.25
FS	4.77
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.53
IL	1.09
CR	0.00
HM	0.00
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	9.02
CPX	0.00
AB*	10.77

CLASSIFICATIONS AND INDICES

NA20+K20 4.28 SI02 69.37 SUBALKALINE
OL* 11.01 NE* 10.52 Q* 78.47 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 34.21 F 53.93 M 11.85 THOLEITIC
AL203 15.66 NORM PLAG 37.37 CALC-ALKALINE
AN 17.68 AB* 29.63 OR 52.70 K-RICH SERIES
CI 12.64 NORM PLAG 37.37 ANDESITE

JENSEN THOLEIITIC DACITE
AL 68.57 FE 23.23 MG 8.20

COLOR INDEX : 12.64
HASHIMOTO INDEX : 64.79

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	30.00:RB	90.00:SR	280.00:Y	10.00:ZR	50.00:NB	10.00:BA	1120.00:AU	10.00:LI	-10.00:
BE	-10.00:B	30.00:SC	27.00:V	200.00:MN	410.00:CO	14.00:NI	15.00:CU	190.00:ZN	43.00:
GE	-10.00:AS	-2.00:SE	-4.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.20:CS	2.00:
LA	6.10:CE	13.00:ND	10.00:SM	1.80:EU	0.40:YB	1.30:LU	0.24:HF	2.00:TA	-1.00:
W	-3.00:PB	-2.00:BI	1.00:TH	1.30:U	2.40:				

COMMENTS : PC160/90. GREY-GREEN CHERT, HOMOGENOUS, MASSIVE, RANDOMLY DIST. THROUGHOUT ARE GREY-GREEN, VITREOUS QTZ. GRAINS, CLASTIC IN NATURE, <1MM, <4%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:37:46

SAMPLE ID # AB15540 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM103 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431280.0 N : 5417780.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 10-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.60	52.37	49.49
AL2O3	17.80	18.79	20.93
FE2O3	12.60	2.49	1.77
FEO	0.00	9.73	7.69
CAO	6.64	7.01	7.10
MGO	4.92	5.19	7.32
NA2O	1.59	1.68	3.08
K2O	1.21	1.28	1.54
TIO2	0.86	0.91	0.65
P2O5	0.33	0.35	0.28
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.93	0.00	0.00
TOTAL	94.71	100.00	100.00

NORMS	
Q	8.74
C	3.05
OR	7.71
AB	15.38
AN	33.17
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	14.63
FS	12.64
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.66
IL	1.29
CR	0.00
HM	0.00
AP	0.74
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	27.27
CPX	0.00
AB*	15.38

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.96 SIO2 52.37 SUBALKALINE
OL* 39.80 NE* 17.96 Q* 42.24 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 14.69 F 59.49 M 25.82 THOLEITIC
AL2O3 18.79 NORM PLAG 68.32 CALC-ALKALINE
AN 58.96 AB* 27.34 OR 13.70 AVERAGE SERIES
CI 31.22 NORM PLAG 68.32 BASALT

JENSEN CALC-ALKALINE BASALT
AL 54.35 FE 26.66 MG 18.99

COLOR INDEX : 31.22
HASHIMOTO INDEX : 42.69

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 40.00:RB	20.00:SR	600.00:Y	30.00:ZR	40.00:NB	10.00:BA	330.00:

COMMENTS : PS128/70NE. ANDESITIC TUFF. FINE GRAINED, LT. TO MED. GREEN. SLIGHT FOLIATION.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:38:27

SAMPLE ID # AB15541 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613 — FIELD NUMBER : 86116DM105 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430860.0 N : 5418050.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,SPHERULITIC ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 10-JUN-86
ANALYZED BY : XRAL — DATE : 06-AUG-86
ANALYTICAL TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.90	52.17	47.79
AL2O3	16.80	17.92	19.35
FE2O3	9.69	2.54	1.75
FEO	0.00	7.02	5.38
CAO	5.28	5.63	5.53
MGO	6.55	6.99	9.54
NA2O	3.54	3.78	6.71
K2O	2.32	2.48	2.90
TIO2	0.88	0.94	0.65
P2O5	0.33	0.35	0.27
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.31	0.00	0.00
TOTAL	93.73	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	14.48
AB	33.54
AN	24.37
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.56
HE	0.23
EN	6.11
FS	2.56
FO	9.52
FA	3.99
WO	0.00
LN	0.00
MT	2.63
IL	1.29
CR	0.00
HM	0.00
AP	0.73
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	13.50
OPX	8.67
CPX	0.79
AB*	33.54

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.25 SIO2 52.17 ALKALINE
OL* 35.91 NE* 36.12 Q* 27.97 SUBALKALINE
CPX 3.45 OL 58.81 OPX 37.74 SUBALKALINE
A 27.73 F 41.27 M 31.00 THOLEITIC
AL2O3 17.92 NORM PLAG 42.09 CALC-ALKALINE
AN 33.67 AB* 46.33 OR 20.00 SODIC
CI 26.88 NORM PLAG 42.09 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 52.58 FE 21.50 MG 25.92

COLOR INDEX : 26.88
HASHIMOTO INDEX : 50.14

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	30.00:RB	40.00:SR	490.00:Y	20.00:ZR	50.00:NB	20.00:BA	750.00:AU	-10.00:LI	10.00:
BE	-10.00:B	10.00:SC	30.20:V	340.00:MN	0.00:CO	34.00:NI	25.00:CU	140.00:ZN	100.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	-2.00:MO	5.00:AG	-0.50:CD	-0.20:SB	-0.30:CS	9.80:
LA	23.30:CE	38.00:ND	15.00:SM	4.20:EU	1.50:YB	2.50:LU	0.27:HF	4.00:TA	-4.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	1.50:U	0.80:				

COMMENTS : PS135/83SW. PISOLITIC/SPHERULITIC TYPE O/C. 3MM DIAMETER, SPHERICAL, WHITE, PEA-SHAPED FELDSPARS WITH EPIDOTE CORES (<7%). LT. BLUISH-GREEN, FINE GRAINED MATRIX, <90%, ANDESITIC COMPOSITION.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:39:10

SAMPLE ID # AB15542

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM115
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430910.0 N : 5418260.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : SEDIMENTARY ,CHERT ,CLAY,MASSIVE.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRRHOTITE.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 10-JUN-86
DATE : 06-AUG-86

ANALYTICAL
TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	61.00	63.62	59.30
AL2O3	18.60	19.40	21.31
FE2O3	4.77	2.38	1.67
FEO	0.00	2.34	1.82
CAO	3.47	3.62	3.61
MGO	3.07	3.20	4.45
NA2O	2.89	3.01	5.45
K2O	1.31	1.37	1.63
TIO2	0.78	0.81	0.57
P2O5	0.16	0.17	0.13
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.31	0.00	0.00
TOTAL	95.88	100.00	100.00

NORMS	
Q	26.36
C	7.45
OR	8.13
AB	27.23
AN	16.97
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	8.90
FS	0.97
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.50
IL	1.14
CR	0.00
HM	0.00
AP	0.35
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	9.86
CPX	0.00
AB*	27.23

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.38 SIO2 63.62 SUBALKALINE

OL* 11.66 NE* 25.75 Q* 62.59 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 36.33 F 37.12 M 26.55 THOLEITIC

AL2O3 19.40 NORM PLAG 38.39 CALC-ALKALINE

AN 32.43 AB* 52.03 OR 15.54 AVERAGE SERIES

CI 13.50 NORM PLAG 38.39 ANDESITE

JENSEN CALC-ALKALINE DACITE
AL 71.31 FE 13.80 MG 14.88

COLOR INDEX : 13.50
HASHIMOTO INDEX : 40.78

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	70.00:RB	30.00:SR	540.00:Y	10.00:ZR	50.00:NB	20.00:BA	940.00:AU	-10.00:LI	10.00:
BE	-10.00:B	30.00:SC	23.10:V	140.00:MN	580.00:CO	7.00:NI	10.00:CU	68.00:ZN	93.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	-2.10:
LA	10.30:CE	23.00:ND	7.00:SM	2.70:EU	0.70:YB	1.70:LU	0.35:HF	2.00:TA	-1.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	1.80:U	1.40:				

COMMENTS : PS125/82NE. COMPARE TO AB15539. CHERT, WHITE-BLUE IN COLOUR, PYRRHOTITE DISSEMINATIONS, <2%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:39:53

SAMPLE ID # AB15543

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM118
LOT : 0 CONCESSION :

GRID COORDINATES : E : 429545.0 N : 5417400.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : METAMORPHIC ,FELSIC,FINE,WHITE MICA,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 17-JUN-86
DATE : 06-AUG-86

ANALYTICAL
TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.20	77.75	72.92
AL2O3	13.60	13.88	15.34
FE2O3	0.87	0.89	0.63
FEO	0.00	0.00	0.00
CAO	0.57	0.58	0.58
MGO	0.33	0.34	0.47
NA2O	3.64	3.71	6.75
K2O	2.56	2.61	3.13
TIO2	0.16	0.16	0.12
P2O5	0.05	0.05	0.04
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.77	0.00	0.00
TOTAL	98.01	100.00	100.00

NORMS	
Q	41.77
C	4.42
OR	15.64
AB	33.76
AN	2.58
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.94
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.05
CR	0.00
HM	0.63
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.09
AG	0.00
OL	0.00
OPX	0.94
CPX	0.00
AB*	33.76

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.33 SIO2 77.75 SUBALKALINE

OL* 0.92 NE* 26.49 Q* 72.59 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 84.78 F 10.70 M 4.51 CALC-ALKALINE

AL2O3 13.88 NORM PLAG 7.11 CALC-ALKALINE

AN 4.97 AB* 64.94 OR 30.09 K-RICH SERIES

CI 1.62 NORM PLAG 7.11 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 92.54 FE 4.62 MG 2.84

COLOR INDEX : 1.62
HASHIMOTO INDEX : 40.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	70.00:SR	220.00:Y	10.00:ZR	80.00:NB	10.00:BA	880.00:AU	-10.00:LI	-10.00:
BE	-10.00:B	40.00:SC	1.90:V	10.00:MN	170.00:CO	2.00:NI	3.00:CU	2.50:ZN	26.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	3.30:
LA	18.50:CE	23.00:ND	8.00:SM	1.60:EU	0.80:YB	1.40:LU	0.34:HF	3.00:TA	-1.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	4.60:U	2.30:				

COMMENTS : PS118/82NE. EXTREMELY SCHISTOSE SERICITE-SCHIST. DCP ANALYSIS ALSO PERFORMED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:40:36

SAMPLE ID # AB15544 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM122 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 428955.0 N : 5418115.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 17-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.60	73.26	69.72
AL2O3	17.20	17.85	20.02
FE2O3	2.44	1.88	1.35
FEO	0.00	0.59	0.47
CAO	0.12	0.12	0.13
MGO	1.53	1.59	2.25
NA2O	0.83	0.86	1.59
K2O	3.30	3.42	4.16
TIO2	0.31	0.32	0.23
P2O5	0.07	0.07	0.06
MNO	0.03	0.03	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.08	0.00	0.00
TOTAL	96.37	100.00	100.00

NORMS	
Q	50.16
C	14.21
OR	20.81
AB	7.95
AN	0.15
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.50
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.79
IL	0.46
CR	0.00
HM	0.82
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.50
CPX	0.00
AB*	7.95

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.29 SIO2 73.26 SUBALKALINE

OL* 5.40 NE* 7.61 Q* 86.99 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 52.57 F 27.95 M 19.48 CALC-ALKALINE

AL2O3 17.85 NORM PLAG 1.81 CALC-ALKALINE

AN 0.51 AB* 27.49 OR 72.00 K-RICH SERIES

CI 6.57 NORM PLAG 1.81 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.25 FE 8.50 MG 9.25

COLOR INDEX : 6.57
HASHIMOTO INDEX : 83.56

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB	100.00:SR	220.00:Y	20.00:ZR	150.00:NB	10.00:BA	1400.00:

COMMENTS : PS128/86NE. INTERMEDIATE GRADATIONAL TO FELSIC COMP. TUFF. CHLORITE-SERICITE SCHIST. RANDOMLY DIST. THROUGHOUT. RARE VITREOUS, ELLIPTICAL QTZ. EYES, 1-1.5MM, <2%.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:41:17

SAMPLE ID # AB15545

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM125
LOT : 0 CONCESSION :
GRID COORDINATES : E : 428792.0 N : 5418319.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : IGNEOUS ,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 17-JUN-86
DATE : 06-AUG-86

ANALYTICAL
TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.70	50.26	46.85
AL2O3	20.10	21.18	23.27
FE2O3	12.90	2.64	1.86
FEO	0.00	9.85	7.68
CAO	6.86	7.23	7.22
MGO	2.69	2.83	3.94
NA2O	4.22	4.45	8.04
K2O	0.06	0.06	0.08
TIO2	1.01	1.06	0.75
P2O5	0.21	0.22	0.17
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.00	0.00	0.00
TOTAL	94.90	100.00	100.00

NORMS	
Q	0.00
C	1.30
OR	0.38
AB	40.18
AN	34.64
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.63
FS	8.81
FO	1.68
FA	2.64
WO	0.00
LN	0.00
MT	2.78
IL	1.49
CR	0.00
HM	0.00
AP	0.47
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	4.32
OPX	14.44
CPX	0.00
AB*	40.18

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.51 SIO2 50.26 SUBALKALINE

OL* 25.71 NE* 40.90 Q* 33.39 SUBALKALINE

CPX 0.00 OL 23.02 OPX 76.98 SUBALKALINE

A 23.04 F 62.48 M 14.48 THOLEITIC

AL2O3 21.18 NORM PLAG 46.30 CALC-ALKALINE

AN 46.07 AB* 53.43 OR 0.50 K-POOR SERIES

CI 23.04 NORM PLAG 46.30 ANDESITE

JENSEN THOLEIITIC DACITE
AL 61.81 FE 27.73 MG 10.46

COLOR INDEX : 23.04
HASHIMOTO INDEX : 19.88

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	30.00:SR	460.00:Y	-10.00:ZR	40.00:NB	20.00:BA	70.00:AU	-10.00:LI	-10.00:
BE	-10.00:B	10.00:SC	35.50:V	310.00:MN	0.00:CO	32.00:NI	20.00:CU	270.00:ZN	84.00:
GE	-10.00:AS	2.00:SE	-9.00:BR	-2.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.30:CS	-6.00:
LA	9.30:CE	15.00:ND	16.00:SM	3.00:EU	-1.20:YB	2.50:LU	0.47:HF	3.00:TA	-4.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	1.40:U	-0.90:				

COMMENTS : PS130/64SW. FINE GRAINED PHASE OF GABBRO. MASSIVE, FINE GRAINED, MODERATELY CHLORITIC, DK. GREEN IN COLOUR. FINE GREENISH-WHITE FELDSPAR PHENOCRYSTS, <1MM,<7%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15546 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613 FIELD NUMBER : 86116DM126 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428740.0 N : 5418389.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,MAFIC ,FINE,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 17-JUN-86
ANALYZED BY : XRAL DATE : 06-AUG-86
ANALYTICAL TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	53.80	55.92	52.35
AL2O3	17.60	18.29	20.19
FE2O3	10.70	2.44	1.72
FEO	0.00	7.81	6.11
CAO	6.85	7.12	7.14
MGO	3.18	3.31	4.61
NA2O	3.65	3.79	6.89
K2O	0.05	0.05	0.06
TIO2	0.85	0.88	0.62
P2O5	0.15	0.16	0.12
MNO	0.21	0.22	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.85	0.00	0.00
TOTAL	96.20	100.00	100.00

NORMS	
Q	8.54
C	0.00
OR	0.31
AB	34.43
AN	33.10
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.62
HE	0.65
EN	8.91
FS	9.29
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.58
IL	1.24
CR	0.00
HM	0.00
AP	0.33
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	18.20
CPX	1.27
AB*	34.43

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.85 SIO2 55.92 SUBALKALINE
OL* 22.32 NE* 33.77 Q* 43.91 SUBALKALINE
CPX 6.50 OL 0.00 OPX 93.50 SUBALKALINE
A 22.41 F 58.32 M 19.26 THOLEITIC
AL2O3 18.29 NORM PLAG 49.01 CALC-ALKALINE
AN 48.79 AB* 50.75 OR 0.46 K-POOR SERIES
CI 23.29 NORM PLAG 49.01 BASALT

JENSEN THOLEIITIC DACITE
AL 60.39 FE 25.82 MG 13.80

COLOR INDEX : 23.29
HASHIMOTO INDEX : 23.53

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	50.00:RB	10.00:SR	400.00:Y	-10.00:ZR	30.00:NB	10.00:BA	110.00:AU	-10.00:LI	-10.00:
BE	-10.00:B	20.00:SC	40.90:V	300.00:MN	0.00:CO	33.00:NI	25.00:CU	3.50:ZN	84.00:
GE	-10.00:AS	2.00:SE	-9.00:BR	3.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.30:CS	6.50:
LA	7.70:CE	13.00:ND	-6.00:SM	2.30:EU	1.50:YB	2.00:LU	0.39:HF	3.00:TA	-4.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	-0.50:U	0.70:				

COMMENTS : MASSIVE, FINE GRAINED GABBRO. GREEN MATRIX WITH RANDOMLY DIST. ANHEDRAL FELDSPAR PHENOCRYSTS (1-3MM,<15%).
DCP ANALYSIS ALSO PERFORMED.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:42:43

SAMPLE ID # AB15547 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM127C — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 429470.0 N : 5418450.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 18-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.90	48.77	44.97
AL2O3	18.30	19.45	21.13
FE2O3	12.20	2.44	1.70
FEO	0.00	9.47	7.30
CAO	6.55	6.96	6.88
MGO	6.16	6.55	8.99
NA2O	3.37	3.58	6.40
K2O	1.28	1.36	1.60
TIO2	0.80	0.85	0.59
P2O5	0.36	0.38	0.30
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.93	0.00	0.00
TOTAL	94.11	100.00	100.00

NORMS	
Q	0.00
C	0.38
OR	8.01
AB	32.00
AN	31.88
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.69
FS	1.13
FO	12.22
FA	8.17
WO	0.00
LN	0.00
MT	2.54
IL	1.18
CR	0.00
HM	0.00
AP	0.80
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	20.39
OPX	2.82
CPX	0.00
AB*	32.00

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.94 SIO2 48.77 ALKALINE
OL* 40.76 NE* 34.78 Q* 24.46 SUBALKALINE
CPX 0.00 OL 87.86 OPX 12.14 SUBALKALINE
A 21.34 F 50.38 M 28.27 THOLEITIC
AL2O3 19.45 NORM PLAG 49.91 CALC-ALKALINE
AN 44.35 AB* 44.51 OR 11.14 SODIC
CI 26.93 NORM PLAG 49.91 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 53.02 FE 24.42 MG 22.56

COLOR INDEX : 26.93
HASHIMOTO INDEX : 42.86

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR 40.00:RB 30.00:SR 640.00:Y 10.00:ZR 60.00:NB 20.00:BA 600.00:

COMMENTS : PS140/77NE. FINE GRAINED, SLIGHTLY FOLIATED, MED. TO DK. GREEN, GRANULAR TEXTURE, EQUANT ANHEDRAL FELDSPAR GRAINS (<1MM,<15%), CHLORITIC PLATES (1CM X 0.2MM,<10%). ANDESITIC TUFF.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:43:23

SAMPLE ID # AB15548

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM129
LOT : 0 CONCESSION :
GRID COORDINATES : E : 428990.0 N : 5418415.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 18-JUN-86
DATE : 16-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	50.80	54.53	51.68
AL2O3	18.90	20.29	22.66
FE2O3	13.30	2.54	1.81
FEO	0.00	10.56	8.37
CAO	0.23	0.25	0.25
MGO	6.10	6.55	9.25
NA2O	0.24	0.26	0.47
K2O	3.52	3.78	4.57
TIO2	0.87	0.93	0.67
P2O5	0.11	0.12	0.09
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.00	0.00	0.00
TOTAL	93.16	100.00	100.00

NORMS	
Q	20.15
C	17.43
OR	22.87
AB	2.37
AN	0.46
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	18.50
FS	13.92
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.72
IL	1.33
CR	0.00
HM	0.00
AP	0.25
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	32.42
CPX	0.00
AB*	2.37

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.04 SIO2 54.53 SUBALKALINE
OL* 44.26 NE* 2.59 Q* 53.16 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 17.23 F 54.83 M 27.95 THOLEITIC
AL2O3 20.29 NORM PLAG 16.35 CALC-ALKALINE
AN 1.80 AB* 9.21 OR 88.99 K-RICH SERIES
CI 36.47 NORM PLAG 16.35 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 52.80 FE 25.65 MG 21.55

COLOR INDEX : 36.47
HASHIMOTO INDEX : 95.34

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 80.00:RB 110.00:SR 10.00:Y 20.00:ZR 30.00:NB 10.00:BA 220.00:

COMMENTS : PS119/90. CHLORITE SCHIST, CHLORITE-SERICITE SCHIST. IN CLOSE PROXIMITY TO COARSE GRAINED GABBRO, POSSIBLE TUFF.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:44:04

SAMPLE ID # AB15549 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613 — FIELD NUMBER : 86116DM133 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 428695.0 N : 5418925.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 18-JUN-86
ANALYZED BY : XRAL — DATE : 06-AUG-86
ANALYTICAL TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.80	50.97	47.48
AL2O3	18.80	20.48	22.48
FE2O3	9.79	2.43	1.70
FEO	0.00	7.41	5.77
CAO	5.27	5.74	5.73
MGO	6.08	6.62	9.19
NA2O	1.21	1.32	2.38
K2O	3.14	3.42	4.07
TIO2	0.73	0.80	0.56
P2O5	0.60	0.65	0.52
MNO	0.15	0.16	0.13
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.54	0.00	0.00
TOTAL	91.81	100.00	100.00

NORMS	
Q	4.71
C	6.30
OR	20.34
AB	11.90
AN	24.34
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	18.38
FS	8.98
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.55
IL	1.11
CR	0.00
HM	0.00
AP	1.38
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	27.37
CPX	0.00
AB*	11.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.74 SIO2 50.97 SUBALKALINE
OL* 46.67 NE* 16.23 Q* 37.09 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 22.61 F 45.79 M 31.60 THOLEITIC
AL2O3 20.48 NORM PLAG 67.17 CALC-ALKALINE
AN 43.02 AB* 21.03 OR 35.95 K-RICH SERIES
CI 31.04 NORM PLAG 67.17 BASALT

JENSEN CALC-ALKALINE BASALT
AL 56.44 FE 20.49 MG 23.08

COLOR INDEX : 31.04
HASHIMOTO INDEX : 58.73

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	10.00:RB	60.00:SR	250.00:Y	20.00:ZR	60.00:NB	20.00:BA	500.00:AU	-10.00:LI	90.00:
BE	-10.00:B	60.00:SC	16.90:V	180.00:MN	0.00:CO	26.00:NI	29.00:CU	1.50:ZN	140.00:
GE	-10.00:AS	66.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.20:CS	3.40:
LA	30.10:CE	49.00:ND	25.00:SM	5.10:EU	0.70:YB	2.90:LU	0.54:HF	2.00:TA	-1.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	2.70:U	1.60:				

COMMENTS : PS127/76NE. EXTREMELY SCHISTOSE, MAUVE SCHIST, PROBABLE DEFORMED VOLCANICLASTIC. TOP OF MYRA FORMATION, BOTTOM OF SEDIMENT-SILL UNIT. DCP ANALYSIS ALSO PERFORMED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:44:47

SAMPLE ID # AB15551 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116PM001 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092C16 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 425520.0 N : 5419400.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,MEDIUM,SCHIST.
FINAL NAME :
ALTERATION : NOT VISIBLE ,CARBONATIZATION ,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 21-MAY-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 13-JUN-86 — TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	53.20	56.62	52.94
AL2O3	15.20	16.18	17.83
FE2O3	9.47	2.24	1.57
FEO	0.00	7.06	5.52
CAO	5.61	5.97	5.98
MGO	5.55	5.91	8.23
NA2O	1.90	2.02	3.67
K2O	2.69	2.86	3.42
TIO2	0.60	0.64	0.45
P2O5	0.36	0.38	0.30
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.06	0.06	0.05
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.47	0.00	0.00
TOTAL	93.95	100.00	100.00

NORMS	
Q	8.31
C	0.00
OR	17.09
AB	18.33
AN	26.86
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.27
HE	0.14
EN	16.33
FS	8.53
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.36
IL	0.90
CR	0.07
HM	0.00
AP	0.81
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	24.86
CPX	0.41
AB*	18.33

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.89 SIO2 56.62 SUBALKALINE
OL* 36.21 NE* 21.35 Q* 42.44 SUBALKALINE
CPX 1.63 OL 0.00 OPX 98.37 SUBALKALINE
A 24.60 F 45.66 M 29.74 THOLEITIC
AL2O3 16.18 NORM PLAG 59.44 THOLEITIC
AN 43.13 AB* 29.43 OR 27.45 K-RICH SERIES
CI 28.53 NORM PLAG 59.44 BASALT

JENSEN CALC-ALKALINE BASALT
AL 52.99 FE 22.54 MG 24.47

COLOR INDEX : 28.53
HASHIMOTO INDEX : 52.32

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	110.00:SR	170.00:Y	-10.00:ZR	-10.00:NB	10.00:BA	240.00:AU	0.00:LI	20.00:BE	-10.00:
B	40.00:SC	0.00:V	150.00:CR	0.00:MN	290.00:CO	0.00:NI	130.00:CU	140.00:ZN	150.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS103/82N. L24W/100S. O/C ON RD. CHLORITE SCHIST. MINOR DISSEM. CT, YELLOW-WHITE BANDS (3MM,20-25%). CHLORITE BANDS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:45:30

SAMPLE ID # AB15552

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 | FIELD NUMBER : 86116PM002 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092C16 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 425840.0 N : 5420015.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,MEDIUM,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. | DATE : 21-MAY-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 13-JUN-86 | TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	53.40	55.95	52.44
AL2O3	18.80	19.70	21.76
FE2O3	8.32	2.48	1.75
FEO	0.00	5.61	4.40
CAO	7.40	7.75	7.79
MGO	3.18	3.33	4.65
NA2O	2.50	2.62	4.76
K2O	1.17	1.23	1.47
TIO2	0.87	0.91	0.64
P2O5	0.24	0.25	0.20
MNO	0.16	0.17	0.13
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.93	0.00	0.00
TOTAL	95.43	99.00	99.00

NORMS	
Q	10.69
C	0.63
OR	7.34
AB	23.80
AN	37.27
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	9.31
FS	7.02
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.63
IL	1.29
CR	0.75
HM	0.00
AP	0.53
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	16.33
CPX	0.00
AB*	23.80

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.85 SIO2 55.95 SUBALKALINE
OL* 24.10 NE* 28.10 Q* 47.80 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 25.60 F 52.22 M 22.18 THOLEITIC
AL2O3 19.70 NORM PLAG 61.03 CALC-ALKALINE
AN 54.48 AB* 34.79 OR 10.73 AVERAGE SERIES
CI 20.25 NORM PLAG 61.03 BASALT

JENSEN CALC-ALKALINE ANDESITE
AL 65.27 FE 20.77 MG 13.96

COLOR INDEX : 20.25
HASHIMOTO INDEX : 30.53

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	20.00:SR	890.00:Y	20.00:ZR	40.00:NB	20.00:BA	590.00:AU	0.00:LI	10.00:BE	-10.00:
B	40.00:SC	0.00:V	330.00:CR	0.00:MN	1100.00:CO	0.00:NI	16.00:CU	46.00:ZN	78.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	8.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : L24W/580N. CHLORITIC ANDESITE FLOW, MED. GREEN, MASSIVE, NO STRUCTURE VISIBLE (30CM OUTCROP WITH POOR EXPOSURE).
PLAGIOCLASE PHENOCRYSTS, 1MM,<5% OF ROCK.

SAMPLE ID # AB15553 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM006 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425955.0 N : 5419777.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,MASSIVE ,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : UNKNOWN ,EPIDOTIZATION ,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 21-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.60	49.88	47.47
AL2O3	13.50	14.15	15.87
FE2O3	14.00	3.58	2.57
FEO	0.00	9.98	7.94
CAO	11.00	11.53	11.76
MGO	6.55	6.86	9.74
NA2O	1.44	1.51	2.78
K2O	0.09	0.09	0.11
TIO2	1.92	2.01	1.44
P2O5	0.17	0.18	0.14
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.23	0.00	0.00
TOTAL	95.42	100.00	100.00

NORMS	
Q	5.66
C	0.00
OR	0.57
AB	13.92
AN	32.43
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	12.96
HE	7.16
EN	12.99
FS	7.18
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.85
IL	2.88
CR	0.01
HM	0.00
AP	0.38
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	20.18
CPX	20.12
AB*	13.92

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.60 SIO2 49.88 SUBALKALINE

OL* 38.06 NE* 21.01 Q* 40.93 SUBALKALINE

CPX 49.93 OL 0.00 OPX 50.07 SUBALKALINE

A 7.40 F 60.92 M 31.68 THOLEITIC

AL2O3 14.15 NORM PLAG 69.96 THOLEITIC

AN 69.11 AB* 29.67 OR 1.22 AVERAGE SERIES

CI 47.03 NORM PLAG 69.96 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 42.07 FE 32.12 MG 25.81

COLOR INDEX : 47.03
HASHIMOTO INDEX : 34.80

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	-10.00:SR	240.00:Y	20.00:ZR	100.00:NB	30.00:BA	100.00:AU	0.00:LI	20.00:BE	-10.00:
B	20.00:SC	0.00:V	430.00:CR	0.00:MN	1200.00:CO	0.00:NI	88.00:CU	59.00:ZN	110.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	-2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : L22W/450N. SMALL O/C IN RIDGE SIDE. MASSIVE, GREEN ANDESITIC FLOW WITH 5-10% PLAG. CRYSTALS IN FG GROUNDMASS. VERY WEAK FOLIATION, EPIDOTE VEINLETS AND PLAG. ALTERATION TO EPIDOTE. MINOR PERV. CARBONATE SEAMS, SILICEOUS.

SAMPLE ID # AB15554 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM007 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425920.0 N : 5419740.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,CHLORITE,WHITE MICA,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 21-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	54.60	57.03	52.43
AL203	21.80	22.77	24.68
FE203	8.50	2.58	1.79
FEO	0.00	5.67	4.36
CAO	0.51	0.53	0.52
MGO	2.63	2.75	3.76
NA2O	4.54	4.74	8.45
K2O	2.49	2.60	3.05
TI02	0.97	1.01	0.70
P205	0.21	0.22	0.17
MNO	0.10	0.10	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	95.74	99.00	99.00

NORMS	
Q	10.33
C	12.69
OR	15.27
AB	42.26
AN	1.20
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	7.53
FS	6.69
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.68
IL	1.40
CR	0.75
HM	0.00
AP	0.46
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	14.22
CPX	0.00
AB*	42.26

CLASSIFICATIONS AND INDICES

NA20+K20 7.34 SI02 57.03 ALKALINE

OL* 15.96 NE* 37.96 Q* 46.08 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 40.62 F 44.19 M 15.20 THOLEITIC

AL203 22.77 NORM PLAG 2.76 CALC-ALKALINE

AN 2.04 AB* 71.96 OR 26.00 SODIC

CI 18.30 NORM PLAG 2.76 BENMORITE

JENSEN CALC-ALKALINE ANDESITE
AL 69.78 FE 19.58 MG 10.64

COLOR INDEX : 18.30
HASHIMOTO INDEX : 50.34

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	80.00:SR	80.00:Y	-10.00:ZR	70.00:NB	20.00:BA	500.00:AU	0.00:LI	20.00:BE	-10.00:
B	30.00:SC	0.00:V	280.00:CR	0.00:MN	640.00:CO	0.00:NI	20.00:CU	39.00:ZN	92.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	4.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : 2220W/375N. CLOSE TO SOURCE. RUBBLE PULLED UP BY TREE. CHLORITE-SERICITE SCHIST; WELL FOLIATED WITH PLAG. BANDS, CALCITE VEINLETS. MIGHT BE ALTERED HORNBLENDE-ANDESITE FLOW AS ON SOME PLANES TRACE OF HORNBL. ALTERED TO CHLORITE.

SAMPLE ID # AB15555 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM019 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 426850.0 N : 5418915.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION :
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 23-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.00	50.27	47.36
AL2O3	13.20	13.82	15.35
FE2O3	13.50	3.54	2.51
FEO	0.00	9.54	7.51
CAO	10.00	10.47	10.57
MGO	6.70	7.02	9.85
NA2O	2.37	2.48	4.53
K2O	0.47	0.49	0.59
TIO2	1.88	1.97	1.40
P2O5	0.16	0.17	0.13
MNO	0.21	0.22	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.08	0.00	0.00
TOTAL	95.49	100.00	100.00

NORMS	
Q	1.63
C	0.00
OR	2.96
AB	22.67
AN	25.56
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	13.86
HE	7.08
EN	12.77
FS	6.53
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.76
IL	2.79
CR	0.01
HM	0.00
AP	0.36
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	19.30
CPX	20.95
AB*	22.67

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.97 SIO2 50.27 SUBALKALINE

OL* 33.20 NE* 31.19 Q* 35.61 SUBALKALINE

CPX 52.04 OL 0.00 OPX 47.96 SUBALKALINE

A 13.10 F 56.01 M 30.89 THOLEITIC

AL2O3 13.82 NORM PLAG 53.00 THOLEITIC

AN 49.94 AB* 44.28 OR 5.78 AVERAGE SERIES

CI 46.80 NORM PLAG 53.00 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 41.72 FE 31.51 MG 26.77

COLOR INDEX : 46.80
HASHIMOTO INDEX : 36.69

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	-10.00:SR	250.00:Y	10.00:ZR	100.00:NB	20.00:BA	280.00:AU	0.00:LI	-10.00:BE	-10.00:
B	10.00:SC	0.00:V	400.00:CR	0.00:MN	1300.00:CO	0.00:NI	87.00:CU	170.00:ZN	110.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	6.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : BASALTIC ROCK, PROBABLY FINE GRAINED GABBRO, THOUGH POSSIBLY A BASALTIC FLOW. MINOR QTZ. VEINS WITH <1% PY, AND 15% FG ANHEDRAL FELDSPAR.

SAMPLE ID # AB15556 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM020 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 426870.0 N : 5418490.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,MEDIUM,FELDSPAR PORPHYRITIC,FOLIATED (not necessarily tectonized).
FINAL NAME :
ALTERATION : METAMORPHOSED ,EPIDOTIZATION ,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 23-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	44.70	47.09	44.34
AL203	14.30	15.07	16.72
FE203	15.10	4.86	3.44
FEO	0.00	9.94	7.83
CAO	7.21	7.60	7.66
MGO	6.94	7.31	10.26
NA2O	3.00	3.16	5.77
K2O	0.73	0.77	0.92
TI02	3.11	3.28	2.32
P205	0.65	0.68	0.55
MNO	0.22	0.23	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.01	0.01	0.01
C02	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.77	0.00	0.00
TOTAL	94.92	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	4.62
AB	28.84
AN	25.06
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	5.01
HE	1.94
EN	13.00
FS	5.03
FO	3.76
FA	1.45
WO	0.00
LN	0.00
MT	5.16
IL	4.64
CR	0.01
HM	0.00
AP	1.46
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	5.21
OPX	18.03
CPX	6.96
AB*	28.84

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.93 SI02 47.09 ALKALINE

OL* 35.97 NE* 33.23 Q* 30.81 SUBALKALINE

CPX 23.03 OL 17.25 OPX 59.72 SUBALKALINE

A 15.38 F 56.01 M 28.61 THOLEITIC

AL203 15.07 NORM PLAG 46.49 THOLEITIC

AN 42.82 AB* 49.28 OR 7.90 SODIC

CI 40.00 NORM PLAG 46.49 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 41.02 FE 33.80 MG 25.17

COLOR INDEX : 40.00
HASHIMOTO INDEX : 42.90

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	10.00:SR	330.00:Y	30.00:ZR	190.00:NB	60.00:BA	670.00:AU	0.00:LI	20.00:BE	-10.00:
B	10.00:SC	0.00:V	300.00:CR	0.00:MN	1300.00:CO	0.00:NI	89.00:CU	31.00:ZN	120.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	-2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS124/64NE. GREEN, MAFIC ROCK, BASALTIC WITH LITTLE TEXTURE. SLIGHTLY SAUC. PLAGIO. (15%,1MM). CHLORITE-ACTINOLITE MATRIX NOT MAGNETIC, PROBABLY GABBRO BUT MAYBE COARSE BASALTIC FLOW.

SAMPLE ID # AB15557 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM026 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431570.0 N : 5416740.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,WHITE MICA,CHLORITE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. DATE : 26-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.50	78.63	74.93
AL2O3	13.40	13.77	15.47
FE2O3	1.57	1.61	1.16
FEO	0.00	0.00	0.00
CAO	0.34	0.35	0.36
MGO	1.17	1.20	1.71
NA2O	1.78	1.83	3.38
K2O	2.20	2.26	2.75
TIO2	0.26	0.27	0.19
P2O5	0.04	0.04	0.03
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.70	0.00	0.00
TOTAL	97.28	99.00	99.00

NORMS	
Q	54.22
C	8.74
OR	13.76
AB	16.90
AN	1.51
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.42
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.00
IL	0.38
CR	0.75
HM	0.49
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.42
CPX	0.00
AB*	16.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.09 SIO2 78.63 SUBALKALINE
OL* 3.44 NE* 13.60 Q* 82.96 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 60.65 F 21.53 M 17.83 CALC-ALKALINE
AL2O3 13.77 NORM PLAG 8.19 CALC-ALKALINE
AN 4.69 AB* 52.54 OR 42.78 K-RICH SERIES
CI 5.29 NORM PLAG 8.19 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.39 FE 7.40 MG 9.21

COLOR INDEX : 5.29
HASHIMOTO INDEX : 61.38

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	50.00:SR	290.00:Y	-10.00:ZR	90.00:NB	10.00:BA	1150.00:AU	0.00:LI	10.00:BE	-10.00:
B	40.00:SC	0.00:V	20.00:CR	0.00:MN	200.00:CO	0.00:NI	8.00:CU	4.50:ZN	30.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	4.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS096/49N. 4099E/539N. CHLORITE-SERICITE SCHIST WITH PLAG. CRYSTALS (7%,0.5-2MM, EUHEDRAL-ANHEDRAL), AND QTZ. EYES (3%, 3MM, AUGEN SHAPED). MINOR RUST ON WEATHERED SURFACES.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:49:49

SAMPLE ID # AB15558 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116PM028 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431270.0 N : 5416395.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 26-MAY-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 13-JUN-86 — TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.50	77.93	72.31
AL2O3	12.10	12.33	13.48
FE2O3	1.69	1.72	1.20
FEO	0.00	0.00	0.00
CAO	0.36	0.37	0.36
MGO	0.49	0.50	0.69
NA2O	5.82	5.93	10.67
K2O	0.85	0.87	1.03
TIO2	0.22	0.22	0.16
P2O5	0.06	0.06	0.05
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.62	0.00	0.00
TOTAL	98.15	99.00	99.00

NORMS	
Q	35.98
C	1.22
OR	5.13
AB	53.33
AN	1.42
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.38
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.20
IL	0.31
CR	0.75
HM	0.40
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.38
CPX	0.00
AB*	53.33

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.80 SIO2 77.93 SUBALKALINE

OL* 1.14 NE* 35.28 Q* 63.58 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 76.84 F 17.52 M 5.64 CALC-ALKALINE

AL2O3 12.33 NORM PLAG 2.60 CALC-ALKALINE

AN 2.38 AB* 89.06 OR 8.57 AVERAGE SERIES

CI 3.30 NORM PLAG 2.60 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.50 FE 9.08 MG 4.43

COLOR INDEX : 3.30
HASHIMOTO INDEX : 17.82

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	270.00:Y	-10.00:ZR	90.00:NB	30.00:BA	580.00:AU	0.00:LI	-10.00:BE	-10.00:
B	30.00:SC	0.00:V	20.00:CR	0.00:MN	200.00:CO	0.00:NI	8.00:CU	4.50:ZN	30.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	6.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : RUSTY, POOR EXPOSURE, NO VISIBLE SULPHIDES, BUT SULPHUR ODOUR WHEN BROKEN. O/C ONLY 50 X 30CM, VERY WEAKLY SCHISTOSE, WITH QTZ. EYES, PLAG. GRAINS. RHYO-DACITIC, METAVOLCANIC FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
10:50:31

SAMPLE ID # AB15559 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM031 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431540.0 N : 5416220.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. DATE : 26-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	75.10	77.15	72.97	Q	46.02
AL2O3	13.70	14.07	15.69	C	6.85
FE2O3	1.97	1.84	1.31	OR	16.44
FEO	0.00	0.17	0.13	AB	27.03
CAO	0.16	0.16	0.17	AN	0.35
MGO	0.50	0.51	0.72	LC	0.00
NA2O	2.87	2.95	5.41	NE	0.00
K2O	2.65	2.72	3.29	KP	0.00
TIO2	0.29	0.30	0.21	AC	0.00
P2O5	0.07	0.07	0.06	DI	0.00
MNO	0.05	0.05	0.04	HE	0.00
S	0.00	0.00	0.00	EN	1.45
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.50	0.50	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.08	0.00	0.00	MT	1.38
				IL	0.42
TOTAL	97.33	99.00	99.00	CR	0.75
				HM	0.39
				AP	0.15
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	1.45
				CPX	0.00
				AB*	27.03

CLASSIFICATIONS AND INDICES

NA2O+K2O	5.67	SIO2	77.15	SUBALKALINE		
OL*	1.46	NE*	21.77	Q*	76.77	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	70.84	F	22.75	M	6.42	CALC-ALKALINE
AL2O3	14.07	NORM PLAG	1.29			CALC-ALKALINE
AN	0.80	AB*	61.68	OR	37.52	K-RICH SERIES
CI	3.64	NORM PLAG	1.29			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.65 FE 9.35 MG 4.00

COLOR INDEX : 3.64
HASHIMOTO INDEX : 50.97

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	150.00:Y	10.00:ZR	110.00:NB	20.00:BA	1070.00:AU	0.00:LI	-10.00:BE	-10.00:
B	30.00:SC	0.00:V	30.00:CR	0.00:MN	350.00:CO	0.00:NI	5.00:CU	19.00:ZN	49.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	8.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : CHLORITE-QTZ-SERICITE SCHIST. PLAG. GRAINS (1MM,5%) IN FG MATRIX. NO VISIBLE QTZ. EYES BUT QTZ. BANDS EXIST. ALTERED DACITIC FLOW. PS112/?

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15560 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM036A PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 432535.0 N : 5415700.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,MATRIX SUPPORTED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. DATE : 27-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.80	72.18	66.94
AL2O3	15.20	15.50	16.94
FE2O3	2.00	1.84	1.28
FEO	0.00	0.18	0.14
CAO	2.23	2.27	2.26
MGO	1.40	1.43	1.97
NA2O	4.53	4.62	8.30
K2O	1.53	1.56	1.85
TIO2	0.30	0.31	0.21
P2O5	0.08	0.08	0.06
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	98.08	99.00	99.00

NORMS	
Q	30.21
C	2.48
OR	9.24
AB	41.52
AN	10.76
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.95
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.38
IL	0.43
CR	0.75
HM	0.36
AP	0.17
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.95
CPX	0.00
AB*	41.52

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.18 SIO2 72.18 SUBALKALINE
OL* 3.91 NE* 32.92 Q* 63.17 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 65.45 F 19.43 M 15.12 CALC-ALKALINE
AL2O3 15.50 NORM PLAG 20.58 CALC-ALKALINE
AN 17.49 AB* 67.49 OR 15.02 AVERAGE SERIES
CI 6.11 NORM PLAG 20.58 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.31 FE 8.11 MG 9.59

COLOR INDEX : 6.11
HASHIMOTO INDEX : 30.24

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	10.00:SR	430.00:Y	30.00:ZR	110.00:NB	20.00:BA	970.00:AU	0.00:LI	-10.00:BE	-10.00:
B	20.00:SC	0.00:V	40.00:CR	0.00:MN	280.00:CO	0.00:NI	6.00:CU	10.00:ZN	22.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : CHLORITE-SERICITE SCHIST WITH 3% QTZ. EYES (1.5MM) AND LOCALIZED QTZ. VEINS (1CM TO 10CM). PROBABLY A META-DACITIC FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:51:55

SAMPLE ID # AB15561 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM036B PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 432530.0 N : 5415700.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. DATE : 27-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	42.60	46.03	43.49
AL2O3	15.40	16.64	18.53
FE2O3	16.10	2.58	1.84
FEO	0.00	13.33	10.53
CAO	8.36	9.03	9.15
MGO	10.00	10.80	15.22
NA2O	0.04	0.04	0.08
K2O	0.04	0.04	0.05
TIO2	0.89	0.96	0.68
P2O5	0.21	0.23	0.18
MNO	0.27	0.29	0.23
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.23	0.00	0.00
TOTAL	92.56	100.00	100.00

NORMS	
Q	1.04
C	0.72
OR	0.26
AB	0.40
AN	44.21
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	30.43
FS	18.31
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.75
IL	1.37
CR	0.02
HM	0.00
AP	0.48
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	48.74
CPX	0.00
AB*	0.40

CLASSIFICATIONS AND INDICES

NA2O+K2O 0.09 SIO2 46.03 SUBALKALINE
OL* 72.85 NE* 0.47 Q* 26.67 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 0.33 F 58.97 M 40.71 THOLEITIC
AL2O3 16.64 NORM PLAG 99.11 THOLEITIC
AN 98.54 AB* 0.88 OR 0.58 K-RICH SERIES
CI 52.87 NORM PLAG 99.11 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 39.40 FE 28.25 MG 32.35

COLOR INDEX : 52.87
HASHIMOTO INDEX : 54.45

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	10.00:SR	400.00:Y	10.00:ZR	20.00:NB	20.00:BA	90.00:AU	0.00:LI	-10.00:BE	-10.00:
B	-10.00:SC	0.00:V	470.00:CR	0.00:MN	1500.00:CO	0.00:NI	80.00:CU	9.50:ZN	110.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : SMALL LAYER SURROUNDED (TO N,E AND S.) BY 036A MATERIAL. CHLORITE SCHIST WITH 8% EPIDOTIZED PLAG. LATHS. SCHISTOSITY CONCORDANT WITH A WEATHERED SURFACE TYPICAL OF BASALT.

SAMPLE ID # AB15562 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PM043 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 432865.0 N : 5415170.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. DATE : 27-MAY-86
ANALYZED BY : XRAL DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	73.00	74.24	69.12
AL203	13.50	13.73	15.07
FE203	2.57	1.77	1.24
FEO	0.00	0.76	0.59
CAO	2.18	2.22	2.21
MGO	1.09	1.11	1.54
NA20	4.88	4.96	8.96
K20	0.83	0.84	1.00
TI02	0.24	0.24	0.17
P205	0.05	0.05	0.04
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.47	0.00	0.00
TOTAL	98.32	99.00	99.00

NORMS	
Q	33.05
C	0.82
OR	5.02
AB	44.79
AN	10.72
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.08
FS	0.71
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.86
IL	0.34
CR	0.75
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.79
CPX	0.00
AB*	44.79

CLASSIFICATIONS AND INDICES

NA20+K20 5.81 SI02 74.24 SUBALKALINE
OL* 3.48 NE* 32.92 Q* 63.60 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.66 F 25.38 M 11.96 CALC-ALKALINE
AL203 13.73 NORM PLAG 19.32 CALC-ALKALINE
AN 17.72 AB* 73.99 OR 8.29 AVERAGE SERIES
CI 5.99 NORM PLAG 19.32 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.73 FE 11.03 MG 8.24

COLOR INDEX : 5.99
HASHIMOTO INDEX : 21.38

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	250.00:Y	30.00:ZR	90.00:NB	10.00:BA	1950.00:AU	0.00:LI	10.00:BE	-10.00:
B	30.00:SC	0.00:V	50.00:CR	0.00:MN	470.00:CO	0.00:NI	8.00:CU	56.00:ZN	26.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : QUARTZ-SERICITE SCHIST WITH 8-10% QTZ. EYE MATERIAL (1-5MM). MAFIC VEIN IN ROCK, METAMORPHOSED FELSIC VOLCANICLASTIC.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:53:19

SAMPLE ID # AB15563 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116PM079 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430600.0 N : 5416900.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,HOMOGENEOUS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 30-MAY-86 — ANALYTICAL TECHNIQUE :
ANALYZED BY : XRAL — DATE : 25-JUN-86

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.80	75.48	70.05
AL203	13.60	13.91	15.22
FE203	1.94	1.79	1.25
FEO	0.00	0.17	0.14
CAO	0.24	0.25	0.24
MGO	0.66	0.68	0.93
NA2O	5.09	5.21	9.37
K2O	2.08	2.13	2.52
TIO2	0.25	0.26	0.18
P2O5	0.07	0.07	0.06
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.04	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.62	0.00	0.00
TOTAL	97.70	99.00	99.00

NORMS	
Q	33.15
C	3.03
OR	12.61
AB	46.83
AN	0.75
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.87
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.52
IL	0.36
CR	0.75
HM	0.24
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.87
CPX	0.00
AB*	46.83

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.33 SIO2 75.48 SUBALKALINE
OL* 1.71 NE* 34.33 Q* 63.96 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 74.88 F 18.23 M 6.89 CALC-ALKALINE
AL203 13.91 NORM PLAG 1.58 CALC-ALKALINE
AN 1.25 AB* 77.81 OR 20.95 AVERAGE SERIES
CI 3.98 NORM PLAG 1.58 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.67 FE 9.08 MG 5.26

COLOR INDEX : 3.98
HASHIMOTO INDEX : 33.95

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 60.00:SR 90.00:Y -10.00:ZR 100.00:NB 10.00:BA 520.00:

COMMENTS : PS120/62S. CHLORITE-QTZ-SERICITE SCHIST WITH 5% QTZ. EYES (1-3MM, AUGEN SHAPED) AND 12% ANHEDRAL PLAGIOCLASE (<1MM), AFTER CRYSTAL TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:53:58

SAMPLE ID # AB15564

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 | FIELD NUMBER : 86116PM091 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 430720.0 N : 5416780.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY. | DATE : 30-MAY-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 25-JUN-86 | TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	66.90	68.79	62.56	Q	17.93
AL2O3	14.60	15.01	16.09	C	2.83
FE2O3	4.33	1.90	1.30	OR	3.70
FEO	0.00	2.29	1.75	AB	58.73
CAO	0.48	0.49	0.48	AN	1.94
MGO	3.54	3.64	4.93	LC	0.00
NA2O	6.48	6.66	11.75	NE	0.00
K2O	0.62	0.64	0.74	KP	0.00
TIO2	0.35	0.36	0.25	AC	0.00
P2O5	0.07	0.07	0.06	DI	0.00
MNO	0.13	0.13	0.10	HE	0.00
S	0.00	0.00	0.00	EN	9.87
NIO	0.00	0.00	0.00	FS	2.90
CR2O3	0.00	0.50	0.50	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.47	0.00	0.00	MT	1.95
				IL	0.49
TOTAL	97.24	99.00	99.00	CR	0.75
				HM	0.00
				AP	0.15
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	12.77
				CPX	0.00
				AB*	58.73

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.30 SIO2 68.79 SUBALKALINE

OL* 10.71 NE* 39.40 Q* 49.89 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 48.84 F 26.80 M 24.35 CALC-ALKALINE

AL2O3 15.01 NORM PLAG 3.20 CALC-ALKALINE

AN 3.02 AB* 91.23 OR 5.75 K-POOR SERIES

CI 15.21 NORM PLAG 3.20 RHYOLITE

JENSEN CALC-ALKALINE ANDESITE
AL 65.89 FE 13.91 MG 20.20

COLOR INDEX : 15.21
HASHIMOTO INDEX : 37.41

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 20.00:SR 140.00:Y 20.00:ZR 90.00:NB 20.00:BA 310.00:

COMMENTS : CHLORITE-SERICITE SCHIST WITH 10% ANHEDRAL (1MM) PLAGIOCLASE AND 5% QTZ. EYES (AUGEN-CIRCLE SHAPED,3MM), AFTER CRYSTAL TUFF.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15565 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86116-DPM-T1 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431865.0 N : 5415890.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 02-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUN-86 TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	73.50	75.21	69.93	Q	33.24
AL2O3	13.70	14.02	15.36	C	2.76
FE2O3	1.99	1.85	1.30	OR	13.37
FEO	0.00	0.17	0.13	AB	44.92
CAO	0.53	0.54	0.54	AN	2.37
MGO	0.55	0.56	0.78	LC	0.00
NA2O	4.87	4.98	8.98	NE	0.00
K2O	2.20	2.25	2.67	KP	0.00
TIO2	0.31	0.32	0.22	AC	0.00
P2O5	0.05	0.05	0.04	DI	0.00
MNO	0.05	0.05	0.04	HE	0.00
S	0.00	0.00	0.00	EN	1.56
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.50	0.50	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	1.47	0.00	0.00	MT	1.34
				IL	0.44
TOTAL	97.72	99.00	99.00	CR	0.75
				HM	0.40
				AP	0.11
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	1.56
				CPX	0.00
				AB*	44.92

CLASSIFICATIONS AND INDICES

NA2O+K2O	7.23	SIO2	75.21	SUBALKALINE		
OL*	1.47	NE*	33.81	Q*	64.72	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	75.13	F	19.03	M	5.84	CALC-ALKALINE
AL2O3	14.02	NORM PLAG	5.00			CALC-ALKALINE
AN	3.90	AB*	74.06	OR	22.04	AVERAGE SERIES
CI	3.75	NORM PLAG	5.00			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.17 FE 9.46 MG 4.37

COLOR INDEX : 3.75
HASHIMOTO INDEX : 33.74

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 40.00:SR	130.00:Y	20.00:ZR	130.00:NB	10.00:BA	1150.00:

COMMENTS : PS110/80S. 90% WHITE GROUNDMASS (FELDSPAR AND SERICITE), 6% QTZ. EYES (2-5MM), 2% PLAG. CRYSTALS (1-2MM) AND 2% BIOTITE-CHLORITE AFTER CRYSTAL TUFF. LOWER VOLCANICLASTIC OF TRENCH AT L48E, 1+67.5S. SMALL BLEBS (RARE) OF PY (8MM.).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:55:18

SAMPLE ID # AB15567 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116-DPM-T3 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431866.0 N : 5415893.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL ,0.02 TO <0.05%.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 02-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86 — ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	73.10	74.58	68.79	Q	28.81
AL2O3	13.60	13.87	15.08	C	1.38
FE2O3	2.11	1.86	1.29	OR	8.77
FEO	0.00	0.27	0.21	AB	54.18
CAO	0.63	0.64	0.64	AN	2.78
MGO	0.78	0.80	1.09	LC	0.00
NA2O	5.94	6.06	10.84	NE	0.00
K2O	1.46	1.49	1.75	KP	0.00
TIO2	0.32	0.33	0.23	AC	0.00
P2O5	0.06	0.06	0.05	DI	0.00
MNO	0.05	0.05	0.04	HE	0.00
S	0.00	0.00	0.00	EN	2.19
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.50	0.50	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	1.47	0.00	0.00	MT	1.56
				IL	0.45
TOTAL	98.01	99.00	99.00	CR	0.75
				HM	0.25
				AP	0.13
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	2.19
				CPX	0.00
				AB*	54.18

CLASSIFICATIONS AND INDICES

NA2O+K2O	7.55	SIO2	74.58	SUBALKALINE		
OL*	1.93	NE*	38.17	Q*	59.91	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	73.42	F	18.84	M	7.74	CALC-ALKALINE
AL2O3	13.87	NORM PLAG	4.88			CALC-ALKALINE
AN	4.22	AB*	82.43	OR	13.35	AVERAGE SERIES
CI	4.45	NORM PLAG	4.88			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 84.09 FE 9.81 MG 6.10

COLOR INDEX : 4.45
HASHIMOTO INDEX : 25.43

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	120.00:Y	20.00:ZR	140.00:NB	20.00:BA	1020.00:

COMMENTS : MODERATELY FOLIATED VOLCANICLASTIC WITH QTZ. EYES (5%,2MM), MINOR CHLORITE, PLAG. (8%) AND CHLORITE LAPILLI IN SAME UNIT TO NORTH. SILICEOUS AND RUSTY. MATRIX COMPOSED OF QTZ. AND FELDSPAR.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:55:59

SAMPLE ID # AB15570 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116PM120 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431135.0 N : 5416635.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 04-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86 — ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.50	74.71	70.72
AL2O3	13.00	13.40	14.95
FE2O3	2.33	1.77	1.26
FEO	0.00	0.57	0.45
CAO	2.73	2.81	2.85
MGO	1.09	1.12	1.58
NA2O	2.43	2.50	4.60
K2O	2.67	2.75	3.33
TIO2	0.22	0.23	0.16
P2O5	0.05	0.05	0.04
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	97.03	99.00	99.00

NORMS	
Q	39.58
C	1.46
OR	16.63
AB	22.98
AN	13.92
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.17
FS	0.44
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.89
IL	0.32
CR	0.75
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.61
CPX	0.00
AB*	22.98

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.26 SIO2 74.71 SUBALKALINE
OL* 4.09 NE* 20.83 Q* 75.07 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 61.55 F 25.30 M 13.15 CALC-ALKALINE
AL2O3 13.40 NORM PLAG 37.73 THOLEITIC
AN 26.01 AB* 42.92 OR 31.07 K-RICH SERIES
CI 5.83 NORM PLAG 37.73 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.93 FE 10.49 MG 8.58

COLOR INDEX : 5.83
HASHIMOTO INDEX : 42.15

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 80.00:SR 340.00:Y 10.00:ZR 90.00:NB 10.00:BA 1000.00:

COMMENTS : PS121/81N. QTZ-SERICITE SCHIST AFTER DACITIC CRYSTAL TUFF WITH ELLIPSOIDAL QTZ. EYES (4%) AND ANHEDRAL PLAG. (5-12%), MINOR SIL DUE TO MODE BOUDINAGED. QTZ. VEINS (2-4CM) PRESENT AND ALSO MINOR, LOCAL "S" FOLDS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15571 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86116PM121 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431472.0 N : 5417172.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 04-JUN-86
ANALYZED BY : XRAL DATE : 25-JUN-86 ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	73.50	75.17	70.78	Q	41.50
AL2O3	13.10	13.40	14.87	C	2.23
FE2O3	2.75	1.82	1.29	OR	2.71
FEO	0.00	0.89	0.70	AB	33.89
CAO	2.66	2.72	2.74	AN	13.32
MGO	1.39	1.42	1.99	LC	0.00
NA2O	3.63	3.71	6.78	NE	0.00
K2O	0.44	0.45	0.54	KP	0.00
TIO2	0.28	0.29	0.20	AC	0.00
P2O5	0.06	0.06	0.05	DI	0.00
MNO	0.05	0.05	0.04	HE	0.00
S	0.00	0.00	0.00	EN	3.99
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.01	0.01	0.01	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	1.62	0.00	0.00	MT	1.61
				IL	0.41
TOTAL	97.77	100.00	100.00	CR	0.01
				HM	0.22
				AP	0.13
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	3.99
				CPX	0.00
				AB*	33.89

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.16 SIO2 75.17 SUBALKALINE
OL* 3.77 NE* 25.61 Q* 70.62 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 51.30 F 31.19 M 17.52 THOLEITIC
AL2O3 13.40 NORM PLAG 28.21 THOLEITIC
AN 26.68 AB* 67.90 OR 5.42 K-POOR SERIES
CI 6.22 NORM PLAG 28.21 DACITE

JENSEN CALC-ALKALINE DACITE
AL 77.85 FE 11.71 MG 10.44

COLOR INDEX : 6.22
HASHIMOTO INDEX : 22.54

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 20.00:SR 490.00:Y 10.00:ZR 100.00:NB -10.00:BA 700.00:

COMMENTS : DACITIC CRYSTAL-LAPILLI TUFF WITH QTZ. EYES (3%,3MM), ANHEDRAL PLAG. (5-15%). WEATHERED SURFACE INDICATES POSSIBLE 10CM FRAGS. SOME 4CM QTZ-RICH LAPILLI, SOME LATER SILICIFICATION BY 4CM QTZ. VEIN.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:57:19

SAMPLE ID # AB15572 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 — FIELD NUMBER : 86116PM134 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 430480.0 N : 5418060.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,MAFIC PORPHYRITIC ,MATRIX SUPPORTED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 06-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUN-86 — ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	58.80	60.20	56.05
AL2O3	15.10	15.46	16.97
FE2O3	6.16	2.24	1.57
FEO	0.00	3.66	2.85
CAO	6.81	6.97	6.96
MGO	4.68	4.79	6.65
NA2O	2.78	2.85	5.14
K2O	2.08	2.13	2.53
TIO2	0.69	0.71	0.49
P2O5	0.81	0.83	0.65
MNO	0.17	0.17	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	97.67	99.00	99.00

NORMS	
Q	13.68
C	0.00
OR	12.66
AB	25.69
AN	23.24
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	3.65
HE	1.21
EN	11.47
FS	3.80
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.36
IL	0.99
CR	0.75
HM	0.00
AP	1.75
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	15.28
CPX	4.86
AB*	25.69

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.98 SIO2 60.20 SUBALKALINE

OL* 20.97 NE* 28.21 Q* 50.82 SUBALKALINE

CPX 24.15 OL 0.00 OPX 75.85 SUBALKALINE

A 32.22 F 36.75 M 31.03 THOLEITIC

AL2O3 15.46 NORM PLAG 47.50 THOLEITIC

AN 37.73 AB* 41.71 OR 20.56 AVERAGE SERIES

CI 23.49 NORM PLAG 47.50 BASALT

JENSEN CALC-ALKALINE BASALT
AL 59.19 FE 17.62 MG 23.19

COLOR INDEX : 23.49
HASHIMOTO INDEX : 41.35

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 60.00:SR 850.00:Y 20.00:ZR 40.00:NB 20.00:BA 1440.00:

COMMENTS : P0124/58N. MATRIX SAMPLE OF VOLCANICLASTIC BRECCIA WITH SILICA BLOCKS (ROUND, UP TO 50CM,20%). MATRIX IS LT. GREEN, FELSIC, HARD, WITH 12% CHLORITE LAPILLI (4-12MM LONG, 2MM THICK). MATRIX IS CHLORITE-LAPILLI DACITIC TUFF.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
10:58:00

SAMPLE ID # AB15573

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM154
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430770.0 N : 5417620.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANIC,MAFIC ,FINE,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS.
MINERALIZATION :
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 07-JUN-86
DATE : 25-JUN-86

ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	47.60	50.36	46.26
AL203	17.40	18.41	19.93
FE203	10.80	2.39	1.65
FE0	0.00	8.13	6.25
CA0	6.26	6.62	6.52
MG0	7.30	7.72	10.57
NA20	3.00	3.17	5.65
K20	1.78	1.88	2.21
TI02	0.76	0.80	0.56
P205	0.27	0.29	0.22
MN0	0.21	0.22	0.17
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	4.82	0.00	0.00
TOTAL	94.51	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	11.05
AB	28.26
AN	30.18
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.30
HE	0.15
EN	6.25
FS	3.27
FO	11.06
FA	5.79
WO	0.00
LN	0.00
MT	2.48
IL	1.11
CR	0.75
HM	0.00
AP	0.59
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	16.85
OPX	9.52
CPX	0.45
AB*	28.26

CLASSIFICATIONS AND INDICES

NA20+K20 5.06 SI02 50.36 ALKALINE

OL* 43.92 NE* 31.04 Q* 25.05 SUBALKALINE

CPX 1.68 OL 62.82 OPX 35.50 SUBALKALINE

A 21.93 F 44.58 M 33.49 THOLEITIC

AL203 18.41 NORM PLAG 51.64 CALC-ALKALINE

AN 43.43 AB* 40.67 OR 15.90 SODIC

CI 30.42 NORM PLAG 51.64 BASALT

JENSEN CALC-ALKALINE BASALT
AL 50.94 FE 22.05 MG 27.02

COLOR INDEX : 30.42
HASHIMOTO INDEX : 49.51

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 30.00:SR 480.00:Y 10.00:ZR 30.00:NB 20.00:BA 710.00:

COMMENTS : P0120/82N. DK. GREEN MAFIC. CT BLEBS & ALONG FRACTS. AREAS WITH 15% PLAG., 5% ARG. (3MM, MOST ANHEDRAL), SOME AREAS ALTERED TO CHLORITE. POSSIBLY BASALT-ANDESITE FLOW, PLAG. CRYSTAL TUFF OR SHEARED GABBRO.

SAMPLE ID # AB15576 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28158 FIELD NUMBER : 86116PM138 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 430760.0 N : 5418090.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,BEDDED,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,NO COMMENT.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 06-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUN-86 TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	51.70	54.05	49.57	Q	0.00
AL2O3	17.20	17.98	19.44	C	0.00
FE2O3	8.96	2.30	1.59	OR	2.76
FEO	0.00	6.36	4.88	AB	43.40
CAO	7.30	7.63	7.50	AN	25.52
MGO	4.78	5.00	6.83	LC	0.00
NA2O	4.67	4.88	8.68	NE	0.00
K2O	0.45	0.47	0.55	KP	0.00
TIO2	0.70	0.73	0.50	AC	0.00
P2O5	0.41	0.43	0.33	DI	4.56
MNO	0.16	0.17	0.13	HE	2.81
S	0.00	0.00	0.00	EN	8.38
NIO	0.00	0.00	0.00	FS	5.17
CR2O3	0.00	0.50	0.50	FO	2.25
CO2	0.00	0.00	0.00	FA	1.39
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	3.50	0.00	0.00	MT	2.38
				IL	1.01
TOTAL	95.64	99.00	99.00	CR	0.75
				HM	0.00
				AP	0.89
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	3.64
				OPX	13.55
				CPX	7.36
				AB*	43.40

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.35 SIO2 54.05 SUBALKALINE
OL* 22.77 NE* 42.98 Q* 34.25 SUBALKALINE
CPX 29.99 OL 14.81 OPX 55.20 SUBALKALINE
A 28.50 F 44.88 M 26.61 THOLEITIC
AL2O3 17.98 NORM PLAG 37.02 CALC-ALKALINE
AN 35.60 AB* 60.56 OR 3.84 K-POOR SERIES
CI 27.94 NORM PLAG 37.02 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 58.25 FE 21.28 MG 20.47

COLOR INDEX : 27.94
HASHIMOTO INDEX : 30.41

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 20.00:SR 1200.00:Y 10.00:ZR 60.00:NB 20.00:BA 250.00:

COMMENTS : PO133/66NE. ANDESITIC, FINE GRAINED MATRIX WITH ANHEDRAL PLAGIOCLASE (15%,1MM). PROBABLY A TUFF BUT MAYBE A FLOW.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15577 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116PM166D PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 430975.0 N : 5417700.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 09-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.60	77.69	73.10
AL2O3	13.40	13.77	15.27
FE2O3	0.81	0.83	0.59
FEO	0.00	0.00	0.00
CAO	0.92	0.95	0.95
MGO	0.57	0.59	0.82
NA2O	3.13	3.22	5.87
K2O	2.55	2.62	3.15
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.31	100.00	100.00

NORMS	
Q	43.49
C	4.51
OR	15.75
AB	29.34
AN	4.36
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.64
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.03
CR	0.00
HM	0.59
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.17
AG	0.00
OL	0.00
OPX	1.64
CPX	0.00
AB*	29.34

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.84 SIO2 77.69 SUBALKALINE
OL* 1.65 NE* 23.64 Q* 74.71 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 81.39 F 10.44 M 8.17 CALC-ALKALINE
AL2O3 13.77 NORM PLAG 12.93 CALC-ALKALINE
AN 8.81 AB* 59.34 OR 31.85 K-RICH SERIES
CI 2.26 NORM PLAG 12.93 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 90.47 FE 4.67 MG 4.87

COLOR INDEX : 2.26
HASHIMOTO INDEX : 43.51

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 70.00:SR 150.00:Y -10.00:ZR 110.00:NB 20.00:BA 1220.00:

COMMENTS : PS120/84N. QTZ-SERICITE SCHIST AFTER DACITIC QTZ. CRYSTAL TUFF WITH 5-7% AUGEN QTZ. EYES (2-4MM).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:00:00

SAMPLE ID # AB15581 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116PM186 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 425030.0 N : 5420880.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,EQUIGRANULAR,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 10-JUN-86 — ANALYTICAL TECHNIQUE :
ANALYZED BY : XRAL — DATE : 16-JUL-86

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.50	51.67	49.11
AL2O3	13.00	13.85	15.52
FE2O3	13.70	3.61	2.58
FEO	0.00	9.88	7.86
CAO	9.09	9.68	9.86
MGO	6.70	7.14	10.11
NA2O	1.60	1.70	3.14
K2O	0.05	0.05	0.06
TIO2	1.89	2.01	1.44
P2O5	0.16	0.17	0.14
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.62	0.00	0.00
TOTAL	93.86	100.00	100.00

NORMS	
Q	8.30
C	0.00
OR	0.32
AB	15.71
AN	30.78
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	9.13
HE	4.78
EN	15.66
FS	8.20
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.88
IL	2.88
CR	0.00
HM	0.00
AP	0.37
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	23.86
CPX	13.91
AB*	15.71

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.76 SIO2 51.67 SUBALKALINE

OL* 37.39 NE* 19.69 Q* 42.92 SUBALKALINE

CPX 36.84 OL 0.00 OPX 63.16 SUBALKALINE

A 7.98 F 59.62 M 32.40 THOLEITIC

AL2O3 13.85 NORM PLAG 66.21 THOLEITIC

AN 65.75 AB* 33.55 OR 0.69 K-POOR SERIES

CI 44.53 NORM PLAG 66.21 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 41.18 FE 31.98 MG 26.84

COLOR INDEX : 44.53
HASHIMOTO INDEX : 38.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 210.00:RB 10.00:SR 160.00:Y 30.00:ZR 110.00:NB 30.00:BA 140.00:

COMMENTS : MASSIVE, DK. GREEN FLOW OR VERY FINE GRAINED GABBRO WITH QTZ-EPIDOTE AND QTZ. VEINS, AND <<1% DISSEM. PY.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:00:40

SAMPLE ID # AB15582

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM189PP
LOT : 0 CONCESSION :
GRID COORDINATES : E : 424970.0 N : 5420800.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,HETEROGENEOUS ,MATRIX SUPPORTED.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 11-JUN-86
DATE : 16-JUL-86

ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	48.50	51.09	47.67	Q	0.07
AL2O3	21.70	22.86	25.14	C	9.43
FE2O3	11.20	2.48	1.74	OR	34.77
FEO	0.00	8.39	6.55	AB	24.29
CAO	2.63	2.77	2.77	AN	9.75
MGO	2.12	2.23	3.11	LC	0.00
NA2O	2.55	2.69	4.86	NE	0.00
K2O	5.54	5.84	6.95	KP	0.00
TIO2	0.85	0.90	0.63	AC	0.00
P2O5	0.59	0.62	0.49	DI	0.00
MNO	0.13	0.14	0.11	HE	0.00
S	0.00	0.00	0.00	EN	6.21
NIO	0.00	0.00	0.00	FS	10.31
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	3.39	0.00	0.00	MT	2.61
				IL	1.26
TOTAL	94.92	100.00	100.00	CR	0.00
				HM	0.00
				AP	1.31
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	16.52
				CPX	0.00
				AB*	24.29

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.52 SIO2 51.09 ALKALINE
OL* 30.31 NE* 35.65 Q* 34.04 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 39.88 F 49.67 M 10.45 THOLEITIC
AL2O3 22.86 NORM PLAG 28.64 CALC-ALKALINE
AN 14.17 AB* 35.30 OR 50.53 SODIC
CI 20.39 NORM PLAG 28.64 MUGEARITE

JENSEN THOLEIITIC DACITE
AL 67.46 FE 24.21 MG 8.33

COLOR INDEX : 20.39
HASHIMOTO INDEX : 59.66

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB	120.00:SR	340.00:Y	30.00:ZR	90.00:NB	20.00:BA	1250.00:

COMMENTS : PURPLE PYROCLASTIC (PLAG. CRYSTAL BLOCK PYROCLASTIC BRECCIA) WITH BLOCKS SIMILAR TO BLACK-PURPLE F.G. MATRIX. (30CM X 4CM). PLAGIO-EPIDOTE LAPILLI CRYSTALS (20-25%,1MM ANHEDRAL).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:01:20

SAMPLE ID # AB15583 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116PM194 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 424905.0 N : 5420602.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE PLUS CHALCOPYRITE.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 11-JUN-86 — ANALYTICAL TECHNIQUE :
ANALYZED BY : XRAL — DATE : 16-JUL-86

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.10	48.83	45.93
AL2O3	20.60	21.82	24.19
FE2O3	12.10	2.63	1.86
FEO	0.00	9.17	7.21
CAO	8.11	8.59	8.66
MGO	3.47	3.68	5.15
NA2O	2.17	2.30	4.19
K2O	1.21	1.28	1.54
TIO2	0.98	1.04	0.73
P2O5	0.40	0.42	0.34
MNO	0.24	0.25	0.20
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.62	0.00	0.00
TOTAL	94.42	100.00	100.00

NORMS	
Q	1.64
C	2.27
OR	7.70
AB	20.96
AN	40.47
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	10.30
FS	11.50
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.79
IL	1.47
CR	0.00
HM	0.00
AP	0.90
PQ	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	21.81
CPX	0.00
AB*	20.96

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.58 SIO2 48.83 SUBALKALINE

OL* 36.83 NE* 28.32 Q* 34.86 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 19.06 F 61.38 M 19.56 THOLEITIC

AL2O3 21.82 NORM PLAG 65.88 CALC-ALKALINE

AN 58.55 AB* 30.32 OR 11.14 AVERAGE SERIES

CI 26.06 NORM PLAG 65.88 BASALT

JENSEN THOLEIITIC DACITE
AL 61.47 FE 25.43 MG 13.09

COLOR INDEX : 26.06
HASHIMOTO INDEX : 31.28

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB	50.00:SR	820.00:Y	30.00:ZR	60.00:NB	10.00:BA	360.00:

COMMENTS : P0121/78N. ANDESITIC FLOW OR TUFF, GROUNDMASS F.G. AGGREGATE OF CHLORITE AND QTZ. WITH VARIED PLAGIOS.(20-45% OF 1-7MM
D

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:02:01

SAMPLE ID # AB15584

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613 | FIELD NUMBER : 86116PM198 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 424890.0 N : 5420500.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,OTHER ,FINE,SCHIST,CHLORITE,WHITE MICA.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE PLUS CHALCOPYRITE.
FORMATION :

SAMPLED BY : D. MONEY. | DATE : 11-JUN-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 06-AUG-86 | TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.80	56.17	53.05
AL2O3	18.10	20.41	22.72
FE2O3	8.06	2.62	1.86
FEO	0.00	5.83	4.60
CAO	6.16	6.95	7.03
MGO	2.20	2.48	3.49
NA2O	1.82	2.05	3.76
K2O	1.69	1.91	2.30
TIO2	0.82	0.92	0.66
P2O5	0.42	0.47	0.38
MNO	0.17	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.47	0.00	0.00
TOTAL	88.66	100.00	100.00

NORMS	
Q	15.42
C	3.87
OR	11.50
AB	18.79
AN	31.99
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	6.98
FS	6.34
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.79
IL	1.31
CR	0.00
HM	0.00
AP	1.01
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	13.32
CPX	0.00
AB*	18.79

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.96 SIO2 56.17 SUBALKALINE
OL* 21.02 NE* 23.72 Q* 55.26 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 27.08 F 55.95 M 16.97 THOLEITIC
AL2O3 20.41 NORM PLAG 63.00 CALC-ALKALINE
AN 51.37 AB* 30.17 OR 18.46 AVERAGE SERIES
CI 17.42 NORM PLAG 63.00 BASALT

JENSEN THOLEIITIC DACITE
AL 67.86 FE 21.71 MG 10.43

COLOR INDEX : 17.42
HASHIMOTO INDEX : 32.77

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	50.00:SR	390.00:Y	20.00:ZR	60.00:NB	20.00:BA	490.00:AU	6.00:LI	0.00:
BE	0.00:B	0.00:SC	0.00:V	0.00:MN	0.00:CO	0.00:NI	0.00:CU	14.00:ZN	520.00:
GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	0.00:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	10.00:BI	0.00:TH	0.00:U	0.00:				

COMMENTS : PS111/? ALTERNATE BANDS OF CHLORITE SCHIST AND QTZ-SERICITE WITH PY AND MINOR CPY CONCENTRATED IN FELSICS. BANDS OF SULPHIDE (UP TO 90%,2CM) SAMPLE HAS 2%. RECCE SAMPLE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
11:02:44

SAMPLE ID # AB15585 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116PM208 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424870.0 N : 5420115.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 11-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 16-JUL-86 TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	55.60	60.72	56.39
AL2O3	16.50	18.02	19.73
FE2O3	5.53	2.07	1.45
FEO	0.00	3.57	2.77
CAO	3.99	4.36	4.34
MGO	1.65	1.80	2.49
NA2O	3.02	3.30	5.94
K2O	4.78	5.22	6.19
TIO2	0.40	0.44	0.31
P2O5	0.27	0.29	0.23
MNO	0.19	0.21	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	7.00	0.00	0.00
TOTAL	91.57	100.00	100.00

NORMS	
Q	7.86
C	0.00
OR	30.96
AB	29.69
AN	18.99
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.34
HE	0.26
EN	4.82
FS	3.68
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.18
IL	0.61
CR	0.00
HM	0.00
AP	0.62
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	8.49
CPX	0.61
AB*	29.69

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.52 SIO2 60.72 ALKALINE
OL* 13.83 NE* 38.69 Q* 47.47 SUBALKALINE
CPX 6.65 OL 0.00 OPX 93.35 SUBALKALINE
A 54.07 F 34.49 M 11.44 THOLEITIC
AL2O3 18.02 NORM PLAG 39.01 CALC-ALKALINE
AN 23.84 AB* 37.28 OR 38.87 SODIC
CI - 11.88 NORM PLAG 39.01 HAWAIITE

JENSEN CALC-ALKALINE DACITE
AL 73.31 FE 17.43 MG 9.27

COLOR INDEX : 11.88
HASHIMOTO INDEX : 47.84

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	RB	SR	Y	ZR	NB	BA	
10.00:	100.00:	250.00:	30.00:	130.00:	30.00:	820.00:	

COMMENTS : PO116/76N. MASSIVE, LT. GREY RHYOLITIC TUFF WITH ANHEDRAL PLAGIOS (15%,1MM) AND <<1% DISSEM. PY.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15586 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116PM209 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 424850.0 N : 5420050.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 11-JUN-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 16-JUL-86 — TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.40	77.20	73.27
AL2O3	13.00	13.31	14.89
FE2O3	1.14	1.17	0.83
FEO	0.00	0.00	0.00
CAO	0.09	0.09	0.09
MGO	0.38	0.39	0.55
NA2O	1.50	1.54	2.83
K2O	5.93	6.07	7.36
TIO2	0.16	0.16	0.12
P2O5	0.05	0.05	0.04
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.23	0.00	0.00
TOTAL	97.67	100.00	100.00

NORMS	
Q	42.11
C	4.65
OR	36.80
AB	14.13
AN	0.13
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.10
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.03
CR	0.00
HM	0.83
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	1.10
CPX	0.00
AB*	14.13

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.61 SIO2 77.20 SUBALKALINE
OL* 1.44 NE* 14.78 Q* 83.78 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 84.09 F 11.61 M 4.30 CALC-ALKALINE
AL2O3 13.31 NORM PLAG 0.88 CALC-ALKALINE
AN 0.24 AB* 27.68 OR 72.08 K-RICH SERIES
CI 1.97 NORM PLAG 0.88 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 90.75 FE 5.89 MG 3.35

COLOR INDEX : 1.97
HASHIMOTO INDEX : 79.87

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 110.00:SR 80.00:Y -10.00:ZR 60.00:NB 20.00:BA 1120.00:

COMMENTS : PS134/550NE. SEMI-SCHISTOSE TUFF DACITIC AGGREGATE F.G. MATRIX OF PLAG, QTZ. AND SERICITE WITH 10% QTZ. AND AUGENS (2-8MM).

REPORT #2000

SAMPLE ID # AB15587 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM213
LOT : 0 CONCESSION :

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

GRID COORDINATES : E : 424970.0 N : 5419820.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,BLOCK ,HETEROGENEOUS ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 11-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86

ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.00	52.20	49.15
AL2O3	19.00	20.66	22.93
FE2O3	9.16	2.65	1.88
FEO	0.00	6.58	5.18
CAO	8.85	9.62	9.71
MGO	1.22	1.33	1.86
NA2O	2.46	2.68	4.88
K2O	2.45	2.66	3.20
TIO2	0.94	1.02	0.72
P2O5	0.39	0.42	0.34
MNO	0.16	0.17	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.62	0.00	0.00
TOTAL	91.96	100.00	100.00

NORMS	
Q	2.81
C	0.00
OR	16.02
AB	24.42
AN	37.11
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.33
HE	4.57
EN	2.56
FS	5.02
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.82
IL	1.45
CR	0.00
HM	0.00
AP	0.90
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	7.58
CPX	6.89
AB*	24.42

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.34 SIO2 52.20 SUBALKALINE

OL* 16.34 NE* 42.09 Q* 41.57 SUBALKALINE

CPX 47.62 OL 0.00 OPX 52.38 SUBALKALINE

A 34.16 F 57.35 M 8.49 THOLEITIC

AL2O3 20.66 NORM PLAG 60.32 CALC-ALKALINE

AN 47.86 AB* 31.49 OR 20.66 AVERAGE SERIES

CI 18.74 NORM PLAG 60.32 BASALT

JENSEN THOLEIITIC RHYOLITE
AL 70.10 FE 24.21 MG 5.69

COLOR INDEX : 18.74
HASHIMOTO INDEX : 24.50

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	-10.00:RB	60.00:SR	610.00:Y	10.00:ZR	50.00:NB	-10.00:BA	630.00:

COMMENTS : ANDESITIC TO DACITIC MATRIX OF VOLCANICLASTIC BLOCK BRECCIA, DK. GREEN, FINE GRAINED.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15589 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116PM285 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 426700.0 N : 5419740.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,BLOCK.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 19-JUN-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 16-JUL-86 — TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.80	52.75	49.02
AL203	20.20	21.40	23.44
FE203	10.60	2.58	1.81
FEO	0.00	7.78	6.04
CAO	2.51	2.66	2.65
MGO	2.84	3.01	4.17
NA2O	2.96	3.14	5.65
K2O	4.82	5.11	6.06
TIO2	0.94	1.00	0.70
P2O5	0.45	0.48	0.38
MNO	0.11	0.12	0.09
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.62	0.00	0.00
TOTAL	94.41	100.00	100.00

NORMS	
Q	1.15
C	7.69
OR	30.30
AB	28.25
AN	10.11
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	8.33
FS	9.07
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.71
IL	1.39
CR	0.00
HM	0.00
AP	1.00
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	17.41
CPX	0.00
AB*	28.25

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.24 SIO2 52.75 ALKALINE
OL* 27.89 NE* 36.21 Q* 35.90 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 38.60 F 47.32 M 14.09 THOLEITIC
AL203 21.40 NORM PLAG 26.35 CALC-ALKALINE
AN 14.72 AB* 41.14 OR 44.14 SODIC
CI 21.51 NORM PLAG 26.35 MUGEARITE
JENSEN THOLEIITIC DACITE
AL 64.67 FE 23.84 MG 11.50

COLOR INDEX : 21.51
HASHIMOTO INDEX : 58.34

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB	120.00:SR	250.00:Y	20.00:ZR	70.00:NB	-10.00:BA	680.00:

COMMENTS : PURPLE PYROCLASTIC UNIT FROM L16/710N. MODERATELY SCHISTOSE, WEAKLY FOLDED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:05:25

SAMPLE ID # AB15590 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116PM286 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 426260.0 N : 5419490.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,HOMOGENEOUS ,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 19-JUN-86 — ANALYTICAL TECHNIQUE :
ANALYZED BY : XRAL — DATE : 16-JUL-86

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.50	77.89	73.81
AL2O3	12.30	12.69	14.17
FE2O3	2.35	1.72	1.23
FEO	0.00	0.63	0.50
CAO	0.84	0.87	0.88
MGO	1.58	1.63	2.30
NA2O	2.63	2.71	4.98
K2O	1.54	1.59	1.92
TIO2	0.17	0.18	0.12
P2O5	0.04	0.04	0.03
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.93	0.00	0.00
TOTAL	96.93	100.00	100.00

NORMS	
Q	49.14
C	5.62
OR	9.61
AB	24.92
AN	4.12
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.60
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.25
IL	0.25
CR	0.00
HM	0.40
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.60
CPX	0.00
AB*	24.92

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.30 SIO2 77.89 SUBALKALINE

OL* 4.39 NE* 19.01 Q* 76.60 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 53.02 F 26.89 M 20.09 CALC-ALKALINE

AL2O3 12.69 NORM PLAG 14.20 THOLEITIC

AN 10.67 AB* 64.47 OR 24.87 AVERAGE SERIES

CI 6.50 NORM PLAG 14.20 DACITE

JENSEN CALC-ALKALINE DACITE
AL 77.15 FE 10.32 MG 12.53

COLOR INDEX : 6.50
HASHIMOTO INDEX : 47.34

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	60.00:SR	300.00:Y	-10.00:ZR	70.00:NB	10.00:BA	1120.00:

COMMENTS : MODERATELY SCHISTOSE CHLORITIC (DACITIC-ANDESITIC) TUFFACEOUS ROCK WITH APPROX. 10%, 1-3MM, ANHEDRAL PLAGIOCLASE GRAINS AND 4% AUGEN SHAPED QTZ. EYES. PS127/88NE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:06:05

SAMPLE ID # AB15591 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116PM292 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427120.0 N : 5420180.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,HETEROGENEOUS ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 21-JUN-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 16-JUL-86 — TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.40	56.18	52.51
AL2O3	16.50	17.69	19.49
FE2O3	12.20	2.54	1.79
FEO	0.00	9.48	7.41
CAO	2.44	2.62	2.62
MGO	6.46	6.93	9.65
NA2O	2.63	2.82	5.11
K2O	0.28	0.30	0.36
TIO2	0.87	0.93	0.66
P2O5	0.31	0.33	0.26
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.00	0.00	0.00
TOTAL	93.28	100.00	100.00

NORMS	
Q	16.09
C	9.66
OR	1.79
AB	25.55
AN	10.90
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	19.30
FS	12.02
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.68
IL	1.31
CR	0.00
HM	0.00
AP	0.70
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	31.31
CPX	0.00
AB*	25.55

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.12 SIO2 56.18 SUBALKALINE

OL* 32.19 NE* 21.01 Q* 46.80 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 14.30 F 53.95 M 31.75 THOLEITIC

AL2O3 17.69 NORM PLAG 29.91 CALC-ALKALINE

AN 28.51 AB* 66.80 OR 4.69 K-POOR SERIES

CI 35.30 NORM PLAG 29.91 ANDESITE

JENSEN HIGH IRON THOLEIITIC BASALT
AL 49.80 FE 25.55 MG 24.65

COLOR INDEX : 35.30
HASHIMOTO INDEX : 57.07

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	50.00:RB	10.00:SR	400.00:Y	30.00:ZR	40.00:NB	20.00:BA	480.00:

COMMENTS : PO OR PS131/88N. ANDESITIC CHLORITIC ROCK WITH 10-15%, 1MM ANHEDRAL PLAG. WITH INTERLAYED CHERTY SILTSTONE INDICATING TOPS TO SOUTH, ALSO CONTAINING 10CM CHERT FRAGMENTS OR RHYOLITIC LAPILLI.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:06:45

SAMPLE ID # AB15593 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613 — FIELD NUMBER : 86116PM324 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 426483.0 N : 5419265.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PLUS FELDSPAR PORPHRYITIC,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 22-JUN-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 06-AUG-86 — TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	59.80	62.04	57.92
AL203	16.90	17.53	19.29
FE203	6.97	1.95	1.37
FE0	0.00	4.75	3.71
CA0	4.81	4.99	4.99
MG0	2.20	2.28	3.18
NA20	3.41	3.54	6.40
K20	2.07	2.15	2.56
TI02	0.38	0.39	0.28
P205	0.21	0.22	0.17
MN0	0.15	0.16	0.12
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
L0I	2.54	0.00	0.00
TOTAL	96.39	100.00	100.00

NORMS	
Q	15.57
C	0.92
OR	12.80
AB	32.02
AN	23.52
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	6.35
FS	5.74
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.06
IL	0.55
CR	0.00
HM	0.00
AP	0.46
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	12.09
CPX	0.00
AB*	32.02

CLASSIFICATIONS AND INDICES

NA20+K20 5.69 SI02 62.04 SUBALKALINE
OL* 15.20 NE* 32.19 Q* 52.62 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 39.28 F 44.95 M 15.77 THOLEITIC
AL203 17.53 NORM PLAG 42.35 CALC-ALKALINE
AN 34.42 AB* 46.85 OR 18.73 AVERAGE SERIES
CI 14.70 NORM PLAG 42.35 ANDESITE

JENSEN CALC-ALKALINE ANDESITE
AL 69.03 FE 19.61 MG 11.36

COLOR INDEX : 14.70
HASHIMOTO INDEX : 34.19

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	70.00:SR	430.00:Y	20.00:ZR	140.00:NB	10.00:BA	1060.00:AU	-10.00:LI	-10.00:
BE	-10.00:B	10.00:SC	12.90:V	110.00:MN	0.00:CO	10.00:NI	11.00:CU	91.00:ZN	88.00:
GE	-10.00:AS	13.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.50:CS	-2.20:
LA	46.60:CE	67.00:ND	16.00:SM	4.50:EU	1.30:YB	1.80:LU	0.46:HF	3.00:TA	-2.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	8.30:U	3.90:				

COMMENTS : DACITIC TUFF WITH PLAGIOCLASE GRAINS AND QTZ. EYES, PROBABLY ALTERED BY GABBROS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
11:07:28

SAMPLE ID # AB15595 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM324CG
LOT : 0 CONCESSION :
GRID COORDINATES : E : 426495.0 N : 5419260.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,COARSE,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 22-JUN-86
DATE : 16-JUL-86

ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.50	48.66	45.77
AL2O3	13.00	13.60	15.08
FE2O3	11.40	2.31	1.64
FEO	0.00	8.65	6.81
CAO	14.80	15.49	15.61
MGO	8.55	8.95	12.54
NA2O	0.53	0.55	1.01
K2O	0.45	0.47	0.57
TIO2	0.71	0.74	0.53
P2O5	0.31	0.32	0.26
MNO	0.23	0.24	0.19
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	95.56	100.00	100.00

NORMS	
Q	0.91
C	0.00
OR	2.83
AB	5.06
AN	33.76
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	23.23
HE	10.47
EN	13.47
FS	6.07
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.46
IL	1.05
CR	0.00
HM	0.00
AP	0.69
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	19.54
CPX	33.70
AB*	5.06

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.03 SIO2 48.66 SUBALKALINE

OL* 57.46 NE* 11.89 Q* 30.65 SUBALKALINE

CPX 63.29 OL 0.00 OPX 36.71 ALKALINE

A 4.95 F 51.84 M 43.21 THOLEITIC

AL2O3 13.60 NORM PLAG 86.97 THOLEITIC

AN 81.07 AB* 12.14 OR 6.79 AVERAGE SERIES

CI 56.75 NORM PLAG 86.97 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 41.00 FE 24.90 MG 34.09

COLOR INDEX : 56.75
HASHIMOTO INDEX : 36.99

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 390.00	RB -10.00	SR 440.00	Y 10.00	ZR 50.00	NB 10.00	BA 690.00

COMMENTS : COARSE GRAINED GABBRO FROM SOUTH OF AB15593,94 (4 LIES BETWEEN 3 AND 5).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:08:08

SAMPLE ID # AB15596

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28613
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM335
LOT : 0 CONCESSION :
GRID COORDINATES : E : 425820.0 N : 5419975.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,0.02 TO <0.05%.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 22-JUN-86
DATE : 06-AUG-86

ANALYTICAL TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	77.50	79.80	76.49
AL2O3	12.20	12.56	14.19
FE2O3	0.78	0.80	0.58
FEO	0.00	0.00	0.00
CAO	0.13	0.13	0.14
MGO	0.58	0.60	0.85
NA2O	0.59	0.61	1.13
K2O	5.11	5.26	6.44
TIO2	0.17	0.18	0.13
P2O5	0.05	0.05	0.04
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.12	100.00	100.00

NORMS	
Q	52.79
C	6.49
OR	32.21
AB	5.64
AN	0.34
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.71
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.02
CR	0.00
HM	0.58
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.12
AG	0.00
OL	0.00
OPX	1.71
CPX	0.00
AB*	5.64

CLASSIFICATIONS AND INDICES

NA2O+K2O	5.87	SIO2	79.80	SUBALKALINE		
OL*	2.13	NE*	5.63	Q*	92.24	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	81.64	F	10.05	M	8.31	CALC-ALKALINE
AL2O3	12.56	NORM PLAG	5.66	CALC-ALKALINE		
AN	0.89	AB*	14.78	OR	84.33	K-RICH SERIES
CI	2.30	NORM PLAG	5.66	RHYOLITE		

JENSEN CALC-ALKALINE RHYOLITE
AL 90.06 FE 4.53 MG 5.41

COLOR INDEX : 2.30
HASHIMOTO INDEX : 88.77

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	70.00:SR	30.00:Y	-10.00:ZR	70.00:NB	20.00:BA	610.00:AU	-10.00:LI	-10.00:
BE	-10.00:B	50.00:SC	2.40:V	10.00:MN	70.00:CO	1.00:NI	3.00:CU	3.50:ZN	16.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.20:CS	1.70:
LA	16.00:CE	25.00:ND	10.00:SM	1.40:EU	-0.20:YB	1.20:LU	0.25:HF	3.00:TA	-1.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	5.20:U	1.00:				

COMMENTS : PA112/??. QTZ-SERICITE SCHIST WITH 3-5%, 3-6MM QTZ. EYES, WEAKLY FOLDED AND RUSTY. EX RHYODACITE QTZ. CRYSTAL TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:08:51

SAMPLE ID # AB15597 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116PM337 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427800.0 N : 5418480.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. — DATE : 23-JUN-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 16-JUL-86 — TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	66.50	71.04	66.50
AL2O3	12.60	13.46	14.85
FE2O3	2.87	1.94	1.37
FEO	0.00	1.01	0.79
CAO	4.56	4.87	4.89
MGO	1.20	1.28	1.79
NA2O	3.64	3.89	7.06
K2O	1.84	1.97	2.35
TIO2	0.32	0.34	0.24
P2O5	0.08	0.09	0.07
MNO	0.11	0.12	0.09
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.08	0.00	0.00
TOTAL	93.61	100.00	100.00

NORMS	
Q	29.00
C	0.00
OR	11.75
AB	35.29
AN	13.61
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	7.15
HE	0.00
EN	0.00
FS	0.00
FO	0.00
FA	0.00
WO	0.52
LN	0.00
MT	1.93
IL	0.48
CR	0.00
HM	0.08
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.00
CPX	7.15
AB*	35.29

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.85 SIO2 71.04 SUBALKALINE
OL* 0.00 NE* 32.93 Q* 67.07 SUBALKALINE
CPX100.00 OL 0.00 OPX 0.00 ALKALINE
A 59.16 F 27.88 M 12.96 CALC-ALKALINE
AL2O3 13.46 NORM PLAG 27.84 THOLEITIC
AN 22.44 AB* 58.18 OR 19.37 AVERAGE SERIES
CI 9.65 NORM PLAG 27.84 DACITE

JENSEN CALC-ALKALINE DACITE
AL 77.62 FE 13.03 MG 9.35

COLOR INDEX : 9.65
HASHIMOTO INDEX : 27.05

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 30.00:SR 210.00:Y 20.00:ZR 130.00:NB 10.00:BA 740.00:

COMMENTS : RHYODACITIC TUFF WITH 1-10%, 1MM QTZ. EYES (AVERAGE 3%). MODERATELY RUSTY. P0158/71W.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
SAMPLE ID # AB15599 WHOLE ROCK GEOCHEMICAL ANALYSIS 11:09:31

LAB REPORT # 24105 FIELD NUMBER : 86116PM346WR PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425635.0 N : 5420137.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 26-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.30	50.95	48.22
AL2O3	17.10	19.23	21.45
FE2O3	10.20	2.53	1.80
FEO	0.00	8.05	6.37
CAO	9.54	10.73	10.88
MGO	3.22	3.62	5.11
NA2O	1.31	1.47	2.70
K2O	1.76	1.98	2.39
TIO2	0.75	0.84	0.60
P2O5	0.30	0.34	0.27
MNO	0.23	0.26	0.21
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	9.70	0.00	0.00
TOTAL	88.91	100.00	100.00

NORMS	
Q	4.14
C	0.00
OR	11.96
AB	13.52
AN	40.89
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	4.51
HE	4.48
EN	7.96
FS	7.90
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.70
IL	1.20
CR	0.00
HM	0.00
AP	0.72
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	15.86
CPX	9.00
AB*	13.52

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.45 SIO2 50.95 SUBALKALINE

OL* 35.49 NE* 24.19 Q* 40.31 SUBALKALINE

CPX 36.20 OL 0.00 OPX 63.80 SUBALKALINE

A 19.85 F 59.34 M 20.82 THOLEITIC

AL2O3 19.23 NORM PLAG 75.16 CALC-ALKALINE

AN 61.61 AB* 20.36 OR 18.02 AVERAGE SERIES

CI 28.77 NORM PLAG 75.16 BASALT

JENSEN THOLEIITIC DACITE
AL 60.37 FE 25.26 MG 14.37

COLOR INDEX : 28.77
HASHIMOTO INDEX : 31.46

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	90.00:SR	610.00:Y	10.00:ZR	40.00:NB	10.00:BA	520.00:

COMMENTS : PS138/61NE. CHLORITE SCHIST WITH EPIDOTE (3-8%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:10:11

SAMPLE ID # AB15603 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM146 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427005.0 N : 5420835.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 21-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	43.20	46.38	43.46
AL2O3	13.70	14.71	16.25
FE2O3	14.40	5.14	3.63
FEO	0.00	9.28	7.28
CAO	6.88	7.39	7.42
MGO	8.55	9.18	12.82
NA2O	2.87	3.08	5.60
K2O	0.08	0.09	0.10
TIO2	3.29	3.53	2.49
P2O5	0.91	0.98	0.78
MNO	0.22	0.24	0.19
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.47	0.00	0.00
TOTAL	93.14	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	0.51
AB	27.99
AN	26.36
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.73
HE	0.67
EN	21.02
FS	5.18
FO	2.44
FA	0.60
WO	0.00
LN	0.00
MT	5.44
IL	4.98
CR	0.00
HM	0.00
AP	2.07
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	3.04
OPX	26.20
CPX	3.40
AB*	27.99

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.17 SIO2 46.38 SUBALKALINE
OL* 39.65 NE* 29.34 Q* 31.01 SUBALKALINE
CPX 10.41 OL 9.33 OPX 80.26 SUBALKALINE
A 12.06 F 52.98 M 34.96 THOLEITIC
AL2O3 14.71 NORM PLAG 48.50 THOLEITIC
AN 48.05 AB* 51.01 OR 0.94 K-POOR SERIES
CI 43.06 NORM PLAG 48.50 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 38.10 FE 31.84 MG 30.06

COLOR INDEX : 43.06
HASHIMOTO INDEX : 46.95

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 210.00:RB	10.00:SR	950.00:Y	30.00:ZR	530.00:NB	80.00:BA	100.00:

COMMENTS : PS144/77SW. CALCITE-CHLORITE SCHIST, LIKELY A MAFIC TUFF.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:10:51

SAMPLE ID # AB15604 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM147 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427775.0 N : 5420826.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 21-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	44.50	47.29	43.96
AL2O3	12.70	13.50	14.79
FE2O3	13.20	4.60	3.22
FEO	0.00	8.48	6.59
CAO	8.05	8.55	8.52
MGO	9.19	9.77	13.53
NA2O	3.10	3.29	5.94
K2O	0.39	0.41	0.49
TIO2	2.83	3.01	2.10
P2O5	0.85	0.90	0.71
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.85	0.00	0.00
TOTAL	94.10	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	2.46
AB	29.68
AN	20.90
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	10.31
HE	2.31
EN	10.79
FS	2.42
FO	8.34
FA	1.87
WO	0.00
LN	0.00
MT	4.83
IL	4.20
CR	0.00
HM	0.00
AP	1.90
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	10.21
OPX	13.20
CPX	12.62
AB*	29.68

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.71 SIO2 47.29 ALKALINE
OL* 37.88 NE* 33.54 Q* 28.58 SUBALKALINE
CPX 35.02 OL 28.33 OPX 36.65 SUBALKALINE
A 14.21 F 48.37 M 37.42 THOLEITIC
AL2O3 13.50 NORM PLAG 41.31 THOLEITIC
AN 39.40 AB* 55.97 OR 4.64 SODIC
CI 45.06 NORM PLAG 41.31 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 36.62 FE 29.88 MG 33.50

COLOR INDEX : 45.06
HASHIMOTO INDEX : 46.21

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR 160.00:RB 30.00:SR 320.00:Y 30.00:ZR 390.00:NB 70.00:BA 130.00:

COMMENTS : CHLORITE SCHIST, POSSIBLE INTERMEDIATE TO MAFIC COMPOSITION VOLCANICLASTIC.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15605 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116DM148 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427350.0 N : 5420817.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 21-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.40	48.21	44.90
AL2O3	13.50	14.33	15.74
FE2O3	13.00	4.53	3.18
FEO	0.00	8.34	6.50
CAO	8.48	9.00	8.99
MGO	6.49	6.89	9.57
NA2O	4.12	4.37	7.90
K2O	0.20	0.21	0.25
TIO2	2.77	2.94	2.06
P2O5	0.91	0.97	0.76
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.08	0.00	0.00
TOTAL	94.18	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	1.26
AB	39.50
AN	18.96
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	11.94
HE	3.74
EN	2.12
FS	0.66
FO	8.29
FA	2.60
WO	0.00
LN	0.00
MT	4.77
IL	4.12
CR	0.00
HM	0.00
AP	2.03
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	10.88
OPX	2.78
CPX	15.69
AB*	39.50

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.59 SIO2 48.21 ALKALINE
OL* 24.39 NE* 44.58 Q* 31.03 ALKALINE
CPX 53.45 OL 37.08 OPX 9.47 SUBALKALINE
A 19.19 F 51.97 M 28.83 THOLEITIC
AL2O3 14.33 NORM PLAG 32.44 THOLEITIC
AN 31.75 AB* 66.13 OR 2.11 SODIC
CI 38.24 NORM PLAG 32.44 HAWAIITE

JENSEN HIGH IRON THOLEIITIC BASALT
AL 42.32 FE 31.96 MG 25.72

COLOR INDEX : 38.24
HASHIMOTO INDEX : 34.68

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 140.00:RB	10.00:SR	660.00:Y	30.00:ZR	450.00:NB	80.00:BA	160.00:

COMMENTS : PS137/73SW. RELATIVELY MASSIVE, FINE GRAINED, MED. TO DK. GREEN, MODERATELY CHLORITIC VOLCANIC ROCK. ELLIPTICALLY SHAPED CALCITE GRAINS RANDOMLY DIST. THROUGHOUT (2 X 1MM, <1%). POSSIBLE VOLCANICLASTIC.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:12:12

SAMPLE ID # AB15606

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM149
LOT : 0 CONCESSION :
GRID COORDINATES : E : 427155.0 N : 5420815.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 21-JUN-86
DATE : 16-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	44.00	48.07	45.69
AL203	14.20	15.51	17.38
FE203	13.90	4.92	3.52
FE0	0.00	9.24	7.35
CA0	4.47	4.88	4.97
MG0	8.30	9.07	12.85
NA20	0.52	0.57	1.05
K20	2.82	3.08	3.74
TI02	3.00	3.28	2.34
P205	0.94	1.03	0.83
MN0	0.33	0.36	0.29
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	6.23	0.00	0.00
TOTAL	91.54	100.00	100.00

NORMS	
Q	7.76
C	5.41
OR	18.70
AB	5.23
AN	17.97
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	25.69
FS	7.07
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	5.27
IL	4.69
CR	0.00
HM	0.00
AP	2.21
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	32.76
CPX	0.00
AB*	5.23

CLASSIFICATIONS AND INDICES

NA20+K20 3.65 SI02 48.07 SUBALKALINE

OL* 53.70 NE* 6.86 Q* 39.44 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 13.83 F 51.80 M 34.37 THOLEITIC

AL203 15.51 NORM PLAG 77.44 THOLEITIC

AN 42.88 AB* 12.49 OR 44.63 K-RICH SERIES

CI 42.72 NORM PLAG 77.44 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 39.75 FE 30.87 MG 29.38

COLOR INDEX : 42.72
HASHIMOTO INDEX : 69.03

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	150.00:RB	40.00:SR	170.00:Y	20.00:ZR	500.00:NB	100.00:BA	1950.00:

COMMENTS : PS139/80NE. CHLORITIC SCHIST (MAFIC LAPILLI TUFF). EQUANT TO ANGULAR SHAPED CHLORITIZED MAFIC FRAGMENTS UP TO 2CM MEAN SIZE (4-7MM, 40%). CALCITE IS FINE GRAINED CONSTITUANT (10-15%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:12:53

SAMPLE ID # AB15609 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM177 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427875.0 N : 5418300.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 23-JUN-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 16-JUL-86 — TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.20	76.46	71.80
AL2O3	13.60	14.01	15.51
FE2O3	1.71	1.76	1.25
FEO	0.00	0.00	0.00
CAO	0.53	0.55	0.55
MGO	0.72	0.74	1.04
NA2O	3.55	3.66	6.66
K2O	2.37	2.44	2.93
TIO2	0.26	0.27	0.19
P2O5	0.06	0.06	0.05
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.04	100.00	100.00

NORMS	
Q	41.06
C	4.99
OR	14.64
AB	33.30
AN	2.34
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.08
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.07
CR	0.00
HM	1.25
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.16
AG	0.00
OL	0.00
OPX	2.08
CPX	0.00
AB*	33.30

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.10 SIO2 76.46 SUBALKALINE
OL* 2.04 NE* 26.14 Q* 71.82 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 72.38 F 18.81 M 8.80 CALC-ALKALINE
AL2O3 14.01 NORM PLAG 6.56 CALC-ALKALINE
AN 4.65 AB* 66.23 OR 29.13 K-RICH SERIES
CI 3.39 NORM PLAG 6.56 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.09 FE 8.14 MG 5.76

COLOR INDEX : 3.39
HASHIMOTO INDEX : 43.10

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	50.00:SR	150.00:Y	10.00:ZR	110.00:NB	20.00:BA	950.00:

COMMENTS : PS118/80NE. ANDESITIC TO DACITIC COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF. PALE, TRANSLUCENT AGGREGATE OF CHLORITE, SERICITE AND QTZ. (80% OF MODE). WHITE FELDSPAR GRAINS (1-1.5MM, <10%), VITREOUS CLEAR QTZ. GRAINS (3 X 1-1.5MM, <5%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15610 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116DM178 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427920.0 N : 5418250.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 23-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 16-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.50	78.38	74.15
AL203	12.40	12.70	14.17
FE203	2.05	1.76	1.25
FEO	0.00	0.30	0.24
CAO	0.23	0.24	0.24
MGO	0.85	0.87	1.23
NA20	3.02	3.09	5.68
K20	2.25	2.31	2.79
TIO2	0.22	0.23	0.16
P205	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.61	100.00	100.00

NORMS	
Q	47.23
C	5.39
OR	13.93
AB	28.38
AN	0.78
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.46
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.39
IL	0.32
CR	0.00
HM	1.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.46
CPX	0.00
AB*	28.38

CLASSIFICATIONS AND INDICES

NA20+K20 5.40 SIO2 78.38 SUBALKALINE
OL* 2.36 NE* 21.81 Q* 75.83 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 66.17 F 23.16 M 10.67 CALC-ALKALINE
AL203 12.70 NORM PLAG 2.69 CALC-ALKALINE
AN 1.82 AB* 65.86 OR 32.32 K-RICH SERIES
CI 4.16 NORM PLAG 2.69 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.85 FE 9.97 MG 7.18

COLOR INDEX : 4.16
HASHIMOTO INDEX : 48.82

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	60.00:SR	130.00:Y	20.00:ZR	100.00:NB	20.00:BA	720.00:

COMMENTS : PS137/31NE. QTZ-CHLORITE-SERICITE SCHIST. RANDOMLY DISTRIBUTED THROUGHOUT THE FINE GRAINED, LT. GREEN MATRIX ARE SUBEQUANT TO EQUANT YELLOW-WHITE FELDSPAR GRAINS (1MM, <10%). LIKELY FELDSPAR CRYSTAL DACITIC TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15611 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116DM179 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427947.0 N : 5418210.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 23-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 16-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.30	74.68	69.89
AL2O3	14.20	14.67	16.18
FE2O3	2.08	1.81	1.27
FEO	0.00	0.31	0.24
CAO	0.18	0.19	0.19
MGO	1.33	1.37	1.92
NA2O	3.35	3.46	6.28
K2O	3.04	3.14	3.75
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.47	0.00	0.00
TOTAL	96.82	100.00	100.00

NORMS	
Q	37.67
C	5.94
OR	18.77
AB	31.39
AN	0.52
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.83
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.32
IL	0.36
CR	0.00
HM	1.06
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.83
CPX	0.00
AB*	31.39

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.60 SIO2 74.68 SUBALKALINE
OL* 3.94 NE* 25.84 Q* 70.22 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 66.62 F 19.51 M 13.87 CALC-ALKALINE
AL2O3 14.67 NORM PLAG 1.64 CALC-ALKALINE
AN 1.03 AB* 61.94 OR 37.03 K-RICH SERIES
CI 5.58 NORM PLAG 1.64 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.55 FE 8.79 MG 9.66

COLOR INDEX : 5.58
HASHIMOTO INDEX : 55.32

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB	60.00:SR	90.00:Y	20.00:ZR	100.00:NB	-10.00:BA	860.00:

COMMENTS : PS129/89SW. AS DESCRIBED IN AB15610.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:14:54

SAMPLE ID # AB15612 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM180 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427965.0 N : 5418190.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 23-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.40	73.94	69.95
AL2O3	14.00	14.50	16.17
FE2O3	2.38	1.84	1.31
FEO	0.00	0.56	0.44
CAO	1.78	1.84	1.87
MGO	1.17	1.21	1.71
NA2O	2.13	2.21	4.05
K2O	3.33	3.45	4.17
TIO2	0.28	0.29	0.21
P2O5	0.08	0.08	0.07
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.39	0.00	0.00
TOTAL	96.57	100.00	100.00

NORMS	
Q	40.09
C	4.44
OR	20.83
AB	20.23
AN	8.79
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.42
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.91
IL	0.41
CR	0.00
HM	0.71
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.42
CPX	0.00
AB*	20.23

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.65 SIO2 73.94 SUBALKALINE
OL* 4.02 NE* 19.04 Q* 76.94 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.25 F 24.41 M 13.34 CALC-ALKALINE
AL2O3 14.50 NORM PLAG 30.29 CALC-ALKALINE
AN 17.63 AB* 40.58 OR 41.79 K-RICH SERIES
CI 5.44 NORM PLAG 30.29 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.23 FE 10.19 MG 8.58

COLOR INDEX : 5.44
HASHIMOTO INDEX : 53.51

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	90.00:SR	150.00:Y	-10.00:ZR	100.00:NB	10.00:BA	930.00:

COMMENTS : PS137/54NE. QTZ-FELDSPAR CRYSTAL TUFF. LT. GREEN APHANITIC CRYSTALLINITY. MATRIX IS AN AGGREGATE OF QTZ., CHLORITE, AND SERICITE. VITREOUS BLUE QTZ. EYES (5MM, <2%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15613 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116DM183 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428027.0 N : 5418137.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 23-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	40.10	45.94	43.60
AL2O3	17.70	20.28	22.69
FE2O3	11.80	2.61	1.87
FEO	0.00	9.81	7.79
CAO	8.94	10.24	10.42
MGO	2.93	3.36	4.75
NA2O	0.20	0.23	0.42
K2O	5.32	6.09	7.39
TIO2	0.78	0.89	0.64
P2O5	0.29	0.33	0.27
MNO	0.19	0.22	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	10.70	0.00	0.00
TOTAL	87.30	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	20.80
AB	0.00
AN	37.19
LC	12.91
NE	1.26
KP	0.00
AC	0.00
DI	4.32
HE	5.81
EN	0.00
FS	0.00
FO	5.50
FA	7.41
WO	0.00
LN	0.00
MT	2.80
IL	1.28
CR	0.00
HM	0.00
AP	0.71
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	12.92
OPX	0.00
CPX	10.13
AB*	2.11

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.32 SIO2 45.94 ALKALINE

OL* 91.08 NE* 8.92 Q* 0.00 ALKALINE

CPX 43.96 OL 56.04 OPX 0.00 SUBALKALINE

A 28.95 F 55.68 M 15.37 THOLEITIC

AL2O3 20.28 NORM PLAG 94.64 CALC-ALKALINE

AN 61.88 AB* 3.51 OR 34.61 SODIC

CI 27.12 NORM PLAG 94.64 ANKARAMITE

JENSEN THOLEIITIC ANDESITE
AL 59.85 FE 27.62 MG 12.53

COLOR INDEX : 27.12
HASHIMOTO INDEX : 47.44

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 60.00:RB 90.00:SR 180.00:Y 20.00:ZR 40.00:NB 20.00:BA 1020.00:

COMMENTS : PS144/90. O/C IS DOMINANTLY QTZ-FELDSPAR CRYSTAL TUFF, ANDESITIC TO DACITIC IN COMP. DM183 IS CALCITE-CHLORITE SCHIST, APHANITIC CRYSTALLINITY, POSSIBLY MORE MAFIC COMP. ACRYSTALLINE TUFF BED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:16:15

SAMPLE ID # AB15614

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM184
LOT : 0 CONCESSION :
GRID COORDINATES : E : 428055.0 N : 5418125.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 23-JUN-86
DATE : 16-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	71.20	73.89	69.81
AL203	13.80	14.32	15.95
FE203	2.40	1.81	1.28
FE0	0.00	0.62	0.49
CA0	1.47	1.53	1.54
MG0	1.56	1.62	2.28
NA20	2.05	2.13	3.90
K20	3.57	3.71	4.47
TI02	0.24	0.25	0.18
P205	0.06	0.06	0.05
MN0	0.07	0.07	0.06
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
L0I	3.31	0.00	0.00
TOTAL	96.35	100.00	100.00

NORMS	
Q	39.50
C	4.66
OR	22.35
AB	19.48
AN	7.31
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.56
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.10
IL	0.35
CR	0.00
HM	0.55
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.56
CPX	0.00
AB*	19.48

CLASSIFICATIONS AND INDICES

NA20+K20 5.83 SI02 73.89 SUBALKALINE

OL* 5.38 NE* 18.40 Q* 76.22 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 60.17 F 23.12 M 16.70 CALC-ALKALINE

AL203 14.32 NORM PLAG 27.27 CALC-ALKALINE

AN 14.87 AB* 39.65 OR 45.48 K-RICH SERIES

CI 6.56 NORM PLAG 27.27 DACITE

JENSEN CALC-ALKALINE DACITE
AL 78.82 FE 9.91 MG 11.27

COLOR INDEX : 6.56
HASHIMOTO INDEX : 59.31

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	90.00:SR	60.00:Y	-10.00:ZR	110.00:NB	10.00:BA	900.00:

COMMENTS : PS130/86NE. QTZ-FELDSPAR CRYSTAL TUFF, ANDESITIC TO DACITIC IN COMP. MATRIX IS LT. TO MED. GREEN. RANDOMLY DISTRIBUTED AND ORIENTED THROUGHOUT ARE ANHEDRAL, GREENISH-WHITE FELDSP. (1MM,7%). SPHERICAL, VITREOUS BLUISH QTZ. GRAINS (2%,4MM.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15615 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116DM186 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428186.0 N : 5418020.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 23-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	73.60	75.82	71.24
AL203	14.00	14.42	15.97
FE203	2.03	1.81	1.28
FEO	0.00	0.25	0.20
CAO	0.20	0.21	0.21
MGO	0.84	0.87	1.21
NA20	3.32	3.42	6.23
K2O	2.73	2.81	3.37
TI02	0.26	0.27	0.19
P205	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.07	100.00	100.00

NORMS	
Q	40.96
C	6.12
OR	16.87
AB	31.15
AN	0.63
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.42
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.17
IL	0.38
CR	0.00
HM	1.17
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.42
CPX	0.00
AB*	31.15

CLASSIFICATIONS AND INDICES

NA20+K20 6.23 SI02 75.82 SUBALKALINE
OL* 2.44 NE* 25.08 Q* 72.49 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 69.41 F 20.96 M 9.64 CALC-ALKALINE
AL203 14.42 NORM PLAG 1.97 CALC-ALKALINE
AN 1.29 AB* 64.03 OR 34.68 K-RICH SERIES
CI 4.14 NORM PLAG 1.97 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 84.50 FE 9.08 MG 6.41

COLOR INDEX : 4.14
HASHIMOTO INDEX : 50.35

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 60.00:SR 100.00:Y 10.00:ZR 110.00:NB 20.00:BA 840.00:

COMMENTS : PS130/86NE. FELDSPAR-QTZ. CRYSTAL TUFF, ANDESITIC TO DACITIC IN COMP. MATRIX IS LT. TO MED. GREEN AGGREGATE OF QUARTZ AND CHLORITE. VITREOUS, GREY TO CLEAR QTZ. EYES (3 X 2MM, 10%), FELDSPAR, 1MM, <5%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:17:36

SAMPLE ID # AB15616 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM187 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 428725.0 N : 5417630.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 23-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	69.90	72.92	67.61
AL2O3	12.90	13.46	14.71
FE2O3	2.36	1.78	1.24
FEO	0.00	0.61	0.47
CAO	3.08	3.21	3.19
MGO	0.67	0.70	0.97
NA2O	5.18	5.40	9.71
K2O	1.47	1.53	1.82
TIO2	0.21	0.22	0.15
P2O5	0.06	0.06	0.05
MNO	0.10	0.10	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.23	0.00	0.00
TOTAL	95.86	100.00	100.00

NORMS	
Q	27.36
C	0.00
OR	9.08
AB	48.56
AN	7.94
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	3.86
HE	0.00
EN	0.00
FS	0.00
FO	0.00
FA	0.00
WO	1.11
LN	0.00
MT	1.21
IL	0.31
CR	0.00
HM	0.44
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.00
CPX	3.86
AB*	48.56

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.94 SIO2 72.92 SUBALKALINE

OL* 0.00 NE* 38.38 Q* 61.62 SUBALKALINE

CPX100.00 OL 0.00 OPX 0.00 ALKALINE

A 70.42 F 22.49 M 7.09 CALC-ALKALINE

AL2O3 13.46 NORM PLAG 14.06 CALC-ALKALINE

AN 12.11 AB* 74.05 OR 13.84 AVERAGE SERIES

CI 5.82 NORM PLAG 14.06 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.44 FE 11.08 MG 5.48

COLOR INDEX : 5.82
HASHIMOTO INDEX : 20.58

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB	50.00:SR	200.00:Y	20.00:ZR	100.00:NB	20.00:BA	590.00:

COMMENTS : PS116/56NE. QTZ-FELD. CRYSTAL TUFF, ANDESITIC COMP. F. GRAINED, GREY-GREEN AGGREG. OF CALCITE, CHLORITE, SERICITE, 90% . VITREOUS, ELLIPTICAL, BLUISH-CLEAR QTZ. EYES (3X2MM MEAN,10X2MM MAX.,3% OF MODE). FLDSPR,1MM,<7%, ANDHED., BLOCKY.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:18:17

SAMPLE ID # AB15617 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM188 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427945.0 N : 5418290.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 26-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.00	76.25	71.97
AL2O3	12.50	12.88	14.33
FE2O3	2.37	1.78	1.27
FEO	0.00	0.59	0.47
CAO	1.76	1.81	1.83
MGO	1.18	1.22	1.71
NA2O	3.12	3.21	5.88
K2O	1.82	1.88	2.26
TIO2	0.23	0.24	0.17
P2O5	0.05	0.05	0.04
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.93	0.00	0.00
TOTAL	97.05	100.00	100.00

NORMS	
Q	42.30
C	2.66
OR	11.30
AB	29.41
AN	8.83
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.42
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.10
IL	0.34
CR	0.00
HM	0.53
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.42
CPX	0.00
AB*	29.41

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.09 SIO2 76.25 SUBALKALINE
OL* 3.41 NE* 23.49 Q* 73.10 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 59.86 F 25.84 M 14.30 CALC-ALKALINE
AL2O3 12.88 NORM PLAG 23.08 THOLEITIC
AN 17.82 AB* 59.37 OR 22.81 AVERAGE SERIES
CI 5.39 NORM PLAG 23.08 DACITE

JENSEN CALC-ALKALINE DACITE
AL 79.57 FE 10.93 MG 9.50

COLOR INDEX : 5.39
HASHIMOTO INDEX : 38.07

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 60.00:SR 200.00:Y -10.00:ZR 80.00:NB 20.00:BA 990.00:

COMMENTS : PS143/65NE. QTZ-FELDSPAR CRYSTAL TUFF, DACITIC TO ANDESITIC COMP. QTZ. GRAINS UP TO 2MM, VITREOUS GREY TO BLUISH, <3%. FELDSPARS, YELLOWISH-WHITE (1MM,10-15%). GREEN, FINE GRAINED AGGREGATE OF CHLORITE AND WHITE MICA FORMS MATRIX.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:18:58

SAMPLE ID # AB15618 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 — FIELD NUMBER : 86116DM189 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 428006.0 N : 5418165.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 26-JUN-86
ANALYZED BY : XRAL — DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.20	75.10	70.54
AL2O3	14.10	14.47	16.02
FE2O3	2.30	1.80	1.27
FEO	0.00	0.51	0.40
CAO	0.73	0.75	0.75
MGO	1.22	1.25	1.75
NA2O	3.29	3.38	6.15
K2O	2.30	2.36	2.83
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	97.46	100.00	100.00

NORMS	
Q	40.51
C	5.69
OR	14.15
AB	30.73
AN	3.36
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.50
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.82
IL	0.36
CR	0.00
HM	0.72
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.50
CPX	0.00
AB*	30.73

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.74 SIO2 75.10 SUBALKALINE
OL* 3.52 NE* 24.67 Q* 71.82 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.95 F 23.31 M 13.74 CALC-ALKALINE
AL2O3 14.47 NORM PLAG 9.86 CALC-ALKALINE
AN 6.96 AB* 63.70 OR 29.34 K-RICH SERIES
CI 5.41 NORM PLAG 9.86 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.41 FE 9.69 MG 8.91

COLOR INDEX : 5.41
HASHIMOTO INDEX : 46.68

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	RB	SR	Y	ZR	NB	BA	
	10.00:	40.00:	140.00:	30.00:	100.00:	10.00:	1200.00:

COMMENTS : PS132/43NE, LF189/53N. QTZ-FELDSPAR CRYSTAL TUFF, QTZ. GRAINS LESS PREVALENT THAN AT AB15617. QTZ. 1-2MM.<2%. CHLORITE-RICH, CRYSTAL POOR SECTIONS, POSSIBLE INFLUXES OF MAFIC TUFF, CRYSTAL POOR SECTION 5CM X 1CM,<5%.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:19:38

SAMPLE ID # AB15619 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116DM191 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428035.0 N : 5418285.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 26-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	69.80	72.08	67.63
AL203	16.90	17.45	19.30
FE203	2.22	1.85	1.31
FEO	0.00	0.40	0.31
CAO	0.54	0.56	0.56
MGO	1.12	1.16	1.62
NA2O	2.63	2.72	4.94
K2O	3.24	3.35	4.01
TI02	0.29	0.30	0.21
P2O5	0.08	0.08	0.07
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.54	0.00	0.00
TOTAL	96.84	100.00	100.00

NORMS	
Q	38.26
C	9.45
OR	20.05
AB	24.70
AN	2.26
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.23
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.45
IL	0.42
CR	0.00
HM	1.00
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.23
CPX	0.00
AB*	24.70

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.06 SI02 72.08 SUBALKALINE

OL* 3.66 NE* 22.39 Q* 73.95 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 65.31 F 22.23 M 12.46 CALC-ALKALINE

AL203 17.45 NORM PLAG 8.37 CALC-ALKALINE

AN 4.80 AB* 52.55 OR 42.65 K-RICH SERIES

CI 5.11 NORM PLAG 8.37 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 84.66 FE 8.24 MG 7.09

COLOR INDEX : 5.11
HASHIMOTO INDEX : 57.90

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 90.00:SR 200.00:Y 10.00:ZR 110.00:NB 10.00:BA 1650.00:

COMMENTS : PS130/82SW. CALCITE-QTZ-CHLORITE-SERICITE SCHIST, POSSIBLY ACRYSTALLINE PHASE OF CRYSTAL TUFFS, ANDESITIC TO DACITIC COMP. MATRIX IS APHANITIC AGGREGATE OF QTZ, CHLORITE, WHITE MICA AND IS LT. GREEN IN COLOUR.

SAMPLE ID # AB15620 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116DM195 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428198.0 N : 5418152.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 26-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	75.10	77.15	73.22	Q	49.73
AL2O3	12.90	13.25	14.82	C	7.81
FE2O3	2.87	1.78	1.27	OR	13.01
FEO	0.00	1.05	0.84	AB	21.64
CAO	0.12	0.12	0.13	AN	0.21
MGO	1.74	1.79	2.53	LC	0.00
NA2O	2.29	2.35	4.33	NE	0.00
K2O	2.09	2.15	2.60	KP	0.00
TIO2	0.23	0.24	0.17	AC	0.00
P2O5	0.06	0.06	0.05	DI	0.00
MNO	0.06	0.06	0.05	HE	0.00
S	0.00	0.00	0.00	EN	5.06
NIO	0.00	0.00	0.00	FS	0.17
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.31	0.00	0.00	MT	1.90
				IL	0.34
TOTAL	97.35	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.13
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	5.22
				CPX	0.00
				AB*	21.64

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.50 SIO2 77.15 SUBALKALINE
OL* 5.11 NE* 16.95 Q* 77.93 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 50.33 F 29.67 M 19.99 CALC-ALKALINE
AL2O3 13.25 NORM PLAG 0.98 CALC-ALKALINE
AN 0.61 AB* 62.07 OR 37.32 K-RICH SERIES
CI 7.46 NORM PLAG 0.98 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 75.34 FE 11.81 MG 12.85

COLOR INDEX : 7.46
HASHIMOTO INDEX : 61.38

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	50.00:SR	80.00:Y	20.00:ZR	110.00:NB	10.00:BA	960.00:

COMMENTS : PS139/72SW. QTZ-FELDSPAR CRYSTAL TUFF, ANDESITIC COMP. FINE WHITE FELDSPARS (1MM,10-15%) RANDOMLY DIST. THROUGH FINE GRAINED, LT. GREEN GROUNDMASS WITH MINOR VITREOUS QTZ. GRAINS (1MM,<1%). FELDSPARS HAVE ALTERED CORES: CLINO-EPIDOTE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:21:00

SAMPLE ID # AB15624 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 — FIELD NUMBER : 86116DM192 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 428200.0 N : 5418450.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 26-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.00	74.59	69.79
AL2O3	14.70	15.02	16.57
FE2O3	1.72	1.75	1.23
FEO	0.00	0.01	0.01
CAO	1.37	1.40	1.40
MGO	1.54	1.57	2.19
NA2O	3.45	3.53	6.39
K2O	1.79	1.83	2.19
TIO2	0.21	0.21	0.15
P2O5	0.04	0.04	0.03
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	97.87	100.00	100.00

NORMS	
Q	39.16
C	5.29
OR	10.93
AB	31.97
AN	6.75
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.39
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.10
CR	0.00
HM	1.23
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	4.39
CPX	0.00
AB*	31.97

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.35 SIO2 74.59 SUBALKALINE
OL* 4.36 NE* 25.40 Q* 70.24 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.92 F 18.58 M 18.49 CALC-ALKALINE
AL2O3 15.02 NORM PLAG 17.42 CALC-ALKALINE
AN 13.59 AB* 64.40 OR 22.01 AVERAGE SERIES
CI 5.71 NORM PLAG 17.42 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.05 FE 7.08 MG 10.87

COLOR INDEX : 5.71
HASHIMOTO INDEX : 40.86

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 60.00:SR 430.00:Y 10.00:ZR 100.00:NB 20.00:BA 1100.00:

COMMENTS : PS128/84SW. QTZ-FELDSPAR CRYSTAL TUFF. DACITIC COMP. FELDSPAR GRAINS SHOW WHITE CORE ALTERED TO CLINOZOISITE. MATRIX IS CHLORITE-SERICITE AGGREGATE, >90%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15625 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28600 FIELD NUMBER : 86116DM194 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428500.0 N : 5418975.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,HEMATITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 26-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 09-JUL-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.60	55.03	51.22
AL203	17.60	18.41	20.20
FE203	8.64	2.31	1.62
FEO	0.00	6.05	4.71
CAO	7.78	8.14	8.12
MGO	4.87	5.10	7.07
NA2O	2.70	2.82	5.10
K2O	0.83	0.87	1.03
TIO2	0.71	0.74	0.52
P2O5	0.35	0.37	0.29
MNO	0.14	0.15	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	95.58	100.00	100.00

NORMS	
Q	7.60
C	0.00
OR	5.16
AB	25.49
AN	35.18
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	1.61
HE	0.79
EN	13.33
FS	6.60
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.43
IL	1.04
CR	0.00
HM	0.00
AP	0.77
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	19.93
CPX	2.40
AB*	25.49

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.69 SIO2 55.03 SUBALKALINE
OL* 28.20 NE* 28.85 Q* 42.96 SUBALKALINE
CPX 10.75 OL 0.00 OPX 89.25 SUBALKALINE
A 21.82 F 48.07 M 30.11 THOLEITIC
AL2O3 18.41 NORM PLAG 57.99 CALC-ALKALINE
AN 53.44 AB* 38.72 OR 7.84 AVERAGE SERIES
CI 25.80 NORM PLAG 57.99 BASALT

JENSEN CALC-ALKALINE BASALT
AL 59.01 FE 20.35 MG 20.64

COLOR INDEX : 25.80
HASHIMOTO INDEX : 35.23

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	40.00:RB	20.00:SR	660.00:Y	20.00:ZR	80.00:NB	20.00:BA	260.00:AU	-10.00:LI	50.00:
BE	-10.00:B	20.00:SC	27.20:V	160.00:MN	980.00:CO	27.00:NI	29.00:CU	12.00:ZN	100.00:
GE	-10.00:AS	2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	1.90:
LA	18.50:CE	82.00:ND	16.00:SM	4.70:EU	1.60:YB	2.00:LU	0.32:HF	2.00:TA	-1.00:
W	-3.00:PB	6.00:BI	-0.50:TH	2.90:U	1.00:				

COMMENTS : PS115/64NE. ROCK IS LESS DEFORMED EQUIVALENT OF MAUVE SCHIST DETECTED TO N. MATRIX IS F. GRAINED, SILICEOUS, MAUVE IN COLOUR (80%). SUBROUNDED TO SUBANGULAR CHLORITIC FRAGMENTS (MAFIC?) 5MM, 10%. HEMATIZED DACITIC PYROCLASTIC.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:22:24

SAMPLE ID # AB15626 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 — FIELD NUMBER : 86116DM196 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427940.0 N : 5414080.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 27-JUN-86
ANALYZED BY : XRAL — DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	70.20	72.12	68.76	Q	40.70
AL2O3	14.90	15.31	17.20	C	4.99
FE2O3	3.30	1.88	1.35	OR	24.14
FEO	0.00	1.36	1.08	AB	11.30
CAO	2.56	2.63	2.69	AN	12.81
MGO	1.00	1.03	1.46	LC	0.00
NA2O	1.19	1.22	2.26	NE	0.00
K2O	3.86	3.97	4.83	KP	0.00
TIO2	0.33	0.34	0.24	AC	0.00
P2O5	0.09	0.09	0.07	DI	0.00
MNO	0.06	0.06	0.05	HE	0.00
S	0.00	0.00	0.00	EN	2.92
NIO	0.00	0.00	0.00	FS	0.43
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.54	0.00	0.00	MT	2.02
				IL	0.49
TOTAL	97.34	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.20
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	3.35
				CPX	0.00
				AB*	11.30

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.19 SIO2 72.12 SUBALKALINE
OL* 4.54 NE* 12.25 Q* 83.21 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 55.99 F 32.92 M 11.09 THOLEITIC
AL2O3 15.31 NORM PLAG 53.14 THOLEITIC
AN 26.55 AB* 23.42 OR 50.04 K-RICH SERIES
CI 5.86 NORM PLAG 53.14 ANDESITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.43 FE 12.74 MG 6.83

COLOR INDEX : 5.86
HASHIMOTO INDEX : 56.45

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR -10.00:RB 120.00:SR 310.00:Y 40.00:ZR 170.00:NB 20.00:BA 870.00:

COMMENTS : PS143/80NE. FELDSPAR CRYSTAL TUFF, ANDESITIC TO DACITIC COMP. FELDSPAR, WHITE TO GREENISH-WHITE (1-2MM,7-10%). MATRIX IS LT. GREEN AGGREGATE OF CHLORITE, SERICITE, AND QTZ. EPIDOTE KNOTS ON WEATHERED SURFACE (1CM-3 X 2CM, <1%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:23:05

SAMPLE ID # AB15627

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28600
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM203
LOT : 0 CONCESSION :
GRID COORDINATES : E : 429925.0 N : 5416980.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PORPHYRITIC,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE PLUS CHALCOPYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 27-JUN-86
ANALYZED BY : XRAL DATE : 09-JUL-86

ANALYTICAL
TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	68.70	72.31	69.73
AL2O3	13.00	13.68	15.55
FE2O3	7.08	1.92	1.39
FEO	0.00	4.98	4.02
CAO	0.97	1.02	1.05
MGO	1.17	1.23	1.77
NA2O	1.06	1.12	2.09
K2O	3.14	3.30	4.07
TIO2	0.32	0.34	0.24
P2O5	0.07	0.07	0.06
MNO	0.03	0.03	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.39	0.00	0.00
TOTAL	95.01	100.00	100.00

NORMS	
Q	44.48
C	7.49
OR	20.35
AB	10.43
AN	4.77
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.54
FS	6.21
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.09
IL	0.49
CR	0.00
HM	0.00
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	9.75
CPX	0.00
AB*	10.43

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.42 SIO2 72.31 SUBALKALINE

OL* 11.31 NE* 9.68 Q* 79.01 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 35.77 F 54.26 M 9.97 THOLEITIC

AL2O3 13.68 NORM PLAG 31.39 THOLEITIC

AN 13.42 AB* 29.33 OR 57.24 K-RICH SERIES

CI 12.32 NORM PLAG 31.39 ANDESITE

JENSEN THOLEIITIC DACITE
AL 67.62 FE 24.69 MG 7.69

COLOR INDEX : 12.32
HASHIMOTO INDEX : 67.98

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	70.00:SR	90.00:Y	10.00:ZR	120.00:NB	10.00:BA	1520.00:AU	10.00:LI	-10.00:
BE	-10.00:B	20.00:SC	6.80:V	60.00:MN	210.00:CO	9.00:NI	10.00:CU	370.00:ZN	120.00:
GE	-10.00:AS	4.00:SE	-3.00:BR	-1.00:MO	6.00:AG	-0.50:CD	-2.00:SB	0.20:CS	1.00:
LA	12.30:CE	33.00:ND	5.00:SM	1.50:EU	0.50:YB	1.50:LU	0.29:HF	2.00:TA	-1.00:
W	-3.00:PB	22.00:BI	-0.50:TH	3.40:U	2.40:				

COMMENTS : PS09R/70NE. FINE GRAINED, WHITE RHYOLITE, COMPOSED OF AGGREGATE OF WHITE MICA AND QTZ. (<95%). RARE GREY VITREOUS QTZ. EYES (2MM, <1%). UNKNOWN IF THIS IS A FLOW OR AN INTRUSION.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15628 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116DM207 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428595.0 N : 5418140.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 02-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.80	78.06	73.91
AL2O3	13.00	13.39	14.94
FE2O3	1.45	1.49	1.06
FEO	0.00	0.00	0.00
CAO	0.42	0.43	0.44
MGO	1.50	1.54	2.18
NA2O	2.24	2.31	4.23
K2O	2.44	2.51	3.04
TIO2	0.18	0.19	0.13
P2O5	0.03	0.03	0.02
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.10	100.00	100.00

NORMS	
Q	49.12
C	6.87
OR	15.19
AB	21.17
AN	1.99
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.36
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.07
CR	0.00
HM	1.06
AP	0.07
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	4.36
CPX	0.00
AB*	21.17

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.82 SIO2 78.06 SUBALKALINE
OL* 4.38 NE* 17.02 Q* 78.60 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.53 F 17.43 M 20.04 CALC-ALKALINE
AL2O3 13.39 NORM PLAG 8.58 CALC-ALKALINE
AN 5.18 AB* 55.20 OR 39.61 K-RICH SERIES
CI 5.49 NORM PLAG 8.58 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.42 FE 6.70 MG 11.88

COLOR INDEX : 5.49
HASHIMOTO INDEX : 59.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB	90.00:SR	210.00:Y	-10.00:ZR	90.00:NB	10.00:BA	1150.00:

COMMENTS : DACITIC COMP. QTZ-FELDSPAR CRYSTAL TUFF. MATRIX IS PALE SILVERY-GREEN AGGREGATE OF CHLORITE, SERICITE, <85%. RANDOMLY DISTRIBUTED THROUGHOUT ARE VITREOUS-GREY TO CLEAR QTZ. EYES (3 X 1MM, MAX.5MM, <3%) AND FELDSPAR (3 X 1MM, <7%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15629 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116DM209 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 429545.0 N : 5418615.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 03-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.90	49.98	46.09
AL203	18.90	19.72	21.44
FE203	10.80	2.40	1.67
FEO	0.00	7.98	6.16
CAO	8.13	8.48	8.38
MGO	4.76	4.97	6.83
NA2O	3.83	4.00	7.15
K2O	1.05	1.10	1.29
TIO2	0.80	0.83	0.58
P2O5	0.33	0.34	0.27
MNO	0.19	0.20	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.31	0.00	0.00
TOTAL	95.84	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	6.45
AB	35.16
AN	32.50
LC	0.00
NE	0.34
KP	0.00
AC	0.00
DI	3.34
HE	2.39
EN	0.00
FS	0.00
FO	8.99
FA	6.45
WO	0.00
LN	0.00
MT	2.50
IL	1.16
CR	0.00
HM	0.00
AP	0.72
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	15.44
OPX	0.00
CPX	5.73
AB*	35.73

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.09 SIO2 49.98 ALKALINE

OL* 30.31 NE* 42.08 Q* 27.61 ALKALINE

CPX 27.08 OL 72.92 OPX 0.00 SUBALKALINE

A 25.21 F 50.20 M 24.59 THOLEITIC

AL2O3 19.72 NORM PLAG 47.64 CALC-ALKALINE

AN 43.52 AB* 47.84 OR 8.64 SODIC

CI 24.83 NORM PLAG 47.64 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 58.22 FE 23.23 MG 18.54

COLOR INDEX : 24.83
HASHIMOTO INDEX : 32.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	RB	SR	Y	ZR	NB	BA	
	20.00:	30.00:	870.00:	20.00:	30.00:	10.00:	420.00:

COMMENTS : MASSIVE MED. GREEN HORNBLENDE-FELDSPAR PHYRIC ANDESITE FLOW. SAUSSERITIZED GREENISH-WHITE FELDSPAR PHENOCRYSTS, ANHEDRAL, BLOCKY (1MM,<5%). ANHEDRAL, BLOCKY AMPHIBOLE/HORNBLENDE (3MM,<3%) SOMETIMES SURROUNDED BY RIM OF EPIDOTE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15630 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28600 FIELD NUMBER : 86116DM211 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427508.0 N : 5418263.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 04-JUL-86
ANALYZED BY : XRAL DATE : 09-JUL-86
ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	73.40	75.50	70.38
AL203	12.70	13.06	14.35
FE203	2.29	1.82	1.28
FEO	0.00	0.48	0.38
CAO	1.25	1.29	1.28
MGO	1.96	2.02	2.80
NA2O	4.40	4.53	8.18
K2O	0.84	0.86	1.03
TI02	0.27	0.28	0.19
P205	0.07	0.07	0.06
MNO	0.09	0.09	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	97.22	100.00	100.00

NORMS	
Q	37.58
C	2.77
OR	5.14
AB	40.90
AN	5.95
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.60
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.76
IL	0.39
CR	0.00
HM	0.77
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.60
CPX	0.00
AB*	40.90

CLASSIFICATIONS AND INDICES

NA20+K20 5.39 SI02 75.50 SUBALKALINE
OL* 5.00 NE* 29.19 Q* 65.82 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 56.58 F 22.25 M 21.17 CALC-ALKALINE
AL203 13.06 NORM PLAG 12.70 CALC-ALKALINE
AN 11.44 AB* 78.67 OR 9.89 AVERAGE SERIES
CI 7.52 NORM PLAG 12.70 DACITE

JENSEN CALC-ALKALINE DACITE
AL 75.25 FE 10.07 MG 14.68

COLOR INDEX : 7.52
HASHIMOTO INDEX : 33.14

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	-10.00:SR	130.00:Y	-10.00:ZR	100.00:NB	10.00:BA	420.00:AU	-10.00:LI	10.00:
BE	-10.00:B	40.00:SC	4.70:V	30.00:MN	710.00:CO	4.00:NI	7.00:CU	3.00:ZN	81.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.20:CS	2.20:
LA	9.70:CE	25.00:ND	-5.00:SM	1.20:EU	0.50:YB	1.20:LU	0.22:HF	2.00:TA	-1.00:
W	-3.00:PB	4.00:BI	-0.50:TH	3.10:U	1.90:				

COMMENTS : PS126/80NE. POSSIBLE INTERMED. COMP. HYPABYSSAL INTRUSION OR MASSIVE FLOW. APHANITIC CRYSTALLINITY. GREY-GREEN COLOUR (>90%). TRANSLUCENT, WHITE FELDSPAR GRAINS (2MM,<7%) RANDOMLY DISTRIBUTED THROUGHOUT.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:25:53

SAMPLE ID # AB15631 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116DM212 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427515.0 N : 5418270.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,QUARTZ PORPHYRITIC,TECTONIZED,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 04-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.20	75.32	71.09
AL2O3	14.70	15.13	16.83
FE2O3	1.64	1.69	1.20
FEO	0.00	0.00	0.00
CAO	0.95	0.98	0.99
MGO	0.70	0.72	1.01
NA2O	2.54	2.61	4.78
K2O	3.06	3.15	3.80
TIO2	0.29	0.30	0.21
P2O5	0.07	0.07	0.06
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.62	0.00	0.00
TOTAL	97.19	100.00	100.00

NORMS	
Q	42.56
C	6.46
OR	18.98
AB	23.91
AN	4.46
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.03
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.07
CR	0.00
HM	1.20
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.18
AG	0.00
OL	0.00
OPX	2.03
CPX	0.00
AB*	23.91

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.76 SIO2 75.32 SUBALKALINE

OL* 2.22 NE* 20.95 Q* 76.84 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 72.02 F 18.98 M 9.00 CALC-ALKALINE

AL2O3 15.13 NORM PLAG 15.73 CALC-ALKALINE

AN 9.42 AB* 50.50 OR 40.08 K-RICH SERIES

CI 3.29 NORM PLAG 15.73 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.26 FE 7.48 MG 5.25

COLOR INDEX : 3.29
HASHIMOTO INDEX : 51.86

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	10.00:RB	80.00:SR	110.00:Y	10.00:ZR	100.00:NB	10.00:BA	920.00:

COMMENTS : PS135/78NE. CHLORITE-SERICITE SCHIST. CLEAR, VITREOUS QTZ. GRAINS (1MM,<1%) ON PLANE OF SCHISTOSITY, PERTURBATIONS (2MM,15-20%), POSSIBLE FELDSPARS. MINOR PY DISSEMS. UNKNOWN IF FLOW OR TUFF.

SAMPLE ID # AB15632 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116DM213 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427515.0 N : 5418275.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PLUS FELDSPAR PORPHRYITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 04-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.80	76.74	71.80
AL2O3	12.60	12.93	14.26
FE2O3	2.02	1.81	1.27
FEO	0.00	0.24	0.19
CAO	1.19	1.22	1.22
MGO	0.92	0.94	1.32
NA2O	4.41	4.52	8.21
K2O	1.18	1.21	1.45
TIO2	0.26	0.27	0.19
P2O5	0.07	0.07	0.06
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.54	0.00	0.00
TOTAL	97.47	100.00	100.00

NORMS	
Q	39.27
C	2.34
OR	7.23
AB	41.04
AN	5.65
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.63
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.12
IL	0.38
CR	0.00
HM	1.19
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.63
CPX	0.00
AB*	41.04

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.73 SIO2 76.74 SUBALKALINE
OL* 2.38 NE* 29.69 Q* 67.93 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 67.13 F 21.83 M 11.05 CALC-ALKALINE
AL2O3 12.93 NORM PLAG 12.09 THOLEITIC
AN 10.47 AB* 76.11 OR 13.42 AVERAGE SERIES
CI 4.32 NORM PLAG 12.09 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.60 FE 9.78 MG 7.63

COLOR INDEX : 4.32
HASHIMOTO INDEX : 27.27

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	10.00:RB	-10.00:SR	120.00:Y	-10.00:ZR	90.00:NB	10.00:BA	400.00:

COMMENTS : PS158/90. PENETRATIVE FABRIC WRAPS AROUND FOLD LIMB. DACITIC TO RHYODACITIC COMP. MASSIVE HYPABYSSAL INTRUSION? FINE GRAINED GREY, EQUANT QTZ. GRAINS, VITREOUS, CLEAR (1-2MM,<3%). FELDSPAR TRANSLUCENT, WHITE (2MM,<5%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:27:15

SAMPLE ID # AB15633

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28600
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM214
LOT : 0 CONCESSION :
GRID COORDINATES : E : 427522.0 N : 5418315.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 04-JUL-86
DATE : 09-JUL-86

ANALYTICAL
TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.10	53.20	48.45
AL2O3	20.20	21.03	22.57
FE2O3	9.20	2.32	1.59
FEO	0.00	6.53	4.97
CAO	3.87	4.03	3.93
MGO	5.09	5.30	7.19
NA2O	4.66	4.85	8.57
K2O	1.64	1.71	1.99
TIO2	0.73	0.76	0.52
P2O5	0.13	0.14	0.10
MNO	0.14	0.15	0.11
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	96.06	100.00	100.00

NORMS	
Q	0.00
C	4.51
OR	9.93
AB	42.83
AN	18.79
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	9.97
FS	5.23
FO	3.31
FA	1.73
WO	0.00
LN	0.00
MT	2.39
IL	1.04
CR	0.00
HM	0.00
AP	0.28
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	5.05
OPX	15.20
CPX	0.00
AB*	42.83

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.56 SIO2 53.20 ALKALINE

OL* 26.07 NE* 40.74 Q* 33.19 *SUBALKALINE*

CPX 0.00 OL 24.93 OPX 75.07 SUBALKALINE

A 32.03 F 42.09 M 25.88 THOLEITIC

AL2O3 21.03 NORM PLAG 30.49 CALC-ALKALINE

AN 26.26 AB* 59.86 OR 13.88 SODIC

CI 23.67 NORM PLAG 30.49 HAWAIITE

JENSEN CALC-ALKALINE ANDESITE
AL 61.07 FE 19.47 MG 19.46

COLOR INDEX : 23.67
HASHIMOTO INDEX : 44.10

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	20.00:RB	30.00:SR	330.00:Y	30.00:ZR	60.00:NB	30.00:BA	1080.00:AU	-10.00:LI	10.00:
BE	-10.00:B	-10.00:SC	25.20:V	230.00:MN	960.00:CO	24.00:NI	17.00:CU	300.00:ZN	78.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.40:CS	2.40:
LA	7.60:CE	32.00:ND	-5.00:SM	2.10:EU	0.50:YB	2.00:LU	0.33:HF	1.00:TA	-1.00:
W	-3.00:PB	-2.00:BI	-0.50:TH	0.90:U	0.50:				

COMMENTS : PS134/83NE. FELDSPAR-PHYRIC BASALTIC-ANDESITE FLOW. GREENISH-WHITE FELDSPAR PHENOCRYSTS, <1MM, <5%, MASSIVE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:27:58

SAMPLE ID # AB15634 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 — FIELD NUMBER : 86116DM215A — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427540.0 N : 5418340.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,APHYRIC,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 04-JUL-86
ANALYZED BY : XRAL — DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	77.90	79.84	75.36
AL2O3	9.87	10.12	11.25
FE2O3	2.59	1.77	1.26
FEO	0.00	0.79	0.63
CAO	1.10	1.13	1.14
MGO	0.94	0.96	1.36
NA2O	4.16	4.26	7.80
K2O	0.78	0.80	0.96
TIO2	0.23	0.24	0.17
P2O5	0.05	0.05	0.04
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.57	100.00	100.00

NORMS	
Q	45.56
C	0.35
OR	4.82
AB	39.01
AN	5.36
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.71
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.47
IL	0.33
CR	0.00
HM	0.28
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.71
CPX	0.00
AB*	39.01

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.06 SIO2 79.84 SUBALKALINE
OL* 2.33 NE* 26.82 Q* 70.86 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 60.17 F 28.38 M 11.45 CALC-ALKALINE
AL2O3 10.12 NORM PLAG 12.08 THOLEITIC
AN 10.90 AB* 79.31 OR 9.80 AVERAGE SERIES
CI 4.80 NORM PLAG 12.08 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 76.59 FE 14.19 MG 9.22

COLOR INDEX : 4.80
HASHIMOTO INDEX : 24.64

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB	20.00:SR	140.00:Y	10.00:ZR	90.00:NB	-10.00:BA	320.00:

COMMENTS : PS156/75NE. FINE GRAINED GREY SILICEOUS (>80% SIO2), VOLCANIC ROCK, POSSIBLE FLOW? ACRYSTALLINE. PY DISSEMINATIONS <1%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15637 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116DM216 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427665.0 N : 5418310.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,QUARTZ PLUS FELDSPAR PORPHRYITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 04-JUL-86
ANALYZED BY : XRAL DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.00	74.03	68.75
AL2O3	13.80	13.99	15.32
FE2O3	2.23	1.85	1.29
FEO	0.00	0.37	0.29
CAO	0.32	0.32	0.32
MGO	0.24	0.24	0.34
NA2O	4.81	4.88	8.78
K2O	3.82	3.87	4.59
TIO2	0.32	0.32	0.23
P2O5	0.09	0.09	0.07
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	0.93	0.00	0.00
TOTAL	98.61	100.00	100.00

NORMS	
Q	27.88
C	1.54
OR	22.97
AB	43.91
AN	1.02
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.67
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.24
IL	0.45
CR	0.00
HM	1.13
AP	0.19
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.67
CPX	0.00
AB*	43.91

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.75 SIO2 74.03 SUBALKALINE

OL* 0.70 NE* 36.36 Q* 62.94 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 79.34 F 18.45 M 2.21 CALC-ALKALINE

AL2O3 13.99 NORM PLAG 2.26 CALC-ALKALINE

AN 1.50 AB* 64.67 OR 33.83 K-RICH SERIES

CI 2.50 NORM PLAG 2.26 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.64 FE 10.43 MG 1.93

COLOR INDEX : 2.50
HASHIMOTO INDEX : 44.18

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB	50.00:SR	170.00:Y	30.00:ZR	150.00:NB	10.00:BA	1420.00:

COMMENTS : PS151/83NE, PS155/76SW. QTZ-FELDSPAR PHYRIC RHYODACITE. HAS SIMILARITIES TO CRYSTAL TUFFS BUT SUFFICIENTLY MASSIVE TO SUGGEST FLOW OR HYPABBYSAL INTRUSION.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:29:19

SAMPLE ID # AB15638 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116DM219 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427605.0 N : 5418353.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	72.70	74.26	68.47	Q	26.49
AL2O3	13.40	13.69	14.87	C	0.00
FE2O3	2.09	1.86	1.29	OR	8.90
FEO	0.00	0.25	0.19	AB	57.06
CAO	1.33	1.36	1.34	AN	4.21
MGO	0.23	0.23	0.32	LC	0.00
NA2O	6.25	6.38	11.41	NE	0.00
K2O	1.48	1.51	1.78	KP	0.00
TIO2	0.32	0.33	0.23	AC	0.00
P2O5	0.08	0.08	0.06	DI	1.29
MNO	0.04	0.04	0.03	HE	0.00
S	0.00	0.00	0.00	EN	0.00
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.14
H2O-	0.00	0.00	0.00	LN	0.00
LOI	1.31	0.00	0.00	MT	0.00
				IL	0.45
TOTAL	97.89	100.00	100.00	CR	0.00
				HM	1.29
				AP	0.17
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	0.00
				CPX	1.29
				AB*	57.06

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.90 SIO2 74.26 SUBALKALINE

OL* 0.00 NE* 40.97 Q* 59.03 SUBALKALINE

CPX100.00 OL 0.00 OPX 0.00 ALKALINE

A 78.55 F 19.11 M 2.34 CALC-ALKALINE

AL2O3 13.69 NORM PLAG 6.87 CALC-ALKALINE

AN 6.00 AB* 81.32 OR 12.69 AVERAGE SERIES

CI 3.03 NORM PLAG 6.87 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.82 FE 10.27 MG 1.91

COLOR INDEX : 3.03
HASHIMOTO INDEX : 18.41

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	RB	SR	Y	ZR	NB	BA	
	20.00:	30.00:	120.00:	30.00:	160.00:	20.00:	740.00:

COMMENTS : PS149/87NE. FELSIC VOLCANIC ROCK? MASSIVE APHANITIC CRYSTALLINITY, GREY-GREEN AGGREGATE OF CHLORITE, SERICITE AND QTZ.
, >75%. BLOCKY FELDSPARS 1-2MM, >10%. POSSIBLE FLOW OR HYPABYSSAL INTRUSION.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:30:00

SAMPLE ID # AB15639 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM220
LOT : 0 CONCESSION :

GRID COORDINATES : E : 427625.0 N : 5418352.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,MAFIC ,BLOCK ,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 07-JUL-86
DATE : 25-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	67.50	69.15	63.79
AL2O3	14.90	15.26	16.60
FE2O3	4.25	1.98	1.37
FEO	0.00	2.14	1.65
CAO	1.75	1.79	1.77
MGO	2.08	2.13	2.93
NA2O	5.24	5.37	9.60
K2O	1.53	1.57	1.85
TIO2	0.43	0.44	0.31
P2O5	0.10	0.10	0.08
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.62	100.00	100.00

NORMS	
Q	22.53
C	1.87
OR	9.23
AB	48.00
AN	8.19
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.86
FS	1.43
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.06
IL	0.61
CR	0.00
HM	0.00
AP	0.21
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	7.29
CPX	0.00
AB*	48.00

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.94 SIO2 69.15 SUBALKALINE

OL* 7.02 NE* 37.01 Q* 55.97 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 53.42 F 30.17 M 16.41 THOLEITIC

AL2O3 15.26 NORM PLAG 14.58 CALC-ALKALINE

AN 12.52 AB* 73.37 OR 14.11 AVERAGE SERIES

CI 9.96 NORM PLAG 14.58 DACITE

JENSEN CALC-ALKALINE DACITE
AL 72.44 FE 14.77 MG 12.79

COLOR INDEX : 9.96
HASHIMOTO INDEX : 34.06

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	20.00:RB	60.00:SR	200.00:Y	30.00:ZR	140.00:NB	10.00:BA	680.00:

COMMENTS : INTERMED. TO MAFIC COMP. BLOCK PYROCL. FLOW, FELSIC COMP. CLASTS. MEAN SIZE OF CLASTS 10 X 3CM, MAX. 40 X 8CM. SOME CLASTS HAVE DISTINCT. BLACK CHLOR. ALT. ON RIMS. CLASTS 25% OF ROCK. MATRIX MED. GREEN, F. GRAINED, MINOR FELD. GRAIN.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:30:41

SAMPLE ID # AB15640

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM222A
LOT : 0 CONCESSION :
GRID COORDINATES : E : 427640.0 N : 5418355.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 07-JUL-86
ANALYZED BY : XRAL DATE : 25-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	69.70	70.84	64.42
AL2O3	15.70	15.96	17.10
FE2O3	2.81	1.89	1.29
FEO	0.00	0.87	0.66
CAO	0.78	0.79	0.77
MGO	0.67	0.68	0.92
NA2O	7.58	7.70	13.58
K2O	0.76	0.77	0.90
TIO2	0.36	0.37	0.25
P2O5	0.09	0.09	0.07
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.00	0.00	0.00
TOTAL	98.39	100.00	100.00

NORMS	
Q	18.75
C	1.31
OR	4.49
AB	67.91
AN	3.27
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.85
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.33
IL	0.50
CR	0.00
HM	0.41
AP	0.19
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.85
CPX	0.00
AB*	67.91

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.48 SIO2 70.84 SUBALKALINE

OL* 1.56 NE* 46.04 Q* 52.40 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 72.28 F 21.91 M 5.81 CALC-ALKALINE

AL2O3 15.96 NORM PLAG 4.60 CALC-ALKALINE

AN 4.33 AB* 89.75 OR 5.93 K-POOR SERIES

CI 4.08 NORM PLAG 4.60 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 84.41 FE 11.04 MG 4.55

COLOR INDEX : 4.08
HASHIMOTO INDEX : 14.61

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB	10.00:SR	130.00:Y	50.00:ZR	190.00:NB	20.00:BA	410.00:

COMMENTS : PS157/83NE. INTERMED. COMP. FELD. CRYSTAL TUFF. MATRIX APHANITIC, COMPOSED OF CHLORITE, QTZ., AND SERICITE, ACCOUNTS FOR >80%. FELD. LT. GREENISH-WHITE, SUBHEDRAL, BLOCKY, 1-2MM, 15%. RARE, CLEAR, VITREOUS QTZ. GRAINS (2MM, <<1%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:31:21

SAMPLE ID # AB15641

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM222B
LOT : 0 CONCESSION :
GRID COORDINATES : E : 427640.0 N : 5418355.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 07-JUL-86
ANALYZED BY : XRAL DATE : 25-JUL-86

ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.20	72.35	67.65
AL2O3	14.10	14.33	15.79
FE2O3	3.26	1.85	1.30
FEO	0.00	1.32	1.03
CAO	2.98	3.03	3.03
MGO	1.09	1.11	1.54
NA2O	4.26	4.33	7.85
K2O	1.19	1.21	1.44
TIO2	0.32	0.33	0.23
P2O5	0.09	0.09	0.07
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.62	0.00	0.00
TOTAL	98.42	100.00	100.00

NORMS	
Q	32.20
C	0.67
OR	7.22
AB	39.24
AN	14.57
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.09
FS	0.41
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.95
IL	0.46
CR	0.00
HM	0.00
AP	0.19
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.50
CPX	0.00
AB*	39.24

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.54 SIO2 72.35 SUBALKALINE

OL* 3.50 NE* 31.42 Q* 65.08 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 57.53 F 30.96 M 11.51 THOLEITIC

AL2O3 14.33 NORM PLAG 27.07 CALC-ALKALINE

AN 23.87 AB* 64.30 OR 11.83 AVERAGE SERIES

CI 5.91 NORM PLAG 27.07 DACITE

JENSEN CALC-ALKALINE DACITE
AL 79.15 FE 13.11 MG 7.74

COLOR INDEX : 5.91
HASHIMOTO INDEX : 23.95

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	30.00:SR	440.00:Y	40.00:ZR	170.00:NB	20.00:BA	570.00:

COMMENTS : PS157/83NE. IS POSSIBLY A DEFORMED EQUIVALENT OF AB15640. MATRIX IS APHANITIC, AGGREGATE OF CHLORITE AND SERICITE, >90% OF ROCK. ANHEDRAL, EQUANT FELDSPARS RANDOMLY DISTRIBUTED THROUGHOUT (1-2MM, <10%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
11:32:02

SAMPLE ID # AB15642 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 — FIELD NUMBER : 86116DM223 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427655.0 N : 5418360.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 07-JUL-86
ANALYZED BY : XRAL — DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.40	53.10	49.12
AL2O3	16.20	17.77	19.38
FE2O3	7.74	2.38	1.66
FEO	0.00	5.50	4.25
CAO	9.83	10.79	10.69
MGO	2.86	3.14	4.33
NA2O	3.70	4.06	7.28
K2O	1.86	2.04	2.41
TIO2	0.67	0.74	0.51
P2O5	0.20	0.22	0.17
MNO	0.24	0.26	0.21
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	7.00	0.00	0.00
TOTAL	91.14	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	12.05
AB	32.14
AN	24.22
LC	0.00
NE	2.55
KP	0.00
AC	0.00
DI	12.92
HE	9.32
EN	0.00
FS	0.00
FO	1.64
FA	1.19
WO	0.00
LN	0.00
MT	2.49
IL	1.02
CR	0.00
HM	0.00
AP	0.46
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	2.83
OPX	0.00
CPX	22.23
AB*	36.40

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.10 SIO2 53.10 ALKALINE

OL* 7.54 NE* 58.19 Q* 34.26 ALKALINE

CPX 88.70 OL 11.30 OPX 0.00 ALKALINE

A 36.14 F 45.27 M 18.59 THOLEITIC

AL2O3 17.77 NORM PLAG 39.95 CALC-ALKALINE

AN 33.33 AB* 50.09 OR 16.59 SODIC

CI 28.57 NORM PLAG 39.95 HAWAIITE

JENSEN CALC-ALKALINE ANDESITE
AL 63.89 FE 21.85 MG 14.26

COLOR INDEX : 28.57
HASHIMOTO INDEX : 25.86

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	40.00:RB	60.00:SR	410.00:Y	30.00:ZR	70.00:NB	10.00:BA	440.00:

COMMENTS : MASSIVE, BLACK TO DK. GREEN, FINE GRAINED MAFIC FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15643 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116DM225 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427675.0 N : 5418372.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 07-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.10	73.34	68.51
AL2O3	13.50	13.93	15.33
FE2O3	2.30	1.79	1.26
FEO	0.00	0.52	0.41
CAO	3.10	3.20	3.20
MGO	0.72	0.74	1.03
NA2O	4.26	4.39	7.96
K2O	1.63	1.68	2.01
TIO2	0.24	0.25	0.17
P2O5	0.06	0.06	0.05
MNO	0.09	0.09	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.23	0.00	0.00
TOTAL	96.94	100.00	100.00

NORMS	
Q	31.78
C	0.00
OR	10.03
AB	39.79
AN	13.42
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	1.74
HE	0.00
EN	1.20
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.92
IL	0.35
CR	0.00
HM	0.65
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.20
CPX	1.74
AB*	39.79

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.08 SIO2 73.34 SUBALKALINE

OL* 1.24 NE* 32.81 Q* 65.96 SUBALKALINE

CPX 59.18 OL 0.00 OPX 40.82 ALKALINE

A 67.86 F 23.84 M 8.30 CALC-ALKALINE

AL2O3 13.93 NORM PLAG 25.22 THOLEITIC

AN 21.22 AB* 62.92 OR 15.86 AVERAGE SERIES

CI 4.85 NORM PLAG 25.22 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.87 FE 10.48 MG 5.66

COLOR INDEX : 4.85
HASHIMOTO INDEX : 24.20

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	50.00:SR	180.00:Y	20.00:ZR	100.00:NB	20.00:BA	520.00:

COMMENTS : PS155/55NE. ANDESITIC TO DACITIC QTZ-FELDSPAR CRYSTAL TUFF. MATRIX IS AGGREGATE OF CHLORITE, SERICITE, AND QUARZ, AND SILVERY-GREEN IN COLOUR. FELDSPAR (1-2MM, <15%), QUARTZ, VITREOUS, CLEAR, (2MM, <3%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
SAMPLE ID # AB15644 WHOLE ROCK GEOCHEMICAL ANALYSIS 11:33:23

LAB REPORT # 28877 FIELD NUMBER : 86116DM226 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427815.0 N : 5418490.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 16-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	38.00	45.87	42.54	Q	0.00
AL2O3	12.40	14.97	16.36	C	0.00
FE2O3	6.92	2.50	1.74	OR	0.00
FEO	0.00	5.27	4.09	AB	0.00
CAO	16.20	19.56	19.43	AN	29.06
MGO	6.03	7.28	10.06	LC	7.15
NA2O	1.36	1.64	2.95	NE	8.86
K2O	1.25	1.51	1.79	KP	0.00
TIO2	0.57	0.69	0.48	AC	0.00
P2O5	0.14	0.17	0.13	DI	33.85
MNO	0.34	0.41	0.32	HE	10.12
S	0.00	0.00	0.00	EN	0.00
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.11	0.13	0.10	FO	2.40
CO2	0.00	0.00	0.00	FA	0.72
H2O+	0.00	0.00	0.00	WO	0.66
H2O-	0.00	0.00	0.00	LN	3.11
LOI	16.47	0.00	0.00	MT	2.62
				IL	0.96
TOTAL	82.83	100.00	100.00	CR	0.15
				HM	0.00
				AP	0.35
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	3.11
				OPX	0.00
				CPX	43.97
				AB*	14.76

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.15 SIO2 45.87 SUBALKALINE

OL* 26.02 NE* 73.98 Q* 0.00 ALKALINE

CPX 93.38 OL 6.62 OPX 0.00 ALKALINE

A 17.56 F 41.88 M 40.56 THOLEITIC

AL2O3 14.97 NORM PLAG 66.32 THOLEITIC

AN 66.32 AB* 33.68 OR 0.00 K-POOR SERIES

CI 50.66 NORM PLAG 66.32 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 49.50 FE 20.06 MG 30.44

COLOR INDEX : 50.66
HASHIMOTO INDEX : 29.31

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	320.00:Y	-10.00:ZR	10.00:NB	-10.00:BA	320.00:				

COMMENTS : PS142/80NE. EXTREMELY SCHISTOSE, MED. GREEN, FINELY STRIPPED CALCITE-CHLORITE SCHIST. LIKELY A MAFIC TUFF. LENSES OF CALCITE (3-4 X 1MM, 30%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15645 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM227 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427815.0 N : 5418480.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 16-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	70.80	73.64	69.14
AL203	13.10	13.63	15.08
FE203	2.63	1.90	1.34
FE0	0.00	0.75	0.59
CA0	3.17	3.30	3.32
MG0	0.73	0.76	1.06
NA20	3.80	3.95	7.19
K20	1.57	1.63	1.96
TI02	0.33	0.34	0.24
P205	0.08	0.08	0.07
MN0	0.00	0.00	0.00
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.01	0.01	0.01
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	96.14	100.00	100.00

NORMS	
Q	34.45
C	0.00
OR	9.79
AB	35.97
AN	14.82
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.97
HE	0.00
EN	1.64
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.03
IL	0.48
CR	0.01
HM	0.66
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.64
CPX	0.97
AB*	35.97

CLASSIFICATIONS AND INDICES

NA20+K20 5.59 SI02 73.64 SUBALKALINE
OL* 1.71 NE* 29.95 Q* 68.34 SUBALKALINE
CPX 37.27 OL 0.00 OPX 62.73 SUBALKALINE
A 63.43 F 27.95 M 8.62 CALC-ALKALINE
AL203 13.63 NORM PLAG 29.17 THOLEITIC
AN 24.46 AB* 59.38 OR 16.16 AVERAGE SERIES
CI 4.78 NORM PLAG 29.17 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.32 FE 11.88 MG 5.80

COLOR INDEX : 4.78
HASHIMOTO INDEX : 24.81

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	10.00:BE	-10.00:B	30.00:SC	8.20:V	-10.00:CR	120.00:MN	360.00:CO	4.00:
NI	4.00:CU	4.50:ZN	57.00:GE	-10.00:AS	2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:
CD	-0.20:SB	0.30:CS	1.40:LA	17.00:CE	70.00:ND	13.00:SM	4.20:EU	0.90:YB	3.90:
LU	0.66:HF	4.00:TA	-1.00:W	-3.00:PB	-2.00:BI	-0.50:TH	4.10:U	0.70:RB	20.00:
SR	210.00:Y	30.00:ZR	140.00:NB	30.00:BA	1070.00:				

COMMENTS : PS161/80NE. ACRYSTALLINE QTZ-CHLORITE-SERICITE SCHIST, SILVER-GREEN, FINE GRAINED, INTERMEDIATED COMPOSITION. VOLCANICLASTIC.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
11:34:51

SAMPLE ID # AB15647 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM229 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427795.0 N : 5418405.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 16-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	50.60	55.44	51.67
AL203	17.10	18.73	20.58
FE203	7.24	2.20	1.54
FEO	0.00	5.16	4.02
CAO	8.09	8.86	8.85
MGO	2.05	2.25	3.12
NA20	2.99	3.28	5.92
K20	2.54	2.78	3.31
TI02	0.51	0.56	0.39
P205	0.44	0.48	0.38
MNO	0.24	0.26	0.21
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	8.23	0.00	0.00
TOTAL	91.27	99.00	99.00

NORMS	
Q	3.40
C	0.00
OR	16.56
AB	29.60
AN	28.38
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	4.75
HE	5.42
EN	3.87
FS	4.42
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.32
IL	0.78
CR	0.75
HM	0.00
AP	1.02
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	8.28
CPX	10.17
AB*	29.60

CLASSIFICATIONS AND INDICES

NA20+K20 6.06 SI02 55.44 SUBALKALINE
OL* 15.05 NE* 43.02 Q* 41.93 SUBALKALINE
CPX 55.11 OL 0.00 OPX 44.89 SUBALKALINE
A 39.24 F 46.22 M 14.54 THOLEITIC
AL203 18.73 NORM PLAG 48.95 CALC-ALKALINE
AN 38.07 AB* 39.71 OR 22.22 AVERAGE SERIES
CI 21.55 NORM PLAG 48.95 BASALT

JENSEN THOLEIITIC DACITE
AL 68.92 FE 20.64 MG 10.45

COLOR INDEX : 21.55
HASHIMOTO INDEX : 29.29

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	70.00:
SR	400.00:Y	30.00:ZR	100.00:NB	20.00:BA	970.00:				

COMMENTS : EXTREMELY FINE GRAINED/APHANITIC CHLORITE SCHIST, LIKELY MAFIC COMPOSITION TUFF. SMOOTH, LUSTROUS.

REPORT #2000

SAMPLE ID # AB15648

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM230
LOT : 0 CONCESSION :

GRID COORDINATES : E : 427800.0 N : 5418445.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 16-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.70	74.69	70.62
AL2O3	13.40	13.96	15.56
FE2O3	2.00	1.80	1.28
FEO	0.00	0.25	0.20
CAO	2.70	2.81	2.85
MGO	0.70	0.73	1.03
NA2O	2.57	2.68	4.91
K2O	2.62	2.73	3.30
TIO2	0.23	0.24	0.17
P2O5	0.06	0.06	0.05
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.00	0.00	0.00
TOTAL	96.00	100.00	100.00

NORMS	
Q	39.45
C	1.82
OR	16.48
AB	24.54
AN	13.83
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.06
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.18
IL	0.34
CR	0.01
HM	1.16
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.06
CPX	0.00
AB*	24.54

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.41 SIO2 74.69 SUBALKALINE

OL* 2.33 NE* 22.29 Q* 75.37 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 67.49 F 23.40 M 9.10 CALC-ALKALINE

AL2O3 13.96 NORM PLAG 36.05 THOLEITIC

AN 25.22 AB* 44.74 OR 30.05 K-RICH SERIES

CI 3.74 NORM PLAG 36.05 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.15 FE 9.23 MG 5.62

COLOR INDEX : 3.74
HASHIMOTO INDEX : 38.65

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	60.00:
SR	180.00:Y	-10.00:ZR	100.00:NB	10.00:BA	890.00:				

COMMENTS : PS126/80NE. QTZ-CHLORITE-SERICITE SCHIST. INTERMEDIATE COMPOSITION QTZ CRYSTAL TUFF. FINE GRAINED, SILVER-GREEN, COMPOSED OF AGGREGATE OF QTZ., CHLORITE, AND SERICITE. EQUANT TO ELLIP. CLEAR-GREY, VIT. QTZ. GRAINS (3 X 1.5MM, <2%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15649 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 — FIELD NUMBER : 86116DM231 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427752.0 N : 5418435.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 16-JUL-86
ANALYZED BY : XRAL — DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.20	77.89	74.01
AL2O3	11.10	11.50	12.88
FE2O3	1.86	1.77	1.27
FEO	0.00	0.14	0.11
CAO	2.68	2.78	2.83
MGO	1.05	1.09	1.54
NA2O	2.55	2.64	4.87
K2O	1.80	1.86	2.26
TIO2	0.21	0.22	0.16
P2O5	0.05	0.05	0.04
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.46	0.00	0.00
TOTAL	96.54	100.00	100.00

NORMS	
Q	45.57
C	0.24
OR	11.31
AB	24.33
AN	13.78
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.08
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.30
CR	0.01
HM	1.27
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.01
AG	0.00
OL	0.00
OPX	3.08
CPX	0.00
AB*	24.33

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.51 SIO2 77.89 SUBALKALINE
OL* 3.17 NE* 20.00 Q* 76.83 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 61.50 F 23.66 M 14.84 CALC-ALKALINE
AL2O3 11.50 NORM PLAG 36.17 THOLEITIC
AN 27.89 AB* 49.22 OR 22.89 AVERAGE SERIES
CI 4.64 NORM PLAG 36.17 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.52 FE 9.85 MG 9.63

COLOR INDEX : 4.64
HASHIMOTO INDEX : 35.27

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	150.00:Y	20.00:ZR	70.00:NB	10.00:BA	890.00:				

COMMENTS : INTERMEDIATE COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF (CHLORITE-SERICITE SCHIST). FINE GRAINED, SILVER-GREEN MATRIX. INTERDIGITATIONS OF INTERMED. AND FELSIC TUFFS.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
11:37:01

SAMPLE ID # AB15650 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM232A PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427825.0 N : 5418527.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 16-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	57.90	59.27	53.21	Q	0.00
AL203	18.50	18.94	20.04	C	1.79
FE203	7.53	2.07	1.40	OR	1.76
FE0	0.00	5.08	3.81	AB	74.38
CA0	2.06	2.11	2.03	AN	7.54
MG0	2.60	2.66	3.56	LC	0.00
NA20	8.35	8.55	14.88	NE	0.00
K20	0.30	0.31	0.35	KP	0.00
TI02	0.52	0.53	0.36	AC	0.00
P205	0.40	0.41	0.31	DI	0.00
MN0	0.08	0.08	0.06	HE	0.00
S	0.00	0.00	0.00	EN	2.21
NI0	0.00	0.00	0.00	FS	2.06
CR203	0.00	0.50	0.50	FO	3.68
C02	0.00	0.00	0.00	FA	3.43
H20+	0.00	0.00	0.00	WO	0.00
H20-	0.00	0.00	0.00	LN	0.00
LOI	1.47	0.00	0.00	MT	2.10
				IL	0.72
TOTAL	97.68	99.00	99.00	CR	0.75
				HM	0.00
				AP	0.83
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	7.11
				OPX	4.27
				CPX	0.00
				AB*	74.38

CLASSIFICATIONS AND INDICES

NA20+K20 8.85 SI02 59.27 ALKALINE

OL* 12.03 NE* 52.04 Q* 35.94 ALKALINE

CPX 0.00 OL 62.48 OPX 37.52 SUBALKALINE

A 47.99 F 37.59 M 14.42 THOLEITIC

AL203 18.94 NORM PLAG 9.21 CALC-ALKALINE

AN 9.01 AB* 88.88 OR 2.10 SODIC

CI 14.19 NORM PLAG 9.21 BENMORITE

JENSEN CALC-ALKALINE ANDESITE
AL 68.56 FE 19.26 MG 12.18

COLOR INDEX : 14.19
HASHIMOTO INDEX : 21.79

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	30.00:
SR	620.00:Y	20.00:ZR	150.00:NB	20.00:BA	150.00:				

COMMENTS : FELDSPAR-PHYRIC ANDESITE/BASALTIC ANDESITE. MASSIVE, MED. GREEN, FINE GRAINED. FELDSPAR GRAINS (1-2MM, <2%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000 — PAGE 1
PRINTED 31-JAN-87 11:37:44

SAMPLE ID # AB15651 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 — FIELD NUMBER : 86116DM232 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427825.0 N : 5418522.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 16-JUL-86
ANALYZED BY : XRAL — DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	54.40	58.46	54.39
AL2O3	13.50	14.51	15.91
FE2O3	11.60	2.29	1.60
FEO	0.00	9.16	7.12
CAO	1.27	1.36	1.36
MGO	10.10	10.85	15.05
NA2O	1.64	1.76	3.18
K2O	0.43	0.46	0.55
TIO2	0.63	0.68	0.47
P2O5	0.14	0.15	0.12
MNO	0.24	0.26	0.20
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.06	0.06	0.05
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.16	0.00	0.00
TOTAL	93.06	100.00	100.00

NORMS	
Q	19.80
C	9.86
OR	2.75
AB	15.89
AN	5.81
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	30.10
FS	12.06
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.40
IL	0.95
CR	0.07
HM	0.00
AP	0.32
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	42.15
CPX	0.00
AB*	15.89

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.22 SIO2 58.46 SUBALKALINE
OL* 40.61 NE* 12.25 Q* 47.14 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 9.16 F 46.17 M 44.68 THOLEITIC
AL2O3 14.51 NORM PLAG 26.78 CALC-ALKALINE
AN 23.77 AB* 65.00 OR 11.23 AVERAGE SERIES
CI 45.51 NORM PLAG 26.78 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 39.42 FE 23.30 MG 37.28

COLOR INDEX : 45.51
HASHIMOTO INDEX : 78.35

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	30.00:
SR	100.00:Y	-10.00:ZR	30.00:NB	20.00:BA	170.00:				

COMMENTS : PF128/90. 3M WIDE FAULT ZONE. FAULT GOUGE IS MEDIUM TO DK. GREEN CHLORITE SCHIST AND HAS A STRIPED APPEARANCE.

SAMPLE ID # AB15652 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-1361 FIELD NUMBER : 86116DM233 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427815.0 N : 5418560.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,MAFIC PORPHYRITIC ,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 16-JUL-86
ANALYZED BY : ACME DATE : 14-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	51.70	53.81	49.49
AL203	13.40	13.95	15.12
FE203	10.30	2.28	1.58
FE0	0.00	7.60	5.84
CA0	7.60	7.91	7.80
MG0	9.97	10.38	14.22
NA20	2.61	2.72	4.84
K20	0.25	0.26	0.31
TI02	0.69	0.72	0.50
P205	0.11	0.11	0.09
MN0	0.19	0.20	0.15
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.07	0.07	0.05
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
L0I	3.00	0.00	0.00
TOTAL	96.08	100.00	100.00

NORMS	
Q	2.50
C	0.00
OR	1.53
AB	24.22
AN	24.93
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	8.01
HE	2.64
EN	24.45
FS	8.05
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.37
IL	0.99
CR	0.08
HM	0.00
AP	0.24
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	32.50
CPX	10.65
AB*	24.22

CLASSIFICATIONS AND INDICES

NA20+K20 2.98 SI02 53.81 SUBALKALINE

OL* 41.15 NE* 24.54 Q* 34.31 SUBALKALINE

CPX 24.68 OL 0.00 OPX 75.32 SUBALKALINE

A 12.94 F 41.94 M 45.12 THOLEITIC

AL203 13.95 NORM PLAG 50.72 THOLEITIC

AN 49.19 AB* 47.79 OR 3.02 K-POOR SERIES

CI 46.50 NORM PLAG 50.72 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 40.41 FE 21.57 MG 38.02

COLOR INDEX : 46.50
HASHIMOTO INDEX : 50.02

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	10.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	971.00:ZN	67.00:GE	0.00:AS	3.00:SE	0.00:BR	0.00:MO	0.00:AG	0.80:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	2.00:BI	0.00:TH	0.00:U	0.00:RB	20.00:
SR	390.00:Y	20.00:ZR	30.00:NB	20.00:BA	276.00:				

COMMENTS : PS143/77NE. MAFIC CRYSTAL TUFF, SLIGHTLY MYLONITIZED. MATRIX IS FINE GRAINED, BLUE-GREEN AND WRAPS AROUND EQUANT ACTINOLITE GRAINS (5MM, 5-7%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15653 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 86-1361 FIELD NUMBER : 86116DM234 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427852.0 N : 5418695.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 16-JUL-86 ANALYTICAL
ANALYZED BY : ACME DATE : 14-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	76.10	78.29	74.35	Q	51.80
AL2O3	12.80	13.17	14.74	C	7.76
FE2O3	1.71	1.73	1.24	OR	14.41
FEO	0.00	0.03	0.02	AB	17.71
CAO	0.32	0.33	0.34	AN	1.40
MGO	1.87	1.92	2.72	LC	0.00
NA2O	1.87	1.92	3.54	NE	0.00
K2O	2.31	2.38	2.88	KP	0.00
TIO2	0.18	0.19	0.13	AC	0.00
P2O5	0.04	0.04	0.03	DI	0.00
MNO	0.00	0.00	0.00	HE	0.00
S	0.00	0.00	0.00	EN	5.45
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.50	0.50	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.08	0.00	0.00	MT	1.17
				IL	0.26
TOTAL	97.19	99.00	99.00	CR	0.75
				HM	0.46
				AP	0.09
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	5.45
				CPX	0.00
				AB*	17.71

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.30 SIO2 78.29 SUBALKALINE
OL* 5.45 NE* 14.18 Q* 80.37 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 55.08 F 20.28 M 24.64 CALC-ALKALINE
AL2O3 13.17 NORM PLAG 7.32 CALC-ALKALINE
AN 4.17 AB* 52.83 OR 42.99 K-RICH SERIES
CI 7.34 NORM PLAG 7.32 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 78.19 FE 7.37 MG 14.44

COLOR INDEX : 7.34
HASHIMOTO INDEX : 65.62

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	1.00:LI	10.00:BE	-10.00:B	20.00:SC	3.30:V	10.00:CR	55.00:MN	170.00:CO	3.00:
NI	2.00:CU	89.00:ZN	16.00:GE	10.00:AS	10.00:SE	-3.00:BR	1.00:MO	-5.00:AG	0.10:
CD	-0.20:SB	0.30:CS	1.50:LA	13.40:CE	35.00:ND	-5.00:SM	1.40:EU	0.40:YB	1.60:
LU	0.31:HF	2.00:TA	-1.00:W	-3.00:PB	13.00:BI	-0.50:TH	5.90:U	2.50:RB	70.00:
SR	260.00:Y	10.00:ZR	80.00:NB	20.00:BA	441.00:				

COMMENTS : PS130/80NE. INTERMEDIATE TO FELSIC COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF, MATRIX, >90%, COMPOSED OF FINE GRAINED AGGREG. OF CHLORITE-SERICITE AND QTZ. CREAM-WHITE FELDSPARS (3MM MAX., 1MM MEAN, <7%). QTZ., ELLIPTICAL, 3 X 2MM, <3%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15654 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM235 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427980.0 N : 5419210.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 16-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.60	49.29	44.70
AL2O3	19.70	21.29	22.76
FE2O3	8.24	2.44	1.67
FEO	0.00	5.82	4.41
CAO	6.18	6.68	6.49
MGO	5.50	5.95	8.04
NA2O	4.17	4.51	7.93
K2O	2.34	2.53	2.93
TIO2	0.76	0.82	0.56
P2O5	0.43	0.46	0.36
MNO	0.19	0.21	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.39	0.00	0.00
TOTAL	92.50	99.00	99.00

NORMS	
Q	0.00
C	0.12
OR	14.65
AB	25.85
AN	29.48
LC	0.00
NE	8.26
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.00
FS	0.00
FO	12.05
FA	5.51
WO	0.00
LN	0.00
MT	2.50
IL	1.12
CR	0.75
HM	0.00
AP	0.95
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	17.57
OPX	0.00
CPX	0.00
AB*	39.63

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.04 SIO2 49.29 ALKALINE
OL* 33.99 NE* 46.00 Q* 20.01 ALKALINE
CPX 0.00 OL 100.00 OPX 0.00 SUBALKALINE
A 33.51 F 38.17 M 28.31 THOLEITIC
AL2O3 21.29 NORM PLAG 42.66 CALC-ALKALINE
AN 35.20 AB* 47.31 OR 17.49 SODIC
CI 21.19 NORM PLAG 42.66 HAWAIITE

JENSEN CALC-ALKALINE ANDESITE
AL 60.55 FE 18.08 MG 21.37

COLOR INDEX : 21.19
HASHIMOTO INDEX : 43.10

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	80.00:BE	-10.00:B	40.00:SC	18.90:V	210.00:CR	33.00:MN	0.00:CO	25.00:
NI	8.00:CU	190.00:ZN	110.00:GE	10.00:AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:
CD	-0.20:SB	-0.20:CS	1.60:LA	25.40:CE	46.00:ND	21.00:SM	5.30:EU	0.90:YB	2.20:
LU	0.40:HF	2.00:TA	-1.00:W	-3.00:PB	-2.00:BI	-0.50:TH	2.80:U	1.80:RB	60.00:
SR	330.00:Y	30.00:ZR	50.00:NB	10.00:BA	530.00:				

COMMENTS : PS126/82SW. FINE GRAINED, DK. GREEN, HIGHLY CHLORITIC SCHIST WITH MAUVE SHEEN/LUSTRE. MODERATELY CALCAREOUS. BLEBS OF CALCITE ACCOUNT FOR 10% (CALCITE-CHLORITE SCHIST). MARKER UNIT BETWEEN MYRA AND SEDIMENT SILL UNITS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15655 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM236 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428275.0 N : 5419000.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 17-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	47.50	50.20	45.76	Q	0.00
AL2O3	18.70	19.76	21.23	C	0.00
FE2O3	10.30	2.43	1.67	OR	0.92
FEO	0.00	7.61	5.80	AB	41.92
CAO	6.96	7.36	7.18	AN	29.70
MGO	5.57	5.89	8.00	LC	0.00
NA2O	4.91	5.19	9.17	NE	2.36
K2O	0.15	0.16	0.18	KP	0.00
TIO2	0.80	0.85	0.58	AC	0.00
P2O5	0.36	0.38	0.29	DI	1.93
MNO	0.16	0.17	0.13	HE	1.09
S	0.00	0.00	0.00	EN	0.00
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.01	0.01	0.01	FO	11.27
CO2	0.00	0.00	0.00	FA	6.36
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	3.77	0.00	0.00	MT	2.50
				IL	1.16
TOTAL	94.62	100.00	100.00	CR	0.01
				HM	0.00
				AP	0.78
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	17.63
				OPX	0.00
				CPX	3.02
				AB*	45.85

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.35 SIO2 50.20 ALKALINE
OL* 28.48 NE* 44.43 Q* 27.09 ALKALINE
CPX 14.61 OL 85.39 OPX 0.00 SUBALKALINE
A 25.43 F 46.58 M 27.99 THOLEITIC
AL2O3 19.76 NORM PLAG 39.31 CALC-ALKALINE
AN 38.84 AB* 59.96 OR 1.21 SODIC
CI 24.31 NORM PLAG 39.31 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 56.76 FE 21.86 MG 21.38

COLOR INDEX : 24.31
HASHIMOTO INDEX : 32.52

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	10.00:
SR	470.00:Y	10.00:ZR	80.00:NB	10.00:BA	110.00:				

COMMENTS : AMPHIBOLE-FELDSPAR-PHYRIC ANDESITE. MATRIX IS MED. GREEN, FINE GR., >75%. RANDOMLY DISTRIBUTED/ORIENTED THROUGHOUT ARE EQUANT-SUBHEDRAL TO ANHEDRAL FELDSPAR GRAINS (1MM, 15%). AMPHIBOLE (1MM, <7%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15656 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM240 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428065.0 N : 5419387.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,MAFIC ,FINE,APHYRIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 17-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.30	50.48	47.84
AL2O3	14.60	15.58	17.41
FE2O3	12.00	3.49	2.49
FEO	0.00	8.38	6.65
CAO	10.60	11.31	11.49
MGO	6.64	7.09	10.01
NA2O	1.18	1.26	2.31
K2O	0.11	0.12	0.14
TIO2	1.77	1.89	1.35
P2O5	0.16	0.17	0.14
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.03	0.03	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.54	0.00	0.00
TOTAL	93.70	100.00	100.00

NORMS	
Q	7.53
C	0.00
OR	0.71
AB	11.57
AN	37.38
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	10.67
HE	4.47
EN	14.69
FS	6.16
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.73
IL	2.69
CR	0.04
HM	0.00
AP	0.37
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	20.84
CPX	15.14
AB*	11.57

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.38 SIO2 50.48 SUBALKALINE
OL* 39.13 NE* 17.38 Q* 43.49 SUBALKALINE
CPX 42.07 OL 0.00 OPX 57.93 SUBALKALINE
A 6.89 F 57.66 M 35.46 THOLEITIC
AL2O3 15.58 NORM PLAG 76.36 THOLEITIC
AN 75.27 AB* 23.30 OR 1.43 AVERAGE SERIES
CI 42.41 NORM PLAG 76.36 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 45.75 FE 27.95 MG 26.31

COLOR INDEX : 42.41
HASHIMOTO INDEX : 36.43

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	20.00:
SR	380.00:Y	10.00:ZR	80.00:NB	20.00:BA	60.00:				

COMMENTS : MASSIVE, MED. GREEN, SUBOPHITICALLY TEXTURED ANDESITIC COMOSITION SILL. FINE GR. ANHEDRAL GREENISH PLAGIOCLASE LATHS RANDOMLY DISTRIBUTED/ORIENTED THROUGHOUT. A DK. GREEN ACTINOLITE MATRIX.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
11:42:06

SAMPLE ID # AB15658 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 — FIELD NUMBER : 86116DM254 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427625.0 N : 5419385.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,MAFIC ,FINE,APHYRIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 18-JUL-86
ANALYZED BY : XRAL — DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : XRF + NEUTRON ACTIVATION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.30	50.64	48.60
AL2O3	13.40	14.05	15.89
FE2O3	14.00	3.55	2.57
FEO	0.00	10.01	8.03
CAO	11.20	11.74	12.08
MGO	6.67	6.99	10.00
NA2O	0.47	0.49	0.92
K2O	0.07	0.07	0.09
TIO2	1.89	1.98	1.43
P2O5	0.17	0.18	0.14
MNO	0.26	0.27	0.22
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.70	0.00	0.00
TOTAL	95.39	100.00	100.00

NORMS	
Q	10.77
C	0.00
OR	0.45
AB	4.58
AN	37.22
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	11.31
HE	6.26
EN	14.35
FS	7.94
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.85
IL	2.86
CR	0.02
HM	0.00
AP	0.39
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	22.29
CPX	17.56
AB*	4.58

CLASSIFICATIONS AND INDICES

NA2O+K2O	0.57	SIO2	50.64	SUBALKALINE		
OL*	44.41	NE*	7.31	Q*	48.28	SUBALKALINE
CPX	44.07	OL	0.00	OPX	55.93	SUBALKALINE
A	2.73	F	63.60	M	33.67	THOLEITIC
AL2O3	14.05	NORM PLAG	89.03	THOLEITIC		
AN	88.08	AB*	10.85	OR	1.06	K-RICH SERIES
CI	46.57	NORM PLAG	89.03	BASALT		

JENSEN HIGH IRON THOLEIITIC BASALT
AL 41.66 FE 32.12 MG 26.22

COLOR INDEX : 46.57
HASHIMOTO INDEX : 36.61

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	10.00:
SR	290.00:Y	40.00:ZR	90.00:NB	20.00:BA	90.00:				

COMMENTS : MEDIUM GREEN, FINE GRAINED, SLIGHTLY CHLORITIC, ANDESITIC COMPOSITION SILL.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:42:49

SAMPLE ID # AB15662

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 | FIELD NUMBER : 86116DM257 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 427525.0 N : 5419322.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,INTERMEDIATE,FINE,APHYRIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,EPIDOTIZATION ,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 18-JUL-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 26-AUG-86 | TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	47.20	48.99	46.11	Q	0.00
AL203	18.30	18.99	21.07	C	0.00
FE203	11.30	2.23	1.58	OR	2.87
FEO	0.00	8.54	6.73	AB	19.04
CAO	12.70	13.18	13.30	AN	41.73
MGO	3.98	4.13	5.80	LC	0.00
NA2O	2.01	2.09	3.81	NE	0.00
K2O	0.46	0.48	0.57	KP	0.00
TIO2	0.65	0.67	0.48	AC	0.00
P2O5	0.44	0.46	0.36	DI	8.42
MNO	0.23	0.24	0.19	HE	8.94
S	0.00	0.00	0.00	EN	7.36
NIO	0.00	0.00	0.00	FS	7.81
CR203	0.00	0.50	0.50	FO	0.01
CO2	0.00	0.00	0.00	FA	0.01
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.85	0.00	0.00	MT	2.37
				IL	0.96
TOTAL	96.34	99.00	99.00	CR	0.75
				HM	0.00
				AP	0.97
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.02
				OPX	15.18
				CPX	17.36
				AB*	19.04

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.56 SIO2 48.99 SUBALKALINE
OL* 33.32 NE* 33.36 Q* 33.32 SUBALKALINE
CPX 53.32 OL 0.07 OPX 46.61 SUBALKALINE
A 14.86 F 61.19 M 23.95 THOLEITIC
AL203 18.99 NORM PLAG 68.67 CALC-ALKALINE
AN 65.58 AB* 29.91 OR 4.51 AVERAGE SERIES
CI 35.89 NORM PLAG 68.67 BASALT

JENSEN CALC-ALKALINE BASALT
AL 58.79 FE 25.04 MG 16.17

COLOR INDEX : 35.89
HASHIMOTO INDEX : 23.19

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	30.00:
SR	710.00:Y	20.00:ZR	40.00:NB	-10.00:BA	380.00:				

COMMENTS : FINE GR., PISTACHIO GREEN, SILICEOUS (DACITIC COMP.) MATRIX. RANDOMLY ORIENTED/DISTRIBUTED THROUGHOUT ARE GREY-GREEN/ DK. GREEN, SHARD-SHAPED GRAINS, POSSIBLY LAPILLI (1-2MM, <15%). A POSSIBLE FLOW.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15666 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM260 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424570.0 N : 5419200.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.30	49.99	47.07
AL2O3	14.30	14.80	16.43
FE2O3	12.80	3.19	2.26
FEO	0.00	9.05	7.13
CAO	11.10	11.49	11.59
MGO	6.72	6.95	9.76
NA2O	1.97	2.04	3.72
K2O	0.49	0.51	0.61
TIO2	1.58	1.64	1.16
P2O5	0.14	0.14	0.12
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.00	0.00	0.00
TOTAL	96.63	100.00	100.00

NORMS	
Q	1.88
C	0.00
OR	3.05
AB	18.61
AN	30.23
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	14.16
HE	7.24
EN	12.44
FS	6.37
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.39
IL	2.32
CR	0.01
HM	0.00
AP	0.31
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	18.81
CPX	21.40
AB*	18.61

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.55 SIO2 49.99 SUBALKALINE

OL* 35.90 NE* 28.42 Q* 35.68 SUBALKALINE

CPX 53.23 OL 0.00 OPX 46.77 SUBALKALINE

A 11.89 F 55.65 M 32.47 THOLEITIC

AL2O3 14.80 NORM PLAG 61.90 THOLEITIC

AN 58.26 AB* 35.86 OR 5.88 AVERAGE SERIES

CI 45.91 NORM PLAG 61.90 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 44.53 FE 29.01 MG 26.46

COLOR INDEX : 45.91
HASHIMOTO INDEX : 35.55

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	30.00:
SR	250.00:Y	10.00:ZR	60.00:NB	30.00:BA	120.00:				

COMMENTS : BLACK, FINE GR. FELDSPAR-PHYRIC BASALT. ANHEDRAL, GREENISH-WHITE PLAGIOCLASE PHENOCRYSTS RANDOMLY DISTRIBUTED/ORIENTED THROUGHOUT (2MM, <3%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

PRINTED 31-JAN-87
11:44:16

REPORT #2000

SAMPLE ID # AB15667 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM261A PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424805.0 N : 5419570.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,BLOCK ,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,EPIDOTIZATION ,WEAK.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.60	51.71	47.17
AL2O3	17.20	18.30	19.68
FE2O3	8.56	2.38	1.64
FEO	0.00	6.05	4.62
CAO	8.53	9.08	8.87
MGO	4.78	5.09	6.91
NA2O	4.90	5.21	9.22
K2O	0.66	0.70	0.82
TIO2	0.74	0.79	0.54
P2O5	0.49	0.52	0.40
MNO	0.16	0.17	0.13
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.00	0.00	0.00
TOTAL	93.98	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	4.09
AB	38.47
AN	24.10
LC	0.00
NE	4.58
KP	0.00
AC	0.00
DI	8.65
HE	4.87
EN	0.00
FS	0.00
FO	7.13
FA	4.01
WO	0.00
LN	0.00
MT	2.45
IL	1.08
CR	0.75
HM	0.00
AP	1.08
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	11.14
OPX	0.00
CPX	13.52
AB*	46.10

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.92 SIO2 51.71 ALKALINE
OL* 20.55 NE* 51.05 Q* 28.40 ALKALINE
CPX 54.83 OL 45.17 OPX 0.00 SUBALKALINE
A 30.82 F 42.69 M 26.49 THOLEITIC
AL2O3 18.30 NORM PLAG 34.33 CALC-ALKALINE
AN 32.44 AB* 62.06 OR 5.51 SODIC
CI 28.19 NORM PLAG 34.33 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 58.71 FE 20.66 MG 20.63

COLOR INDEX : 28.19
HASHIMOTO INDEX : 28.83

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	20.00:
SR	440.00:Y	20.00:ZR	90.00:NB	30.00:BA	370.00:				

COMMENTS : GREY-GREEN, FINE GR. DACITIC COMPOSITION BLOCK? SAUSSERITIZED GREENISH-WHITE FELDSPAR PHENOCRYSTS (1-2MM, <5%). MINOR DISSEMINATIONS OF PYRITE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
11:45:00

SAMPLE ID # AB15668 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM261B PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424805.0 N : 5419570.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	41.50	45.04	41.45
AL2O3	16.90	18.34	19.90
FE2O3	11.50	2.63	1.82
FEO	0.00	8.87	6.83
CAO	10.40	11.29	11.13
MGO	7.76	8.42	11.55
NA2O	2.72	2.95	5.27
K2O	0.54	0.59	0.69
TIO2	0.92	1.00	0.69
P2O5	0.53	0.58	0.45
MNO	0.26	0.28	0.22
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.54	0.00	0.00
TOTAL	92.13	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	3.44
AB	16.41
AN	34.85
LC	0.00
NE	5.96
KP	0.00
AC	0.00
DI	9.28
HE	4.37
EN	0.00
FS	0.00
FO	13.85
FA	6.52
WO	0.00
LN	0.00
MT	2.73
IL	1.38
CR	0.01
HM	0.00
AP	1.20
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	20.37
OPX	0.00
CPX	13.65
AB*	26.34

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.54 SIO2 45.04 ALKALINE
OL* 47.67 NE* 36.98 Q* 15.36 ALKALINE
CPX 40.12 OL 59.88 OPX 0.00 SUBALKALINE
A 15.26 F 48.43 M 36.32 THOLEITIC
AL2O3 18.34 NORM PLAG 56.96 CALC-ALKALINE
AN 53.92 AB* 40.75 OR 5.33 SODIC
CI 38.13 NORM PLAG 56.96 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 48.52 FE 23.30 MG 28.17

COLOR INDEX : 38.13
HASHIMOTO INDEX : 38.75

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	10.00:
SR	520.00:Y	30.00:ZR	80.00:NB	30.00:BA	280.00:				

COMMENTS : PS070/75NW. MODERATELY WELL FOLIATED, MED. GREEN MAFIC TUFF? GREENISH-WHITE FELDSPAR GRAINS (1-2MM, 7%), ELONGATE IN PLANE OF FOLIATION. MATRIX TO AB15667?

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15669 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM262 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424835.0 N : 5419615.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.30	76.43	72.95
AL2O3	13.10	13.48	15.16
FE2O3	2.80	1.72	1.23
FEO	0.00	1.05	0.83
CAO	1.04	1.07	1.09
MGO	1.37	1.41	2.00
NA2O	1.46	1.50	2.78
K2O	2.97	3.06	3.72
TIO2	0.17	0.17	0.13
P2O5	0.05	0.05	0.04
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	97.22	100.00	100.00

NORMS	
Q	49.24
C	6.61
OR	18.62
AB	13.89
AN	5.12
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.01
FS	0.28
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.85
IL	0.25
CR	0.01
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.29
CPX	0.00
AB*	13.89

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.56 SIO2 76.43 SUBALKALINE
OL* 4.77 NE* 12.36 Q* 82.87 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 53.25 F 30.28 M 16.47 THOLEITIC
AL2O3 13.48 NORM PLAG 26.94 THOLEITIC
AN 13.61 AB* 36.92 OR 49.47 K-RICH SERIES
CI 6.39 NORM PLAG 26.94 DACITE

JENSEN CALC-ALKALINE DACITE
AL 78.11 FE 11.56 MG 10.33

COLOR INDEX : 6.39
HASHIMOTO INDEX : 63.45

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	140.00:
SR	130.00:Y	-10.00:ZR	80.00:NB	10.00:BA	590.00:				

COMMENTS : PS117/78SW. QTZ-FELDSPAR DACITIC COMP. CRYSTAL TUFF. MATRIX IS FINE GR. AGGREGATE OF CHLORITE AND WHITE MICA. RANDOMLY DISTRIBUTED/ORIENTED WHITE FELDSPAR (EQUANT TO ELLIPTICAL, 3-7MM, 10%). GREY VITREOUS QTZ. (2MM, <5%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15670 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM263 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424845.0 N : 541625.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,HOMOGENEOUS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	53.90	55.89	51.60
AL2O3	15.40	15.97	17.38
FE2O3	9.19	2.20	1.53
FEO	0.00	6.60	5.09
CAO	7.72	8.00	7.92
MGO	5.10	5.29	7.28
NA2O	4.01	4.16	7.44
K2O	0.84	0.87	1.03
TIO2	0.62	0.64	0.45
P2O5	0.22	0.23	0.18
MNO	0.11	0.11	0.09
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.04	0.04	0.03
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.85	0.00	0.00
TOTAL	96.44	100.00	100.00

NORMS	
Q	2.88
C	0.00
OR	5.13
AB	37.21
AN	22.27
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	8.21
HE	4.46
EN	10.45
FS	5.68
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.29
IL	0.89
CR	0.05
HM	0.00
AP	0.48
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	16.13
CPX	12.67
AB*	37.21

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.03 SIO2 55.89 SUBALKALINE
OL* 21.52 NE* 39.71 Q* 38.77 SUBALKALINE
CPX 43.99 OL 0.00 OPX 56.01 SUBALKALINE
A 26.62 F 45.39 M 27.99 THOLEITIC
AL2O3 15.97 NORM PLAG 37.44 CALC-ALKALINE
AN 34.46 AB* 57.59 OR 7.95 AVERAGE SERIES
CI 31.98 NORM PLAG 37.44 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 54.63 FE 22.50 MG 22.87

COLOR INDEX : 31.98
HASHIMOTO INDEX : 33.62

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	30.00:
SR	370.00:Y	10.00:ZR	40.00:NB	10.00:BA	130.00:				

COMMENTS : PS117/78SW. FINE GR., MED. GREEN, SLIGHTLY FOLIATED, HOMOGENEOUS, ANDESITIC TUFF? NON-DIAGNOSTIC ROCK.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
SAMPLE ID # AB15671 WHOLE ROCK GEOCHEMICAL ANALYSIS 11:47:10

LAB REPORT # 28877 FIELD NUMBER : 86116DM264 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424970.0 N : 5419825.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.20	53.56	50.09
AL2O3	16.60	18.07	19.92
FE2O3	8.10	2.48	1.75
FEO	0.00	5.70	4.46
CAO	9.80	10.67	10.69
MGO	2.66	2.90	4.04
NA2O	2.71	2.95	5.35
K2O	2.00	2.18	2.60
TIO2	0.78	0.85	0.60
P2O5	0.43	0.47	0.37
MNO	0.16	0.17	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	7.47	0.00	0.00
TOTAL	91.85	99.00	99.00

NORMS	
Q	2.52
C	0.00
OR	13.00
AB	26.75
AN	29.93
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	8.61
HE	7.74
EN	3.77
FS	3.38
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.62
IL	1.19
CR	0.75
HM	0.00
AP	0.99
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	7.15
CPX	16.35
AB*	26.75

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.13 SIO2 53.56 SUBALKALINE
OL* 14.73 NE* 44.06 Q* 41.21 SUBALKALINE
CPX 69.56 OL 0.00 OPX 30.44 ALKALINE
A 32.13 F 49.72 M 18.15 THOLEITIC
AL2O3 18.07 NORM PLAG 52.81 CALC-ALKALINE
AN 42.95 AB* 38.39 OR 18.66 AVERAGE SERIES
CI 27.31 NORM PLAG 52.81 BASALT

JENSEN CALC-ALKALINE ANDESITE
AL 64.47 FE 22.46 MG 13.06

COLOR INDEX : 27.31
HASHIMOTO INDEX : 27.14

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	60.00:
SR	540.00:Y	30.00:ZR	60.00:NB	10.00:BA	590.00:				

COMMENTS : PS110/84NE. ANDESITIC COMP. TUFF. SLIGHT CHANGES IN COMP. OF ASH AS DISPLAYED BY COLOUR VARIATIONS: MED. GREEN TO LT. GREEN. LT. GREEN BANDS IN MINORITY (2-3CM, <10%). COMPOSED FINE GR. AGGREG. OF CHLOR., WHITE MICA, QTZ., AND CC.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15672 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM265 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425055.0 N : 5420085.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,FELSIC,FINE,QUARTZ PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,LOOK AT COMMENTS FILE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	74.50	76.03	72.34	Q	37.57
AL2O3	13.00	13.27	14.88	C	3.28
FE2O3	0.94	0.96	0.69	OR	52.15
FEO	0.00	0.00	0.00	AB	4.89
CAO	0.16	0.16	0.17	AN	0.49
MGO	0.24	0.24	0.35	LC	0.00
NA2O	0.52	0.53	0.98	NE	0.00
K2O	8.41	8.58	10.43	KP	0.00
TIO2	0.16	0.16	0.12	AC	0.00
P2O5	0.05	0.05	0.04	DI	0.00
MNO	0.00	0.00	0.00	HE	0.00
S	0.00	0.00	0.00	EN	0.69
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.01	0.01	0.01	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	1.00	0.00	0.00	MT	0.00
				IL	0.00
TOTAL	97.99	100.00	100.00	CR	0.01
				HM	0.69
				AP	0.11
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.12
				AG	0.00
				OL	0.00
				OPX	0.69
				CPX	0.00
				AB*	4.89

CLASSIFICATIONS AND INDICES

NA2O+K2O 9.11 SIO2 76.03 SUBALKALINE
OL* 1.21 NE* 6.80 Q* 91.99 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 89.16 F 8.44 M 2.40 CALC-ALKALINE
AL2O3 13.27 NORM PLAG 9.09 CALC-ALKALINE
AN 0.85 AB* 8.51 OR 90.64 K-RICH SERIES
CI 1.38 NORM PLAG 9.09 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 92.82 FE 5.01 MG 2.17

COLOR INDEX : 1.38
HASHIMOTO INDEX : 92.71

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	10.00:BE	-10.00:B	30.00:SC	4.80:V	10.00:CR	140.00:MN	170.00:CO	2.00:
NI	3.00:CU	3.00:ZN	11.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:
CD	-0.20:SB	0.40:CS	0.90:LA	14.70:CE	40.00:ND	-5.00:SM	1.50:EU	-0.20:YB	1.80:
LU	0.31:HF	2.00:TA	-1.00:W	-3.00:PB	4.00:BI	-0.50:TH	7.10:U	1.70:RB	110.00:
SR	90.00:Y	10.00:ZR	70.00:NB	10.00:BA	1050.00:				

COMMENTS : PS132/63SW. QTZ-PHYRIC RHYOLITE. MATRIX IS APHANITIC, GREY-GREEN, QTZ-RICH (>90%). CLEAR VITREOUS TO GREY, ANHEDRAL QTZ. EYES (3-4MM, 7%). LIMONITIC SPOTS (3-4MM, <3%). RANDOMLY DISTRIBUTED THROUGHOUT, POSSIBLE WEATHERED PYRITE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15673 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM266 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425165.0 N : 5420345.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	48.50	51.01	46.84
AL203	18.80	19.77	21.40
FE203	10.70	2.42	1.67
FEO	0.00	7.95	6.10
CAO	4.93	5.19	5.10
MGO	5.68	5.97	8.18
NA20	3.68	3.87	6.89
K20	2.22	2.33	2.74
TI02	0.80	0.84	0.58
P205	0.42	0.44	0.34
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	95.07	99.00	99.00

NORMS	
Q	0.00
C	2.72
OR	13.69
AB	34.45
AN	22.64
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.17
FS	3.38
FO	8.38
FA	5.48
WO	0.00
LN	0.00
MT	2.51
IL	1.16
CR	0.75
HM	0.00
AP	0.92
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	13.86
OPX	8.55
CPX	0.00
AB*	34.45

CLASSIFICATIONS AND INDICES

NA20+K20 6.21 SI02 51.01 ALKALINE
OL* 35.66 NE* 36.35 Q* 27.99 SUBALKALINE
CPX 0.00 OL 61.84 OPX 38.16 SUBALKALINE
A 27.82 F 45.40 M 26.78 THOLEITIC
AL203 19.77 NORM PLAG 39.66 CALC-ALKALINE
AN 31.99 AB* 48.67 OR 19.34 SODIC
CI 26.09 NORM PLAG 39.66 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 56.19 FE 22.35 MG 21.46

COLOR INDEX : 26.09
HASHIMOTO INDEX : 47.85

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	920.00:Y	30.00:ZR	50.00:NB	10.00:BA	810.00:				

COMMENTS : PS126/66SW. ROCK IS SIMILAR TO AB15671. FINE GR., DK. GREEN, HOMOGENOUS. ANGULAR, ELLONGATE AMPHIBOLE GRAINS (2 X 5 MM MAXIMUM, 1 X 3MM MEAN, 15%). FINE CALCITE, 10%. POSSIBLE ANDESITIC TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15674 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM267 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425205.0 N : 5420425.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 19-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.60	49.79	47.06
AL2O3	18.20	19.04	21.21
FE2O3	11.50	2.47	1.76
FEO	0.00	8.60	6.80
CAO	11.20	11.71	11.87
MGO	4.33	4.53	6.38
NA2O	1.51	1.58	2.89
K2O	0.68	0.71	0.86
TIO2	0.86	0.90	0.64
P2O5	0.44	0.46	0.37
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	95.59	99.00	99.00

NORMS	
Q	3.49
C	0.00
OR	4.29
AB	14.47
AN	43.64
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	5.22
HE	4.87
EN	10.15
FS	9.47
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.63
IL	1.28
CR	0.75
HM	0.00
AP	0.98
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	19.62
CPX	10.09
AB*	14.47

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.29 SIO2 49.79 SUBALKALINE
OL* 39.15 NE* 23.10 Q* 37.75 SUBALKALINE
CPX 33.96 OL 0.00 OPX 66.04 SUBALKALINE
A 12.98 F 61.35 M 25.67 THOLEITIC
AL2O3 19.04 NORM PLAG 75.10 CALC-ALKALINE
AN 69.93 AB* 23.19 OR 6.88 AVERAGE SERIES
CI 33.62 NORM PLAG 75.10 BASALT

JENSEN CALC-ALKALINE BASALT
AL 57.40 FE 25.34 MG 17.27

COLOR INDEX : 33.62
HASHIMOTO INDEX : 28.27

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	30.00:
SR	1040.00:Y	10.00:ZR	50.00:NB	10.00:BA	560.00:				

COMMENTS : PS180/67E. MASSIVE HORNBLENDE-FELDSPAR-PHYRIC ANDESITIC TO DACITIC FLOW. FINE GR., PALE GREEN, AGGREG. OF QTZ. AND CHLOR (85%). HNBLD GRAINS, BLACK, EQUANT TO TEAR SHAPED. FROM 2MM TO 8 X 5MM, 5-7%. FELDSPAR (2MM, 10%) SUBHED, BLCKY.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15675 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM269 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425202.0 N : 5419877.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 20-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	77.80	79.70	75.98
AL2O3	13.10	13.42	15.08
FE2O3	1.68	1.72	1.23
FEO	0.00	0.00	0.00
CAO	0.12	0.12	0.13
MGO	1.13	1.16	1.64
NA2O	2.07	2.12	3.92
K2O	1.45	1.49	1.81
TIO2	0.19	0.19	0.14
P2O5	0.04	0.04	0.03
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	97.62	100.00	100.00

NORMS	
Q	57.01
C	9.21
OR	9.04
AB	19.60
AN	0.35
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.29
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.04
CR	0.01
HM	1.23
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.12
AG	0.00
OL	0.00
OPX	3.29
CPX	0.00
AB*	19.60

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.61 SIO2 79.70 SUBALKALINE
OL* 3.09 NE* 14.72 Q* 82.20 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 57.13 F 24.53 M 18.34 CALC-ALKALINE
AL2O3 13.42 NORM PLAG 1.76 CALC-ALKALINE
AN 1.21 AB* 67.59 OR 31.19 K-RICH SERIES
CI 4.57 NORM PLAG 1.76 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.21 FE 7.72 MG 9.07

COLOR INDEX : 4.57
HASHIMOTO INDEX : 54.09

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	50.00:
SR	330.00:Y	20.00:ZR	90.00:NB	20.00:BA	1170.00:				

COMMENTS : CHLORITE-SERICITE SCHIST, SILVER-GREEN IN COLOUR. DIFFUSE GREENISH-WHITE FELDSPAR GRAINS (1MM, <5%). RARE CLEAR TO GREY, VITREOUS QTZ. GRAINS (1.5 X 1.0MM, <5%), WHICH ARE ELLIPTICAL IN SHAPE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15676 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM270 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425297.0 N : 5419980.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 20-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.80	76.40	71.62
AL2O3	14.40	14.71	16.25
FE2O3	1.29	1.32	0.93
FEO	0.00	0.00	0.00
CAO	0.15	0.15	0.15
MGO	1.49	1.52	2.13
NA2O	3.15	3.22	5.85
K2O	2.33	2.38	2.85
TIO2	0.21	0.21	0.15
P2O5	0.04	0.04	0.03
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	97.91	100.00	100.00

NORMS	
Q	43.20
C	7.36
OR	14.25
AB	29.24
AN	0.50
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.25
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.06
CR	0.01
HM	0.93
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.12
AG	0.00
OL	0.00
OPX	4.25
CPX	0.00
AB*	29.24

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.60 SIO2 76.40 SUBALKALINE
OL* 4.16 NE* 22.87 Q* 72.97 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 67.40 F 14.28 M 18.33 CALC-ALKALINE
AL2O3 14.71 NORM PLAG 1.68 CALC-ALKALINE
AN 1.13 AB* 66.47 OR 32.39 K-RICH SERIES
CI 5.24 NORM PLAG 1.68 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.38 FE 5.71 MG 10.91

COLOR INDEX : 5.24
HASHIMOTO INDEX : 53.65

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	50.00:
SR	120.00:Y	20.00:ZR	110.00:NB	10.00:BA	1130.00:				

COMMENTS : PS106/72NE. QTZ-CHLORITE-SERICITE SCHIST (MATRIX >85%). PALE GREEN, EQUANT, CLEAR TO GREY, VITREOUS QTZ. GRAINS (1-6 MM, <7%). PLAGIO CRYSTALS SUBHEDRAL, BLOCKY TO EQUANT (1MM, <2%). FELDSPAR-QTZ. CRYSTAL DACITE TO RHYODACITE, AS 269.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15677 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM271 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425415.0 N : 5420205.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,HOMOGENEOUS ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 20-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.50	52.43	48.54
AL203	18.10	19.57	21.35
FE203	11.30	2.59	1.81
FEO	0.00	8.66	6.70
CAO	2.20	2.38	2.36
MGO	8.60	9.30	12.83
NA2O	1.76	1.90	3.42
K2O	1.37	1.48	1.75
TIO2	0.90	0.97	0.68
P2O5	0.35	0.38	0.30
MNO	0.29	0.31	0.25
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	7.00	0.00	0.00
TOTAL	92.50	100.00	100.00

NORMS	
Q	11.13
C	12.46
OR	8.76
AB	17.08
AN	9.32
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	25.66
FS	10.72
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.71
IL	1.35
CR	0.02
HM	0.00
AP	0.79
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	36.38
CPX	0.00
AB*	17.08

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.38 SIO2 52.43 SUBALKALINE
OL* 42.25 NE* 15.86 Q* 41.89 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 14.29 F 46.43 M 39.27 THOLEITIC
AL203 19.57 NORM PLAG 35.31 CALC-ALKALINE
AN 26.51 AB* 48.58 OR 24.91 K-RICH SERIES
CI 40.44 NORM PLAG 35.31 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 48.96 FE 21.63 MG 29.41

COLOR INDEX : 40.44
HASHIMOTO INDEX : 71.57

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	30.00:
SR	180.00:Y	10.00:ZR	40.00:NB	10.00:BA	520.00:				

COMMENTS : PS125/82SW. CHLORITE SCHIST, POSSIBLE MAFIC TUFF? MODERATELY CRENULATED, WAVELENGTH ABOUT 2CM.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:52:16

SAMPLE ID # AB15678 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 — FIELD NUMBER : 86116DM273 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092C16 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 425452.0 N : 5420265.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 20-JUL-86
ANALYZED BY : XRAL — DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.20	48.94	45.44
AL2O3	20.90	22.14	24.23
FE2O3	10.20	2.56	1.79
FEO	0.00	7.42	5.76
CAO	7.48	7.92	7.88
MGO	2.64	2.80	3.87
NA2O	3.11	3.29	5.93
K2O	3.10	3.28	3.89
TIO2	0.92	0.97	0.68
P2O5	0.45	0.48	0.37
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.85	0.00	0.00
TOTAL	94.39	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	19.47
AB	22.47
AN	36.01
LC	0.00
NE	4.31
KP	0.00
AC	0.00
DI	0.10
HE	0.12
EN	0.00
FS	0.00
FO	5.77
FA	7.20
WO	0.00
LN	0.00
MT	2.69
IL	1.36
CR	0.75
HM	0.00
AP	1.00
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	12.97
OPX	0.00
CPX	0.22
AB*	29.65

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.58 SIO2 48.94 ALKALINE
OL* 32.63 NE* 44.75 Q* 22.61 ALKALINE
CPX 1.66 OL 98.34 OPX 0.00 SUBALKALINE
A 34.45 F 50.91 M 14.64 THOLEITIC
AL2O3 22.14 NORM PLAG 54.84 CALC-ALKALINE
AN 42.30 AB* 34.83 OR 22.87 SODIC
CI 17.24 NORM PLAG 54.84 HAWAIITE
JENSEN THOLEIITIC DACITE
AL 66.42 FE 22.97 MG 10.61

COLOR INDEX : 17.24
HASHIMOTO INDEX : 35.15

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	60.00:
SR	610.00:Y	20.00:ZR	80.00:NB	20.00:BA	990.00:				

COMMENTS : MASSIVE HORNBLENDE-FELDSPAR-PHYRIC DACITE FLOW. MATRIX PALE GREEN, MODERATELY SILICEOUS. RANDOMLY DIST. THROUGHOUT ARE SUBHEDRAL TO ANHEDRAL, BLOCKY, BLACK HORNBLENDE PHENOS (4MM, 5-7%). FELDSPAR (1-2MM, 20%). AS IN AB15674.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15679 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM274 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425482.0 N : 5420315.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 20-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	46.60	49.04	46.29	Q	0.47
AL2O3	19.60	20.63	22.95	C	0.00
FE2O3	10.50	2.48	1.76	OR	13.07
FEO	0.00	7.71	6.08	AB	12.90
CAO	11.10	11.68	11.81	AN	44.38
MGO	3.27	3.44	4.84	LC	0.00
NA2O	1.34	1.41	2.58	NE	0.00
K2O	2.06	2.17	2.61	KP	0.00
TIO2	0.86	0.91	0.64	AC	0.00
P2O5	0.35	0.37	0.29	DI	4.72
MNO	0.16	0.17	0.13	HE	5.06
S	0.00	0.00	0.00	EN	7.32
NIO	0.00	0.00	0.00	FS	7.86
CR2O3	0.00	0.50	0.50	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	4.39	0.00	0.00	MT	2.65
				IL	1.28
TOTAL	95.01	99.00	99.00	CR	0.75
				HM	0.00
				AP	0.79
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	15.18
				CPX	9.78
				AB*	12.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.58 SIO2 49.04 SUBALKALINE
OL* 39.87 NE* 27.11 Q* 33.02 SUBALKALINE
CPX 39.19 OL 0.00 OPX 60.81 SUBALKALINE
A 21.09 F 58.62 M 20.29 THOLEITIC
AL2O3 20.63 NORM PLAG 77.48 CALC-ALKALINE
AN 63.09 AB* 18.34 OR 18.57 AVERAGE SERIES
CI 28.89 NORM PLAG 77.48 BASALT
JENSEN THOLEIITIC DACITE
AL 63.02 FE 23.69 MG 13.29

COLOR INDEX : 28.89
HASHIMOTO INDEX : 29.99

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	720.00:Y	20.00:ZR	50.00:NB	10.00:BA	860.00:				

COMMENTS : EQUIVALENT TO AB15678. HORNBLENDE-FELDSPAR-PHYRIC ANDESITE TO DACITE FLOW. FELDSPAR IS DIFFUSE GREEN (SAUSSERITIZED), 1-2MM, 10-12%). SUBHEDRAL, BLOCKY AMPHIBOLE (HBLD?) RANGE FROM 2-10M, <7%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15680 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM278 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427507.0 N : 5418353.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MAFIC PORPHYRITIC ,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 22-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.50	48.90	45.21
AL2O3	15.60	16.41	17.88
FE2O3	10.60	2.33	1.62
FEO	0.00	7.93	6.13
CAO	11.80	12.41	12.29
MGO	6.79	7.14	9.84
NA2O	2.85	3.00	5.37
K2O	0.58	0.61	0.72
TIO2	0.72	0.76	0.53
P2O5	0.31	0.33	0.26
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	95.09	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	3.60
AB	23.87
AN	29.46
LC	0.00
NE	1.80
KP	0.00
AC	0.00
DI	15.92
HE	7.98
EN	0.00
FS	0.00
FO	8.79
FA	4.40
WO	0.00
LN	0.00
MT	2.44
IL	1.05
CR	0.01
HM	0.00
AP	0.68
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	13.19
OPX	0.00
CPX	23.90
AB*	26.86

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.61 SIO2 48.90 SUBALKALINE
OL* 33.95 NE* 41.48 Q* 24.57 ALKALINE
CPX 64.43 OL 35.57 OPX 0.00 SUBALKALINE
A 17.36 F 48.27 M 34.37 THOLEITIC
AL2O3 16.41 NORM PLAG 52.31 CALC-ALKALINE
AN 49.17 AB* 44.82 OR 6.01 AVERAGE SERIES
CI 40.58 NORM PLAG 52.31 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 49.47 FE 23.30 MG 27.22

COLOR INDEX : 40.58
HASHIMOTO INDEX : 33.47

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	10.00:
SR	870.00:Y	10.00:ZR	30.00:NB	20.00:BA	260.00:				

COMMENTS : HORNBLENDE-PHYRIC ANDESITE FLOW. ANHEDRAL TO EUHEDRAL HORNBLENDE PHENOCRYSTS RANGING FROM 1-15MM, (MEAN SIZE 4-5MM), 15%. MATRIX IS FINE GRAINED, MEDIUM GREEN, ANDESITIC COMPOSITION.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15682 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116DM280 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 427525.0 N : 5418350.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 22-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 26-AUG-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.10	47.36	43.80
AL2O3	19.30	20.27	22.09
FE2O3	13.00	2.64	1.83
FEO	0.00	9.91	7.67
CAO	7.17	7.53	7.46
MGO	5.76	6.05	8.34
NA2O	3.48	3.65	6.55
K2O	0.78	0.82	0.97
TIO2	1.01	1.06	0.74
P2O5	0.45	0.47	0.37
MNO	0.22	0.23	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.70	0.00	0.00
TOTAL	95.21	99.00	99.00

NORMS	
Q	0.00
C	0.89
OR	4.84
AB	32.76
AN	34.22
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.09
FS	0.07
FO	12.44
FA	9.99
WO	0.00
LN	0.00
MT	2.75
IL	1.48
CR	0.75
HM	0.00
AP	0.99
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	22.43
OPX	0.16
CPX	0.00
AB*	32.76

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.47 SIO2 47.36 ALKALINE

OL* 40.73 NE* 35.52 Q* 23.75 SUBALKALINE

CPX 0.00 OL 99.30 OPX 0.70 SUBALKALINE

A 19.62 F 53.86 M 26.52 THOLEITIC

AL2O3 20.27 NORM PLAG 51.09 CALC-ALKALINE

AN 47.65 AB* 45.62 OR 6.74 SODIC

CI 26.81 NORM PLAG 51.09 HAWAIITE

JENSEN CALC-ALKALINE BASALT
AL 54.08 FE 25.51 MG 20.41

COLOR INDEX : 26.81
HASHIMOTO INDEX : 38.05

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	520.00:Y	10.00:ZR	70.00:NB	30.00:BA	320.00:				

COMMENTS : PROBABLE FELDSPAR CRYSTAL TUFF (BASALTIC, ANDESITIC COMPOSITION). FINE GRAINED, DK. GREEN MATRIX (>50%). LT. GREENISH-WHITE FELDSPAR GRAINS (2MM, <10%). ALONG FRACTURES ARE 4MM THICK EPIDOTE BANDS. POSSIBLY SLIGHTLY MYLONITIC ROCK.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:55:11

SAMPLE ID # AB15683 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 — FIELD NUMBER : 86116DM285A — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427480.0 N : 5417995.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 23-JUL-86
ANALYZED BY : XRAL — DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.80	74.97	70.50
AL2O3	13.80	14.21	15.75
FE2O3	2.64	1.84	1.30
FEO	0.00	0.79	0.62
CAO	0.72	0.74	0.75
MGO	0.72	0.74	1.04
NA2O	3.41	3.51	6.40
K2O	2.69	2.77	3.33
TIO2	0.29	0.30	0.21
P2O5	0.07	0.07	0.06
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	97.09	99.00	99.00

NORMS	
Q	38.67
C	4.72
OR	16.63
AB	32.01
AN	3.26
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.08
FS	0.59
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.96
IL	0.42
CR	0.75
HM	0.00
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.67
CPX	0.00
AB*	32.01

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.28 SIO2 74.97 SUBALKALINE
OL* 2.73 NE* 26.18 Q* 71.09 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 66.34 F 25.83 M 7.83 CALC-ALKALINE
AL2O3 14.21 NORM PLAG 9.23 CALC-ALKALINE
AN 6.27 AB* 61.68 OR 32.05 K-RICH SERIES
CI 5.05 NORM PLAG 9.23 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.05 FE 11.47 MG 5.48

COLOR INDEX : 5.05
HASHIMOTO INDEX : 45.23

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	70.00:
SR	170.00:Y	30.00:ZR	110.00:NB	10.00:BA	840.00:				

COMMENTS : INTERMED. COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF. QTZ. GRAINS ARE MILKY-WHITE (2MM, <7%) AND ELLIPTICAL IN SHAPE. FELDSPAR WHITE, SUBHEDRAL, BLOCKY (1MM, 15%). MATRIX IS FINE GRAINED, MEDIUM GREEN AND ACCOUNTS FOR >80% OF ROCK.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:55:54

SAMPLE ID # AB15684

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM286
LOT : 0 CONCESSION :

GRID COORDINATES : E : 427867.0 N : 5418230.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 23-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	75.30	77.28	72.69
AL203	11.30	11.60	12.86
FE203	1.85	1.72	1.22
FEO	0.00	0.16	0.12
CAO	2.56	2.63	2.65
MGO	0.72	0.74	1.04
NA2O	3.95	4.05	7.39
K2O	1.46	1.50	1.80
TI02	0.18	0.18	0.13
P205	0.05	0.05	0.04
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.62	0.00	0.00
TOTAL	97.43	100.00	100.00

NORMS	
Q	39.66
C	0.00
OR	9.00
AB	36.96
AN	9.16
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.99
HE	0.00
EN	0.58
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.14
IL	0.26
CR	0.01
HM	1.13
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.58
CPX	2.99
AB*	36.96

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.55 SI02 77.28 SUBALKALINE

OL* 0.56 NE* 28.73 Q* 70.71 SUBALKALINE

CPX 83.81 OL 0.00 OPX 16.19 ALKALINE

A 69.41 F 21.36 M 9.24 CALC-ALKALINE

AL203 11.60 NORM PLAG 19.87 THOLEITIC

AN 16.62 AB* 67.05 OR 16.33 AVERAGE SERIES

CI 5.09 NORM PLAG 19.87 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.35 FE 9.93 MG 6.72

COLOR INDEX : 5.09
HASHIMOTO INDEX : 25.09

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	150.00:Y	10.00:ZR	70.00:NB	20.00:BA	600.00:				

COMMENTS : PS124/73NE. CHLORITE-SERICITE SCHIST WITH QTZ. EYES. SILVER-GREEN, FINE GRAINED, DACITIC COMPOSITION. POSSIBLE CRYSTAL TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:56:38

SAMPLE ID # AB15685

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM287
LOT : 0 CONCESSION :
GRID COORDINATES : E : 427870.0 N : 5418260.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 23-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	69.70	72.35	68.73
AL203	14.90	15.47	17.32
FE203	4.53	1.82	1.30
FEO	0.00	2.60	2.06
CAO	0.41	0.43	0.43
MGO	2.17	2.25	3.19
NA2O	1.49	1.55	2.85
K2O	3.03	3.15	3.82
TIO2	0.25	0.26	0.19
P2O5	0.06	0.06	0.05
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.39	0.00	0.00
TOTAL	96.34	100.00	100.00

NORMS	
Q	43.57
C	9.95
OR	19.08
AB	14.24
AN	1.75
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	6.38
FS	2.57
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.95
IL	0.37
CR	0.01
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	8.94
CPX	0.00
AB*	14.24

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.69 SIO2 72.35 SUBALKALINE
OL* 10.05 NE* 12.80 Q* 77.15 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 41.98 F 37.86 M 20.16 THOLEITIC
AL203 15.47 NORM PLAG 10.93 CALC-ALKALINE
AN 4.98 AB* 40.61 OR 54.40 K-RICH SERIES
CI 11.26 NORM PLAG 10.93 DACITE

JENSEN CALC-ALKALINE DACITE
AL 71.82 FE 14.95 MG 13.23

COLOR INDEX : 11.26
HASHIMOTO INDEX : 73.24

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	70.00:
SR	90.00:Y	-10.00:ZR	120.00:NB	10.00:BA	1010.00:				

COMMENTS : PS137/57NE. FINE GRAINED, PALE GREEN, ANDESITIC TO DACITIC COMPOSITION, (MATRIX, >85%). MILKY-WHITE QTZ. GRAINS (3 X 2MM, <3%), ANHEDRAL GREENISH-WHITE PLAGIO (<1MM, >5%). MATRIX IS AGGREGATE OF CHLORITE AND WHITE MICA.

REPORT #2000

SAMPLE ID # AB15686

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM289
LOT : 0 CONCESSION :
GRID COORDINATES : E : 427085.0 N : 5418105.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,APHYRIC,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 23-JUN-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	44.70	46.99	44.18
AL2O3	14.10	14.82	16.43
FE2O3	15.10	4.45	3.15
FEO	0.00	10.28	8.08
CAO	7.72	8.12	8.18
MGO	8.18	8.60	12.05
NA2O	2.48	2.61	4.75
K2O	0.35	0.37	0.44
TIO2	2.73	2.87	2.03
P2O5	0.58	0.61	0.49
MNO	0.25	0.26	0.21
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.03	0.03	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.00	0.00	0.00
TOTAL	95.13	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	2.21
AB	23.76
AN	28.08
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	5.04
HE	1.96
EN	18.37
FS	7.14
FO	2.40
FA	0.93
WO	0.00
LN	0.00
MT	4.72
IL	4.06
CR	0.04
HM	0.00
AP	1.30
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	3.34
OPX	25.51
CPX	7.00
AB*	23.76

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.97 SIO2 46.99 SUBALKALINE

OL* 42.71 NE* 27.10 Q* 30.19 SUBALKALINE

CPX 19.52 OL 9.31 OPX 71.17 SUBALKALINE

A 11.51 F 55.24 M 33.26 THOLEITIC

AL2O3 14.82 NORM PLAG 54.17 THOLEITIC

AN 51.95 AB* 43.96 OR 4.09 AVERAGE SERIES

CI 44.62 NORM PLAG 54.17 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 39.16 FE 32.11 MG 28.73

COLOR INDEX : 44.62
HASHIMOTO INDEX : 45.54

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	360.00:Y	20.00:ZR	140.00:NB	40.00:BA	530.00:				

COMMENTS : PJ131/82SW, PJ022/68NE. MASSIVE, FINE GRAINED, DK. GREEN TO BLACK MAFIC ROCK. PROBABLE FINE GRAINED GABBRO.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:58:05

SAMPLE ID # AB15687 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 — FIELD NUMBER : 86116DM290 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 427072.0 N : 5418097.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,APHYRIC,MASSIVE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 23-JUL-86
ANALYZED BY : XRAL — DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.30	47.81	44.96
AL203	15.40	16.25	18.01
FE203	14.30	5.15	3.64
FEO	0.00	8.95	7.03
CAO	5.50	5.80	5.85
MGO	6.19	6.53	9.16
NA2O	3.23	3.41	6.21
K2O	1.39	1.47	1.76
TIO2	3.38	3.57	2.52
P2O5	0.76	0.80	0.64
MNO	0.25	0.26	0.21
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.08	0.00	0.00
TOTAL	94.75	99.00	99.00

NORMS	
Q	0.00
C	0.47
OR	8.81
AB	31.07
AN	23.91
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	15.12
FS	5.62
FO	2.39
FA	0.89
WO	0.00
LN	0.00
MT	5.47
IL	5.05
CR	0.75
HM	0.00
AP	1.70
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	3.28
OPX	20.74
CPX	0.00
AB*	31.07

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.88 SIO2 47.81 ALKALINE
OL* 34.19 NE* 33.84 Q* 31.97 SUBALKALINE
CPX 0.00 OL 13.64 OPX 86.36 SUBALKALINE
A 19.51 F 54.34 M 26.14 THOLEITIC
AL203 16.25 NORM PLAG 43.49 CALC-ALKALINE
AN 37.48 AB* 48.71 OR 13.81 SODIC
CI 34.53 NORM PLAG 43.49 HAWAIITE

JENSEN HIGH IRON THOLEIITIC BASALT
AL 44.39 FE 33.05 MG 22.56

COLOR INDEX : 34.53
HASHIMOTO INDEX : 46.47

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	180.00:Y	20.00:ZR	210.00:NB	50.00:BA	1940.00:				

COMMENTS : MASSIVE, LT. MAUVE-GREEN PLUTONIC ROCK. SUBHEDRAL, BLOCKY, DK. GREEN ACTINOLITE GRAINS (2-3MM, <10%), SET IN FINE GRAINED MATRIX. POSSIBLE LATER PHASE OF GABBRO.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
11:58:49

SAMPLE ID # AB15688

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM292
LOT : 0 CONCESSION :
GRID COORDINATES : E : 435560.0 N : 5414222.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 30-JUL-86
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	55.90	59.83	55.22
AL203	15.70	16.80	18.28
FE203	8.57	2.28	1.58
FEO	0.00	6.20	4.79
CAO	0.71	0.76	0.75
MGO	9.18	9.83	13.52
NA2O	1.94	2.08	3.72
K2O	1.08	1.16	1.36
TIO2	0.63	0.67	0.47
P2O5	0.11	0.12	0.09
MNO	0.26	0.28	0.22
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.16	0.00	0.00
TOTAL	93.43	100.00	100.00

NORMS	
Q	21.53
C	12.01
OR	6.81
AB	18.58
AN	2.99
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	27.03
FS	7.49
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.38
IL	0.94
CR	0.00
HM	0.00
AP	0.25
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	34.52
CPX	0.00
AB*	18.58

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.23 SIO2 59.83 SUBALKALINE

OL* 34.69 NE* 14.94 Q* 50.37 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 15.17 F 38.73 M 46.10 THOLEITIC

AL203 16.80 NORM PLAG 13.86 CALC-ALKALINE

AN 10.53 AB* 65.46 OR 24.01 AVERAGE SERIES

CI 37.83 NORM PLAG 13.86 ANDESITE

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 47.05 FE 18.16 MG 34.79

COLOR INDEX : 37.83
HASHIMOTO INDEX : 79.47

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 30.00:SR 20.00:Y -10.00:ZR 50.00:NB 20.00:BA 900.00:

COMMENTS : PS126/76NE. ANDESITIC COMPOSITION FELDSPAR CRYSTAL TUFF. ANHEDRAL, EQUANT FELDSPAR GRAINS (1MM, <10%), WHITE WITH GREENISH TINGE. ESSENTIALLY SERICITE-CHLORITE SCHIST.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15689

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 | FIELD NUMBER : 86116DM293 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 435585.0 N : 5414165.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. | DATE : 30-JUL-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 08-SEP-86 | TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	54.20	57.78	53.08
AL2O3	16.20	17.27	18.70
FE2O3	9.37	2.31	1.60
FEO	0.00	6.91	5.31
CAO	2.02	2.15	2.12
MGO	8.26	8.81	12.05
NA2O	3.14	3.35	5.96
K2O	0.32	0.34	0.40
TIO2	0.67	0.71	0.49
P2O5	0.12	0.13	0.10
MNO	0.23	0.25	0.19
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.77	0.00	0.00
TOTAL	93.81	100.00	100.00

NORMS	
Q	13.83
C	8.43
OR	2.00
AB	29.81
AN	9.77
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	24.11
FS	8.41
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.40
IL	0.99
CR	0.00
HM	0.00
AP	0.27
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	32.52
CPX	0.00
AB*	29.81

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.69 SIO2 57.78 SUBALKALINE

OL* 32.03 NE* 23.49 Q* 44.49 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 17.17 F 41.84 M 40.99 THOLEITIC

AL2O3 17.27 NORM PLAG 24.68 CALC-ALKALINE

AN 23.49 AB* 71.69 OR 4.81 K-POOR SERIES

CI 35.90 NORM PLAG 24.68 ANDESITE

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 48.77 FE 19.79 MG 31.44

COLOR INDEX : 35.90
HASHIMOTO INDEX : 62.45

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 10.00:SR 90.00:Y -10.00:ZR 40.00:NB 20.00:BA 660.00:

COMMENTS : PS113/60NE. ANDESITIC COMPOSITION FELDSPAR CRYSTAL TUFF. ANHEDRAL, WHITE, EQUANT FELDSPARS (1MM, <15%). MINOR WEATHERED OUT PYRITE GRAINS (1MM, <1%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15690 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM294 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 435265.0 N : 5414852.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,INTERMEDIATE,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,ARGILLIC ALTERATION ,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 30-JUL-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.10	53.82	49.42
AL203	17.90	18.49	20.01
FE203	6.74	2.29	1.58
FEO	0.00	4.20	3.23
CAO	9.51	9.82	9.66
MGO	4.86	5.02	6.87
NA2O	3.60	3.72	6.62
K2O	1.55	1.60	1.88
TIO2	0.72	0.74	0.51
P2O5	0.11	0.11	0.09
MNO	0.16	0.17	0.13
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.46	0.00	0.00
TOTAL	96.80	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	9.39
AB	33.10
AN	28.79
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	11.59
HE	3.46
EN	7.12
FS	2.12
FO	0.62
FA	0.19
WO	0.00
LN	0.00
MT	2.38
IL	1.03
CR	0.00
HM	0.00
AP	0.24
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.81
OPX	9.24
CPX	15.04
AB*	33.10

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.32 SIO2 53.82 SUBALKALINE

OL* 17.93 NE* 46.03 Q* 36.04 SUBALKALINE

CPX 59.95 OL 3.22 OPX 36.82 ALKALINE

A 32.04 F 37.73 M 30.23 THOLEITIC

AL203 18.49 NORM PLAG 46.52 CALC-ALKALINE

AN 40.39 AB* 46.44 OR 13.17 AVERAGE SERIES

CI 28.49 NORM PLAG 46.52 BASALT

JENSEN CALC-ALKALINE ANDESITE
AL 61.89 FE 16.86 MG 21.25

COLOR INDEX : 28.49
HASHIMOTO INDEX : 32.84

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	SR	Y	ZR	NB	BA	
30.00:	240.00:	20.00:	10.00:	-10.00:	1450.00:	

COMMENTS : BLUISH-WHITE, FINE GR., MASSIVE ROCK COMPOSED OF AGGREGATE OF QTZ., WHITE MICA AND CLAY MINERALS. SUBTLE WHITE GREENISH FELDSPAR GR. (1MM TO 1 X 3MM). POSSIBLE ARGILLIC ALT'N (>20%). VUGS (<1CM), FILLED WITH EPIDOTE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:00:50

SAMPLE ID # AB15692

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM296
LOT : 0 CONCESSION :
GRID COORDINATES : E : 435313.0 N : 5414194.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 30-JUL-86
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	54.50	58.24	53.44
AL203	17.40	18.59	20.11
FE203	8.42	2.37	1.64
FEO	0.00	5.96	4.58
CAO	0.67	0.72	0.70
MGO	7.34	7.84	10.73
NA2O	3.05	3.26	5.80
K2O	1.73	1.85	2.17
TIO2	0.72	0.77	0.53
P2O5	0.13	0.14	0.11
MNO	0.24	0.26	0.20
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.47	0.00	0.00
TOTAL	93.58	100.00	100.00

NORMS	
Q	14.35
C	11.10
OR	10.83
AB	28.99
AN	2.62
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	21.45
FS	6.85
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.46
IL	1.06
CR	0.00
HM	0.00
AP	0.29
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	28.30
CPX	0.00
AB*	28.99

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.11 SIO2 58.24 SUBALKALINE

OL* 29.63 NE* 24.28 Q* 46.09 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 24.27 F 38.47 M 37.27 THOLEITIC

AL2O3 18.59 NORM PLAG 8.28 CALC-ALKALINE

AN 6.17 AB* 68.31 OR 25.52 K-RICH SERIES

CI 31.82 NORM PLAG 8.28 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 53.23 FE 18.38 MG 28.39

COLOR INDEX : 31.82
HASHIMOTO INDEX : 70.91

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 40.00:SR 50.00:Y 20.00:ZR 50.00:NB 20.00:BA 2550.00:

COMMENTS : PS117/67NE. FINE GR., MED. GREEN, SLIGHTLY CRENULATED, ANDESITIC COMPOSITION HOMOGENEOUS TUFF, SLIGHTLY CHLORITIC. DISSEMINATED PYRITE (<3%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15693

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM297
LOT : 0 CONCESSION :
GRID COORDINATES : E : 435317.0 N : 5414182.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 30-JUL-86
ANALYZED BY : XRAL DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	53.40	56.61	52.11
AL2O3	16.80	17.81	19.33
FE2O3	9.77	2.32	1.61
FEO	0.00	7.23	5.57
CAO	3.24	3.43	3.39
MGO	6.71	7.11	9.76
NA2O	3.65	3.87	6.91
K2O	0.33	0.35	0.41
TIO2	0.69	0.73	0.51
P2O5	0.15	0.16	0.12
MNO	0.35	0.37	0.29
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.62	0.00	0.00
TOTAL	94.33	100.00	100.00

NORMS	
Q	9.50
C	5.65
OR	2.06
AB	34.53
AN	15.91
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	19.52
FS	9.09
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.41
IL	1.01
CR	0.00
HM	0.00
AP	0.33
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	28.61
CPX	0.00
AB*	34.53

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.22 SIO2 56.61 SUBALKALINE

OL* 29.54 NE* 28.52 Q* 41.94 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 20.43 F 45.13 M 34.44 THOLEITIC

AL2O3 17.81 NORM PLAG 31.54 CALC-ALKALINE

AN 30.30 AB* 65.78 OR 3.92 K-POOR SERIES

CI 32.04 NORM PLAG 31.54 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 52.15 FE 21.51 MG 26.34

COLOR INDEX : 32.04
HASHIMOTO INDEX : 50.54

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 10.00:SR 140.00:Y 10.00:ZR 40.00:NB 10.00:BA 590.00:

COMMENTS : PS117/67NE. ANDESITIC COMPOSITION FELDSPAR CRYSTAL TUFF. MED. GREEN MATRIX. FELDSPAR CRYSTALS ARE GREENISH-WHITE (1MM, <10%). RANDOMLY DIST. THROUGHOUT ARE BLEBS, DISSEMINATIONS OF PYRITE (3 X 1MM TO 10 X 2MM, 3%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:02:11

SAMPLE ID # AB15694 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM298 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 435516.0 N : 5415530.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,TECTONIZED.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 01-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	77.10	79.85	77.22
AL2O3	13.80	14.29	16.29
FE2O3	1.68	1.74	1.27
FEO	0.00	0.00	0.00
CAO	0.20	0.21	0.21
MGO	0.06	0.06	0.09
NA2O	0.42	0.43	0.82
K2O	3.06	3.17	3.91
TIO2	0.18	0.19	0.14
P2O5	0.05	0.05	0.04
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.77	0.00	0.00
TOTAL	96.56	100.00	100.00

NORMS	
Q	62.66
C	11.27
OR	19.57
AB	4.08
AN	0.72
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.18
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.02
CR	0.00
HM	1.27
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.13
AG	0.00
OL	0.00
OPX	0.18
CPX	0.00
AB*	4.08

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.60 SIO2 79.85 SUBALKALINE
OL* 0.20 NE* 3.66 Q* 96.14 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 68.89 F 29.92 M 1.19 CALC-ALKALINE
AL2O3 14.29 NORM PLAG 14.99 CALC-ALKALINE
AN 2.95 AB* 16.73 OR 80.32 K-RICH SERIES
CI 1.46 NORM PLAG 14.99 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 91.57 FE 7.93 MG 0.50

COLOR INDEX : 1.46
HASHIMOTO INDEX : 83.42

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 80.00:SR 90.00:Y -10.00:ZR 90.00:NB 10.00:BA 1720.00:

COMMENTS : PS116/90. EXTREMELY SCHISTOSE, CRENULATED, SILVER-WHITE SERICITE SCHIST. NO CRYSTALS PRESENT.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15695 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM301 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 435165.0 N : 5415467.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 01-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	75.80	78.65	75.62	Q	52.92
AL203	12.10	12.55	14.23	C	3.77
FE203	1.64	1.70	1.23	OR	18.73
FEO	0.00	0.00	0.00	AB	10.73
CAO	2.20	2.28	2.35	AN	11.41
MGO	0.31	0.32	0.46	LC	0.00
NA20	1.11	1.15	2.15	NE	0.00
K20	2.94	3.05	3.75	KP	0.00
TI02	0.17	0.18	0.13	AC	0.00
P205	0.05	0.05	0.04	DI	0.00
MNO	0.06	0.06	0.05	HE	0.00
S	0.00	0.00	0.00	EN	0.92
NIO	0.00	0.00	0.00	FS	0.00
CR203	0.00	0.00	0.00	FO	0.00
C02	0.00	0.00	0.00	FA	0.00
H20+	0.00	0.00	0.00	WO	0.00
H20-	0.00	0.00	0.00	LN	0.00
LOI	3.00	0.00	0.00	MT	0.00
				IL	0.10
TOTAL	96.38	100.00	100.00	CR	0.00
				HM	1.23
				AP	0.11
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.08
				AG	0.00
				OL	0.00
				OPX	0.92
				CPX	0.00
				AB*	10.73

CLASSIFICATIONS AND INDICES

NA20+K20 4.20 SI02 78.65 SUBALKALINE
OL* 1.07 NE* 9.97 Q* 88.96 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 69.40 F 25.29 M 5.31 CALC-ALKALINE
AL203 12.55 NORM PLAG 51.52 THOLEITIC
AN 27.91 AB* 26.26 OR 45.83 K-RICH SERIES
CI 2.25 NORM PLAG 51.52 HIGH ALUMINA ANDESITE

JENSEN CALC-ALKALINE RHYOLITE
AL 88.38 FE 8.76 MG 2.86

COLOR INDEX : 2.25
HASHIMOTO INDEX : 49.54

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	SR	Y	ZR	NB	BA
90.00:	80.00:	10.00:	80.00:	10.00:	1170.00:

COMMENTS : PS131/84NE. FINE GRAINED SERICITE SCHIST WITH INTERBEDS OF MORE INTERMEDIATE COMPOSITION TUFF AND MINOR INTERBEDS OF BLACK SILTSTONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
12:03:33

SAMPLE ID # AB15696 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM304
LOT : 0 CONCESSION :

GRID COORDINATES : E : 434645.0 N : 5414452.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 02-AUG-86
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	72.60	75.48	70.99
AL203	12.40	12.89	14.29
FE203	3.17	1.86	1.32
FEO	0.00	1.29	1.02
CAO	0.38	0.40	0.40
MGO	2.51	2.61	3.66
NA2O	3.05	3.17	5.78
K2O	1.78	1.85	2.22
TI02	0.29	0.30	0.21
P205	0.06	0.06	0.05
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	2.93	0.00	0.00
TOTAL	96.18	100.00	100.00

NORMS	
Q	42.48
C	5.66
OR	11.11
AB	28.91
AN	1.58
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	7.32
FS	0.42
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.98
IL	0.43
CR	0.00
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	7.73
CPX	0.00
AB*	28.91

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.02 SI02 75.48 SUBALKALINE

OL* 7.33 NE* 21.92 Q* 70.75 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 47.39 F 27.99 M 24.63 CALC-ALKALINE

AL203 12.89 NORM PLAG 5.17 CALC-ALKALINE

AN 3.79 AB* 69.49 OR 26.72 K-RICH SERIES

CI 10.14 NORM PLAG 5.17 RHYOLITE

JENSEN CALC-ALKALINE ANDESITE
AL 69.51 FE 12.70 MG 17.79

COLOR INDEX : 10.14
HASHIMOTO INDEX : 55.57

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 40.00:SR 130.00:Y 20.00:ZR 110.00:NB 10.00:BA 2630.00:

COMMENTS : PS106/81NE. SCHISTOSE, FINE GR., PALE WHITE-GREEN FELSIC ROCK (VOLCANICLASTIC?). AGGREGATE OF QTZ., CHLORITE, AND SERICITE. PYRITE DISSEMINATIONS ((1MM, (3%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:04:13

SAMPLE ID # AB15697

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM305
LOT : 0 CONCESSION :
GRID COORDINATES : E : 434655.0 N : 5414447.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 02-AUG-86
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	78.70	81.41	77.29
AL203	10.50	10.86	12.15
FE203	1.20	1.24	0.89
FEO	0.00	0.00	0.00
CAO	0.09	0.09	0.09
MGO	1.88	1.94	2.75
NA2O	2.34	2.42	4.46
K2O	1.77	1.83	2.22
TIO2	0.14	0.14	0.10
P2O5	0.02	0.02	0.02
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	96.67	100.00	100.00

NORMS	
Q	54.38
C	5.35
OR	11.10
AB	22.28
AN	0.33
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.50
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.05
CR	0.00
HM	0.89
AP	0.04
PO	0.00
NS	0.00
KS	0.00
RU	0.08
AG	0.00
OL	0.00
OPX	5.50
CPX	0.00
AB*	22.28

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.25 SIO2 81.41 SUBALKALINE
OL* 5.02 NE* 16.27 Q* 78.71 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 58.13 F 15.27 M 26.59 CALC-ALKALINE
AL203 10.86 NORM PLAG 1.48 THOLEITIC
AN 0.99 AB* 66.08 OR 32.93 K-RICH SERIES
CI 6.44 NORM PLAG 1.48 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 76.34 FE 6.38 MG 17.28

COLOR INDEX : 6.44
HASHIMOTO INDEX : 60.03

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 50.00:SR 110.00:Y 20.00:ZR 80.00:NB 10.00:BA 2280.00:

COMMENTS : PS112/80NE. QTZ-SERICITE SCHIST, SLIGHTLY PYRITIC (<<<1%). WARPING IN OUTCROP MAY INDICATE THAT SAMPLE WAS TAKEN ON NORTH LIMB OF FOLD.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15698

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM306
LOT : 0 CONCESSION :
GRID COORDINATES : E : 434735.0 N : 5414400.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 02-AUG-86
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	80.40	83.35	80.72
AL203	9.84	10.20	11.64
FE203	1.78	1.70	1.24
FEO	0.00	0.13	0.11
CAO	0.06	0.06	0.06
MGO	1.33	1.38	1.99
NA2O	0.59	0.61	1.15
K2O	2.29	2.37	2.94
TIO2	0.14	0.15	0.11
P2O5	0.02	0.02	0.02
MNO	0.03	0.03	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	96.47	100.00	100.00

NORMS	
Q	66.41
C	7.49
OR	14.68
AB	5.74
AN	0.18
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.98
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.08
IL	0.21
CR	0.00
HM	1.19
AP	0.05
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.98
CPX	0.00
AB*	5.74

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.99 SIO2 83.35 SUBALKALINE
OL* 3.92 NE* 4.53 Q* 91.55 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 49.56 F 27.56 M 22.89 CALC-ALKALINE
AL203 10.20 NORM PLAG 3.05 THOLEITIC
AN 0.88 AB* 27.87 OR 71.25 K-RICH SERIES
CI 5.46 NORM PLAG 3.05 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 77.06 FE 9.77 MG 13.17

COLOR INDEX : 5.46
HASHIMOTO INDEX : 84.78

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 80.00:SR 30.00:Y 10.00:ZR 90.00:NB 20.00:BA 2300.00:

COMMENTS : PS126/70NE. RHYODACITIC COMPOSITION TUFF. FINE GR., SILVERY-GREEN AGGREGATE OF CHLORITE AND WHITE MICA. RANDOMLY DIST. THROUGHOUT, BUT ALIGNED PARALLEL TO FOLIATION, ARE DK. GREEN CHLORITE BANDS, FLATTENED LAPILLI OR DIFF. COMP. ASH.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:05:35

SAMPLE ID # AB15699 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM307 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 434635.0 N : 5414407.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 02-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.20	50.86	48.48
AL2O3	15.60	16.46	18.49
FE2O3	13.00	3.86	2.77
FEO	0.00	8.87	7.07
CAO	9.59	10.12	10.33
MGO	4.94	5.21	7.40
NA2O	1.74	1.84	3.39
K2O	0.06	0.06	0.08
TIO2	2.16	2.28	1.63
P2O5	0.21	0.22	0.18
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.70	0.00	0.00
TOTAL	94.76	100.00	100.00

NORMS	
Q	8.89
C	0.00
OR	0.39
AB	16.96
AN	37.56
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	6.43
HE	3.67
EN	11.59
FS	6.61
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	4.16
IL	3.27
CR	0.00
HM	0.00
AP	0.48
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	18.20
CPX	10.10
AB*	16.96

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.90 SIO2 50.86 SUBALKALINE
OL* 30.98 NE* 23.10 Q* 45.92 SUBALKALINE
CPX 35.68 OL 0.00 OPX 64.32 SUBALKALINE
A 9.76 F 63.44 M 26.79 THOLEITIC
AL2O3 16.46 NORM PLAG 68.89 THOLEITIC
AN 68.40 AB* 30.89 OR 0.70 K-POOR SERIES
CI 35.72 NORM PLAG 68.89 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 49.26 FE 31.01 MG 19.72

COLOR INDEX : 35.72
HASHIMOTO INDEX : 30.62

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	-10.00:BE	-10.00:B	20.00:SC	34.40:V	400.00:CR	62.00:CO	36.00:NI	59.00:
CU	200.00:ZN	150.00:GE	-10.00:AS	5.00:SE	-3.00:BR	1.00:RB	10.00:SR	440.00:Y	30.00:
ZR	120.00:NB	20.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	1.00:CS	1.90:BA	120.00:LA	13.10:
CE	28.00:ND	16.00:SM	4.80:EU	2.30:YB	2.40:LU	0.40:HF	4.00:TA	-1.00:W	-3.00:
PB	6.00:BI	-0.50:TH	1.20:U	0.50:					

COMMENTS : MED. GREEN, FELDSPAR-PHYRIC BASALTIC ANDESITIC COMPOSITION SILL. SUBHEDRAL TO ANHEDRAL, BLOCKY FELDSPAR PHENOCRYSTS (2-15MM, 20%). FINE GR. ACTINOLITE-RICH GROUNDMASS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:06:18

SAMPLE ID # AB15700

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM309
LOT : 0 CONCESSION :
GRID COORDINATES : E : 434600.0 N : 5414672.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 02-AUG-86
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	77.10	79.40	75.66
AL2O3	13.50	13.90	15.62
FE2O3	0.68	0.70	0.50
FEO	0.00	0.00	0.00
CAO	0.13	0.13	0.14
MGO	0.42	0.43	0.61
NA2O	1.63	1.68	3.10
K2O	3.24	3.34	4.06
TIO2	0.31	0.32	0.23
P2O5	0.07	0.07	0.06
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.10	100.00	100.00

NORMS	
Q	53.48
C	8.37
OR	20.30
AB	15.51
AN	0.20
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.23
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.03
CR	0.00
HM	0.50
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.21
AG	0.00
OL	0.00
OPX	1.23
CPX	0.00
AB*	15.51

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.02 SIO2 79.40 SUBALKALINE

OL* 1.31 NE* 13.25 Q* 85.44 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 82.52 F 10.37 M 7.12 CALC-ALKALINE

AL2O3 13.90 NORM PLAG 1.26 CALC-ALKALINE

AN 0.55 AB* 43.06 OR 56.39 K-RICH SERIES

CI 1.76 NORM PLAG 1.26 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 91.98 FE 4.40 MG 3.62

COLOR INDEX : 1.76
HASHIMOTO INDEX : 67.53

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 70.00:SR 80.00:Y 30.00:ZR 120.00:NB 20.00:BA 1730.00:

COMMENTS : SERICITE SCHIST WITH RARE, DIFFUSE FELDSPAR GRAINS (<7%), INDICATIVE OF VOLCANICLASTIC ORIGIN? RUBBLE, CLOSE TO SURFACE.

SAMPLE ID # AB15801 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PW001 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431860.0 N : 5416285.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,BEDDED,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. DATE : 26-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.10	74.50	70.11
AL2O3	14.50	14.78	16.39
FE2O3	2.31	1.79	1.27
FEO	0.00	0.50	0.40
CAO	1.27	1.29	1.31
MGO	1.13	1.15	1.62
NA2O	3.00	3.06	5.58
K2O	2.48	2.53	3.04
TIO2	0.26	0.26	0.19
P2O5	0.07	0.07	0.06
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	98.11	99.00	99.00

NORMS	
Q	40.10
C	5.36
OR	15.19
AB	27.89
AN	6.05
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.23
FS	0.25
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.91
IL	0.38
CR	0.75
HM	0.00
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.48
CPX	0.00
AB*	27.89

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.58 SIO2 74.50 SUBALKALINE
OL* 3.65 NE* 23.41 Q* 72.94 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 63.07 F 23.92 M 13.01 CALC-ALKALINE
AL2O3 14.78 NORM PLAG 17.83 CALC-ALKALINE
AN 12.32 AB* 56.77 OR 30.92 K-RICH SERIES
CI 5.76 NORM PLAG 17.83 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.33 FE 9.56 MG 8.11

COLOR INDEX : 5.76
HASHIMOTO INDEX : 45.81

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	340.00:Y	30.00:ZR	110.00:NB	20.00:BA	1010.00:AU	0.00:LI	10.00:BE	-10.00:
B	30.00:SC	0.00:V	30.00:CR	0.00:MN	390.00:CO	0.00:NI	6.00:CU	8.00:ZN	47.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS298/68S, PS282/66S.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:07:42

SAMPLE ID # AB15802 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PW002
LOT : 0 CONCESSION :
GRID COORDINATES : E : 431957.0 N : 5416507.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,SCHIST,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING.
ANALYZED BY : XRAL

DATE : 26-MAY-86
DATE : 13-JUN-86

ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	74.20	76.86	72.95
AL203	13.50	13.98	15.64
FE203	2.10	1.79	1.28
FEO	0.00	0.34	0.27
CAO	0.38	0.39	0.40
MGO	1.20	1.24	1.76
NA2O	2.07	2.14	3.95
K2O	2.74	2.84	3.44
TI02	0.23	0.24	0.17
P2O5	0.06	0.06	0.05
MNO	0.10	0.10	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.53	99.00	99.00

NORMS	
Q	48.36
C	7.62
OR	17.20
AB	19.73
AN	1.58
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.52
FS	0.09
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.92
IL	0.34
CR	0.75
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.61
CPX	0.00
AB*	19.73

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.98 SI02 76.86 SUBALKALINE
OL* 3.78 NE* 16.51 Q* 79.71 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 60.89 F 23.92 M 15.19 CALC-ALKALINE
AL203 13.98 NORM PLAG 7.43 CALC-ALKALINE
AN 4.11 AB* 51.22 OR 44.66 K-RICH SERIES
CI 5.87 NORM PLAG 7.43 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.44 FE 9.41 MG 9.15

COLOR INDEX : 5.87
HASHIMOTO INDEX : 61.66

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	130.00:Y	-10.00:ZR	90.00:NB	20.00:BA	1450.00:AU	0.00:LI	10.00:BE	-10.00:
B	40.00:SC	0.00:V	30.00:CR	0.00:MN	810.00:CO	0.00:NI	6.00:CU	2.00:ZN	88.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	8.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PALE GREEN SCHIST OF INTERMEDIATE COMPOSITION. QTZ. EYES (<2MM) AND FELDSPAR CRYSTALS (<1MM). ROCK INTERPRETED TO BE METAMORPHOSED TUFF.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15803 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PW003
LOT : 0 CONCESSION :
GRID COORDINATES : E : 432040.0 N : 5416590.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,WHITE MICA,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING.
ANALYZED BY : XRAL

DATE : 26-MAY-86
DATE : 13-JUN-86

ANALYTICAL
TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.50	76.55	72.16
AL2O3	13.70	14.08	15.64
FE2O3	1.80	1.73	1.22
FEO	0.00	0.11	0.09
CAO	0.63	0.65	0.65
MGO	1.43	1.47	2.06
NA2O	2.78	2.86	5.22
K2O	2.20	2.26	2.72
TIO2	0.18	0.18	0.13
P2O5	0.05	0.05	0.04
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.47	0.00	0.00
TOTAL	97.31	99.00	99.00

NORMS	
Q	45.10
C	6.53
OR	13.61
AB	26.10
AN	2.93
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.13
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.52
IL	0.26
CR	0.75
HM	0.21
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.13
CPX	0.00
AB*	26.10

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.12 SIO2 76.55 SUBALKALINE
OL* 4.11 NE* 20.79 Q* 75.10 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.02 F 20.17 M 17.81 CALC-ALKALINE
AL2O3 14.08 NORM PLAG 10.08 CALC-ALKALINE
AN 6.86 AB* 61.22 OR 31.92 K-RICH SERIES
CI 6.12 NORM PLAG 10.08 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.47 FE 7.77 MG 10.75

COLOR INDEX : 6.12
HASHIMOTO INDEX : 51.56

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	70.00:SR	190.00:Y	10.00:ZR	80.00:NB	20.00:BA	1550.00:AU	0.00:LI	10.00:BE	-10.00:
B	50.00:SC	0.00:V	20.00:CR	0.00:MN	380.00:CO	0.00:NI	5.00:CU	1.50:ZN	35.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS309/75, PS302/73. INTERPRETED TO BE METAMORPHOSED TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:09:09

SAMPLE ID # AB15804

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 | FIELD NUMBER : 86116PW004 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 432115.0 N : 5416780.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,MEDIUM,MASSIVE ,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. | DATE : 26-MAY-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 13-JUN-86 | TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.20	49.45	46.35
AL2O3	16.30	17.08	18.86
FE2O3	12.70	3.41	2.40
FEO	0.00	8.91	6.98
CAO	9.08	9.51	9.55
MGO	5.94	6.22	8.69
NA2O	2.66	2.79	5.06
K2O	0.41	0.43	0.51
TIO2	1.75	1.83	1.29
P2O5	0.16	0.17	0.13
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.70	0.00	0.00
TOTAL	95.43	99.00	99.00

NORMS	
Q	0.00
C	0.00
OR	2.57
AB	25.32
AN	33.22
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	6.75
HE	4.00
EN	13.50
FS	8.00
FO	0.38
FA	0.23
WO	0.00
LN	0.00
MT	3.60
IL	2.58
CR	0.75
HM	0.00
AP	0.36
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.61
OPX	21.50
CPX	10.75
AB*	25.32

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.22 SIO2 49.45 SUBALKALINE
OL* 35.28 NE* 32.03 Q* 32.69 SUBALKALINE
CPX 32.72 OL 1.85 OPX 65.43 SUBALKALINE
A 15.02 F 55.91 M 29.06 THOLEITIC
AL2O3 17.08 NORM PLAG 56.75 CALC-ALKALINE
AN 54.36 AB* 41.43 OR 4.21 AVERAGE SERIES
CI 39.04 NORM PLAG 56.75 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 49.14 FE 28.22 MG 22.64

COLOR INDEX : 39.04
HASHIMOTO INDEX : 35.10

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	20.00:SR	260.00:Y	30.00:ZR	90.00:NB	20.00:BA	260.00:AU	0.00:LI	-10.00:BE	-10.00:
B	30.00:SC	0.00:V	370.00:CR	0.00:MN	1200.00:CO	0.00:NI	66.00:CU	130.00:ZN	130.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	-2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : O/C MAY BE A LARGE BOULDER. QTZ. VEINS CROSS CUT ROCK. EPIDOTE ALTERATION OCCURS AS ENVELOPES OF QTZ. VEINS AND ALONG FRACTURES.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:09:53

SAMPLE ID # AB15805 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116PW005 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431810.0 N : 5416390.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,WHITE MICA,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. — DATE : 26-MAY-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 13-JUN-86 — TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.60	77.92	73.20
AL2O3	12.60	12.82	14.19
FE2O3	1.88	1.70	1.20
FEO	0.00	0.19	0.15
CAO	0.34	0.35	0.35
MGO	0.65	0.66	0.93
NA2O	3.90	3.97	7.23
K2O	2.10	2.14	2.56
TIO2	0.17	0.17	0.12
P2O5	0.04	0.04	0.03
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.39	0.00	0.00
TOTAL	98.30	99.00	99.00

NORMS	
Q	42.32
C	3.82
OR	12.81
AB	36.13
AN	1.47
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.85
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.71
IL	0.24
CR	0.75
HM	0.06
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.85
CPX	0.00
AB*	36.13

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.10 SIO2 77.92 SUBALKALINE
OL* 1.73 NE* 26.99 Q* 71.28 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 71.93 F 20.28 M 7.79 CALC-ALKALINE
AL2O3 12.82 NORM PLAG 3.91 CALC-ALKALINE
AN 2.92 AB* 71.66 OR 25.42 AVERAGE SERIES
CI 3.87 NORM PLAG 3.91 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.33 FE 9.11 MG 5.57

COLOR INDEX : 3.87
HASHIMOTO INDEX : 39.34

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	10.00:SR	110.00:Y	10.00:ZR	70.00:NB	10.00:BA	850.00:AU	0.00:LI	10.00:BE	-10.00:
B	40.00:SC	0.00:V	20.00:CR	0.00:MN	350.00:CO	0.00:NI	6.00:CU	3.00:ZN	37.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	-2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : QTZ. EYES OBSERVED. ROCK INTERPRETED TO BE METAMORPHOSED TUFF. WELL DEVELOPED CRENULATION OBSERVED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15806 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 — FIELD NUMBER : 86116PW006 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 431785.0 N : 5416350.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,WHITE MICA,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. — DATE : 26-MAY-86
ANALYZED BY : XRAL — DATE : 13-JUN-86
ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	69.70	71.95	67.61
AL2O3	15.70	16.21	17.95
FE2O3	3.64	1.88	1.33
FEO	0.00	1.69	1.33
CAO	0.22	0.23	0.23
MGO	1.47	1.52	2.13
NA2O	2.83	2.92	5.32
K2O	3.03	3.13	3.75
TIO2	0.32	0.33	0.23
P2O5	0.08	0.08	0.07
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.47	0.00	0.00
TOTAL	96.87	99.00	99.00

NORMS	
Q	37.03
C	8.64
OR	18.77
AB	26.61
AN	0.59
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.25
FS	1.98
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.99
IL	0.47
CR	0.75
HM	0.00
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	6.23
CPX	0.00
AB*	26.61

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.05 SIO2 71.95 SUBALKALINE
OL* 6.68 NE* 22.85 Q* 70.46 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 55.26 F 30.88 M 13.86 THOLEITIC
AL2O3 16.21 NORM PLAG 2.19 CALC-ALKALINE
AN 1.29 AB* 57.88 OR 40.83 K-RICH SERIES
CI 8.69 NORM PLAG 2.19 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 77.97 FE 12.80 MG 9.23

COLOR INDEX : 8.69
HASHIMOTO INDEX : 59.60

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	60.00:SR	110.00:Y	10.00:ZR	140.00:NB	10.00:BA	1060.00:AU	0.00:LI	-10.00:BE	-10.00:
B	40.00:SC	0.00:V	50.00:CR	0.00:MN	480.00:CO	0.00:NI	6.00:CU	12.00:ZN	100.00:
GE	10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : SAMPLE OF A CHLORITE-RICH BAND WITHIN A SCHIST.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15807 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 23677 FIELD NUMBER : 86116PW008 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 431552.0 N : 5416015.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,WHITE MICA,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. DATE : 26-MAY-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 13-JUN-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.10	75.94	71.50
AL2O3	12.60	12.74	14.14
FE2O3	2.27	1.80	1.28
FEO	0.00	0.45	0.35
CAO	2.96	2.99	3.02
MGO	0.70	0.71	0.99
NA2O	3.90	3.94	7.20
K2O	0.99	1.00	1.20
TIO2	0.28	0.28	0.20
P2O5	0.06	0.06	0.05
MNO	0.08	0.08	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.23	0.00	0.00
TOTAL	98.88	99.00	99.00

NORMS	
Q	39.42
C	0.00
OR	6.02
AB	35.99
AN	14.34
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.26
HE	0.02
EN	1.86
FS	0.14
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.91
IL	0.40
CR	0.75
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.00
CPX	0.28
AB*	35.99

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.94 SIO2 75.94 SUBALKALINE
OL* 1.94 NE* 27.90 Q* 70.16 SUBALKALINE
CPX 12.30 OL 0.00 OPX 87.70 SUBALKALINE
A 64.07 F 26.76 M 9.17 CALC-ALKALINE
AL2O3 12.74 NORM PLAG 28.50 THOLEITIC
AN 25.45 AB* 63.87 OR 10.68 AVERAGE SERIES
CI 4.60 NORM PLAG 28.50 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.06 FE 11.11 MG 5.83

COLOR INDEX : 4.60
HASHIMOTO INDEX : 19.77

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	200.00:Y	30.00:ZR	120.00:NB	10.00:BA	570.00:AU	0.00:LI	-10.00:BE	-10.00:
B	30.00:SC	0.00:V	30.00:CR	0.00:MN	560.00:CO	0.00:NI	5.00:CU	5.00:ZN	61.00:
GE	-10.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:CD	-0.20:SB	0.00:CS	0.00:
LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:
W	0.00:PB	2.00:BI	-0.50:TH	0.00:U	0.00:				

COMMENTS : PS310/85. GENTLE CRENULATION OBSERVED. ROCK CROSSCUT BY NUMEROUS QTZ. VEINS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 31-JAN-87
12:12:03

SAMPLE ID # AB15847 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116PW120 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428550.0 N : 5418950.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,FELDSPAR PORPHYRITIC,LITHIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. DATE : 26-JUN-86
ANALYZED BY : XRAL DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.00	54.23	50.67
AL2O3	17.50	18.61	20.49
FE2O3	10.20	2.36	1.66
FEO	0.00	7.63	5.97
CAO	5.40	5.74	5.75
MGO	4.47	4.75	6.62
NA2O	2.28	2.42	4.39
K2O	2.71	2.88	3.44
TIO2	0.72	0.77	0.54
P2O5	0.43	0.46	0.36
MNO	0.14	0.15	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.23	0.00	0.00
TOTAL	94.05	100.00	100.00

NORMS	
Q	5.55
C	2.37
OR	17.19
AB	21.96
AN	25.72
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	13.24
FS	9.43
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.49
IL	1.08
CR	0.00
HM	0.00
AP	0.97
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	22.67
CPX	0.00
AB*	21.96

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.31 SIO2 54.23 SUBALKALINE
OL* 33.88 NE* 26.25 Q* 39.87 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 26.77 F 49.24 M 23.98 THOLEITIC
AL2O3 18.61 NORM PLAG 53.95 CALC-ALKALINE
AN 39.65 AB* 33.85 OR 26.50 K-RICH SERIES
CI 26.23 NORM PLAG 53.95 BASALT

JENSEN CALC-ALKALINE BASALT
AL 57.90 FE 23.40 MG 18.70

COLOR INDEX : 26.23
HASHIMOTO INDEX : 48.32

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	50.00:RB	70.00:SR	350.00:Y	40.00:ZR	70.00:NB	10.00:BA	630.00:

COMMENTS : FRESH SURFACE IS DK. GREEN-PURPLE. WELL DEVELOPED FOLIATION. SPS117/80.

SAMPLE ID # AB15848

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PW121
LOT : 0 CONCESSION :
GRID COORDINATES : E : 428370.0 N : 5418360.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : METAMORPHIC ,FELSIC,FINE,WHITE MICA,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING.
ANALYZED BY : XRAL

DATE : 26-JUN-86
DATE : 25-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	72.50	74.56	71.10
AL203	14.30	14.71	16.53
FE203	5.25	1.74	1.25
FEO	0.00	3.29	2.63
CAO	0.23	0.24	0.24
MGO	1.19	1.22	1.74
NA20	2.32	2.39	4.41
K20	1.48	1.52	1.85
TI02	0.19	0.20	0.14
P205	0.06	0.06	0.05
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	2.62	0.00	0.00
TOTAL	97.24	100.00	100.00

NORMS	
Q	48.32
C	9.95
OR	9.27
AB	22.05
AN	0.79
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.48
FS	3.86
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.87
IL	0.28
CR	0.00
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	7.34
CPX	0.00
AB*	22.05

CLASSIFICATIONS AND INDICES

NA20+K20 3.91 SI02 74.56 SUBALKALINE
OL* 7.08 NE* 17.03 Q* 75.89 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 39.12 F 48.63 M 12.25 THOLEITIC
AL203 14.71 NORM PLAG 3.47 CALC-ALKALINE
AN 2.47 AB* 68.67 OR 28.86 K-RICH SERIES
CI 9.49 NORM PLAG 3.47 RHYOLITE

JENSEN THOLEIITIC RHYOLITE
AL 73.96 FE 18.26 MG 7.78

COLOR INDEX : 9.49
HASHIMOTO INDEX : 51.15

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB 50.00:SR 100.00:Y 20.00:ZR 130.00:NB 20.00:BA 1330.00:

COMMENTS : SPS142/90. ROCK INTERPRETED TO BE METAMORPHOSED EXTRUSIVE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000 PRINTED 31-JAN-87 12:13:25

SAMPLE ID # AB15849 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116PW122 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428200.0 N : 5418100.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. DATE : 26-JUN-86
ANALYZED BY : XRAL DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	59.70	63.83	58.89
AL203	15.80	16.89	18.37
FE203	5.47	2.01	1.40
FEO	0.00	3.45	2.67
CAO	3.28	3.51	3.47
MGO	2.28	2.44	3.35
NA20	4.47	4.78	8.55
K20	2.19	2.34	2.76
TI02	0.38	0.41	0.28
P205	0.08	0.09	0.07
MNO	0.24	0.26	0.20
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	4.47	0.00	0.00
TOTAL	93.53	100.00	100.00

NORMS	
Q	13.02
C	0.35
OR	13.80
AB	42.74
AN	16.78
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	6.70
FS	3.77
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.09
IL	0.56
CR	0.00
HM	0.00
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	10.48
CPX	0.00
AB*	42.74

CLASSIFICATIONS AND INDICES

NA20+K20 7.12 SI02 63.83 SUBALKALINE
OL* 11.86 NE* 38.72 Q* 49.42 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 48.05 F 35.51 M 16.45 THOLEITIC
AL203 16.89 NORM PLAG 28.19 CALC-ALKALINE
AN 22.88 AB* 58.30 OR 18.82 AVERAGE SERIES
CI 13.13 NORM PLAG 28.19 ANDESITE

JENSEN CALC-ALKALINE ANDESITE
AL 69.94 FE 17.30 MG 12.76

COLOR INDEX : 13.13
HASHIMOTO INDEX : 36.58

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 40.00:RB 50.00:SR 280.00:Y 10.00:ZR 90.00:NB 20.00:BA 1370.00:

COMMENTS : ROCK VERY FISSILE, IN PLACES RUSTY.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15850

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PW125
LOT : 0 CONCESSION :

GRID COORDINATES : E : 428130.0 N : 5418000.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING. DATE : 27-JUN-86
ANALYZED BY : XRAL DATE : 25-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	72.20	74.46	69.44
AL203	13.00	13.41	14.74
FE203	2.00	1.77	1.24
FEO	0.00	0.26	0.20
CAO	2.77	2.86	2.85
MGO	0.79	0.81	1.13
NA20	4.57	4.71	8.52
K20	1.31	1.35	1.61
TI02	0.22	0.23	0.16
P205	0.05	0.05	0.04
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	2.85	0.00	0.00
TOTAL	96.96	100.00	100.00

NORMS	
Q	32.82
C	0.00
OR	8.04
AB	42.60
AN	11.52
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	1.93
HE	0.00
EN	1.30
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.33
IL	0.32
CR	0.00
HM	1.03
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.30
CPX	1.93
AB*	42.60

CLASSIFICATIONS AND INDICES

NA20+K20 6.06 SI02 74.46 SUBALKALINE

OL* 1.27 NE* 33.32 Q* 65.42 SUBALKALINE

CPX 59.81 OL 0.00 OPX 40.19 ALKALINE

A 69.42 F 21.25 M 9.33 CALC-ALKALINE

AL203 13.41 NORM PLAG 21.28 THOLEITIC

AN 18.53 AB* 68.53 OR 12.94 AVERAGE SERIES

CI 4.90 NORM PLAG 21.28 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 84.01 FE 9.53 MG 6.46

COLOR INDEX : 4.90
HASHIMOTO INDEX : 22.25

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	30.00:SR	180.00:Y	-10.00:ZR	90.00:NB	10.00:BA	1300.00:

COMMENTS : SPS308/70. ROCK BANDED, BANDS MAY BE ELONGATED CLASTS OR COMPOSITIONAL LAYERS. MATRIX COMPOSED OF QTZ. CHLORITE, SERICITE, CALCITE. QTZ. GRAINS 1-3%, <3MM, FELDSPAR GRAINS 10-20%, 1-2MM. INTERPRETED TO BE CRYSTAL TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15904 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116SE016 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424490.0 N : 5420235.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 10-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	79.30	81.14	77.29
AL2O3	11.50	11.77	13.21
FE2O3	0.99	1.01	0.73
FEO	0.00	0.00	0.00
CAO	0.85	0.87	0.89
MGO	0.19	0.19	0.28
NA2O	2.52	2.58	4.76
K2O	2.15	2.20	2.68
TIO2	0.17	0.17	0.12
P2O5	0.04	0.04	0.03
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.77	0.00	0.00
TOTAL	97.73	100.00	100.00

NORMS	
Q	53.03
C	4.11
OR	13.38
AB	23.81
AN	4.16
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.55
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.03
CR	0.00
HM	0.73
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.11
AG	0.00
OL	0.00
OPX	0.55
CPX	0.00
AB*	23.81

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.78 SIO2 81.14 SUBALKALINE
OL* 0.53 NE* 18.46 Q* 81.01 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 81.21 F 15.49 M 3.30 CALC-ALKALINE
AL2O3 11.77 NORM PLAG 14.88 THOLEITIC
AN 10.07 AB* 57.57 OR 32.36 K-RICH SERIES
CI 1.31 NORM PLAG 14.88 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 92.04 FE 6.04 MG 1.92

COLOR INDEX : 1.31
HASHIMOTO INDEX : 40.98

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:RB 70.00:SR 80.00:Y 10.00:ZR 100.00:NB 10.00:BA 1010.00:

COMMENTS : MEAR MCIVOR CREEK BRIDGE. QUARTZ, 2-8MM, 15-20%, FELDSPAR, 2-8MM, 1-5%. VARIABLE CHLORITE MIXTURE IN WHITE TUFF.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:15:26

SAMPLE ID # AB15905

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116SE018
LOT : 0 CONCESSION :

GRID COORDINATES : E : 0.0 N : 5420470.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : NOT VISIBLE.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS.
ANALYZED BY : XRAL

DATE : 10-JUN-86
DATE : 16-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.70	53.74	49.20
AL203	17.00	17.67	19.07
FE203	9.53	2.27	1.56
FEO	0.00	6.87	5.26
CAO	6.62	6.88	6.75
MGO	5.53	5.75	7.84
NA2O	4.57	4.75	8.43
K2O	0.84	0.87	1.02
TIO2	0.68	0.71	0.49
P2O5	0.30	0.31	0.24
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.54	0.00	0.00
TOTAL	96.20	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	5.10
AB	42.16
AN	24.04
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	4.03
HE	2.12
EN	7.68
FS	4.05
FO	4.50
FA	2.37
WO	0.00
LN	0.00
MT	2.34
IL	0.97
CR	0.00
HM	0.00
AP	0.65
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	6.86
OPX	11.72
CPX	6.15
AB*	42.16

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.62 SIO2 53.74 SUBALKALINE

OL* 25.77 NE* 41.64 Q* 32.58 SUBALKALINE

CPX 24.87 OL 27.75 OPX 47.38 SUBALKALINE

A 27.72 F 43.94 M 28.34 THOLEITIC

AL203 17.67 NORM PLAG 36.32 CALC-ALKALINE

AN 33.72 AB* 59.12 OR 7.16 AVERAGE SERIES

CI 28.05 NORM PLAG 36.32 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 55.50 FE 21.68 MG 22.83

COLOR INDEX : 28.05
HASHIMOTO INDEX : 36.28

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 60.00:RB	40.00:SR	510.00:Y	10.00:ZR	30.00:NB	20.00:BA	260.00:

COMMENTS : STREAKY PALE GREEN WEATHERING FIAMME(?) BEARING TUFF. DK. CHLORITE STREAKS, 3MM X 25-30MM. SCHISTOSE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15909 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116SE037 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424140.0 N : 5420850.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,MASSIVE.
FINAL NAME :
ALTERATION : SPOTS ,EPIDOTIZATION ,MODERATE.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 10-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.80	51.35	47.96
AL2O3	18.00	18.94	20.85
FE2O3	12.80	2.45	1.72
FEO	0.00	9.91	7.74
CAO	5.58	5.87	5.88
MGO	4.25	4.47	6.22
NA2O	2.93	3.08	5.58
K2O	2.40	2.53	3.01
TIO2	0.83	0.87	0.61
P2O5	0.37	0.39	0.31
MNO	0.13	0.14	0.11
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.23	0.00	0.00
TOTAL	95.04	100.00	100.00

NORMS	
Q	0.00
C	1.53
OR	15.06
AB	27.91
AN	26.81
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	10.18
FS	10.42
FO	1.70
FA	1.75
WO	0.00
LN	0.00
MT	2.58
IL	1.23
CR	0.00
HM	0.00
AP	0.82
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	3.45
OPX	20.60
CPX	0.00
AB*	27.91

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.61 SIO2 51.35 ALKALINE
OL* 36.37 NE* 32.23 Q* 31.40 SUBALKALINE
CPX 0.00 OL 14.35 OPX 85.65 SUBALKALINE
A 25.26 F 54.59 M 20.14 THOLEITIC
AL2O3 18.94 NORM PLAG 48.99 CALC-ALKALINE
AN 38.42 AB* 40.00 OR 21.58 SODIC
CI 27.86 NORM PLAG 48.99 HAWAIITE

JENSEN THOLEIITIC ANDESITE
AL 55.96 FE 27.34 MG 16.70

COLOR INDEX : 27.86
HASHIMOTO INDEX : 43.87

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB	50.00:SR	590.00:Y	10.00:ZR	60.00:NB	20.00:BA	580.00:

COMMENTS : 1% MAGNETITE CRYSTALS. EPIDOTE SPOTS.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15910 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116SE065 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428090.0 N : 5418490.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 18-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	75.80	78.63	74.88	Q	47.32
AL203	11.90	12.34	13.86	C	1.06
FE203	0.81	0.84	0.60	OR	16.53
FEO	0.00	0.00	0.00	AB	19.34
CAO	2.71	2.81	2.87	AN	14.06
MGO	0.28	0.29	0.41	LC	0.00
NA20	2.02	2.10	3.87	NE	0.00
K20	2.62	2.72	3.31	KP	0.00
TI02	0.16	0.17	0.12	AC	0.00
P205	0.04	0.04	0.03	DI	0.00
MNO	0.06	0.06	0.05	HE	0.00
S	0.00	0.00	0.00	EN	0.82
NIO	0.00	0.00	0.00	FS	0.00
CR203	0.00	0.00	0.00	FO	0.00
C02	0.00	0.00	0.00	FA	0.00
H20+	0.00	0.00	0.00	WO	0.00
H20-	0.00	0.00	0.00	LN	0.00
LOI	3.23	0.00	0.00	MT	0.00
				IL	0.10
TOTAL	96.40	100.00	100.00	CR	0.00
				HM	0.60
				AP	0.09
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.07
				AG	0.00
				OL	0.00
				OPX	0.82
				CPX	0.00
				AB*	19.34

CLASSIFICATIONS AND INDICES

NA20+K20 4.81 SI02 78.63 SUBALKALINE
OL* 0.92 NE* 17.20 Q* 81.89 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 82.14 F 12.90 M 4.96 CALC-ALKALINE
AL203 12.34 NORM PLAG 42.10 THOLEITIC
AN 28.16 AB* 38.74 OR 33.10 K-RICH SERIES
CI 1.53 NORM PLAG 42.10 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 92.13 FE 5.13 MG 2.74

COLOR INDEX : 1.53
HASHIMOTO INDEX : 38.01

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	10.00:RB	60.00:SR	220.00:Y	-10.00:ZR	70.00:NB	10.00:BA	1160.00:

COMMENTS : WHITE QTZ. SERICITE TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB15911 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : NEAR SE061 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428757.0 N : 5417965.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 18-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	78.10	80.57	77.58
AL203	13.10	13.51	15.34
FE203	1.90	1.74	1.26
FEO	0.00	0.19	0.16
CAO	0.09	0.09	0.10
MGO	0.22	0.23	0.33
NA2O	1.31	1.35	2.52
K2O	1.98	2.04	2.51
TI02	0.19	0.20	0.14
P205	0.03	0.03	0.03
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	96.94	100.00	100.00

NORMS	
Q	62.05
C	10.20
OR	12.56
AB	12.61
AN	0.27
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.65
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.15
IL	0.28
CR	0.00
HM	1.17
AP	0.07
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.65
CPX	0.00
AB*	12.61

CLASSIFICATIONS AND INDICES

NA20+K20 3.39 SI02 80.57 SUBALKALINE
OL* 0.65 NE* 10.05 Q* 89.30 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 63.03 F 32.75 M 4.21 THOLEITIC
AL203 13.51 NORM PLAG 2.08 CALC-ALKALINE
AN 1.05 AB* 49.58 OR 49.37 K-RICH SERIES
CI 2.25 NORM PLAG 2.08 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 88.87 FE 9.25 MG 1.89

COLOR INDEX : 2.25
HASHIMOTO INDEX : 61.11

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB 60.00:SR 420.00:Y 20.00:ZR 90.00:NB -10.00:BA 620.00:

COMMENTS : WHITE QUARTZ SERICITE TUFF. RUSTY WEATHERING.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:18:07

SAMPLE ID # AB15912

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : NEAR116SE061
LOT : 0 CONCESSION :
GRID COORDINATES : E : 428770.0 N : 5417962.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : STRINGERS ,1-5%.
FORMATION :

SAMPLED BY : S. ENNS.
ANALYZED BY : XRAL

DATE : 18-JUN-86
DATE : 16-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.00	78.28	75.29
AL2O3	13.90	14.32	16.23
FE2O3	2.98	1.96	1.42
FEO	0.00	1.00	0.81
CAO	0.09	0.09	0.10
MGO	0.27	0.28	0.40
NA2O	1.53	1.58	2.94
K2O	1.94	2.00	2.45
TIO2	0.40	0.41	0.30
P2O5	0.07	0.07	0.06
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.62	0.00	0.00
TOTAL	97.09	100.00	100.00

NORMS	
Q	58.72
C	10.84
OR	12.27
AB	14.69
AN	0.01
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.80
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.57
IL	0.60
CR	0.00
HM	0.37
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.80
CPX	0.00
AB*	14.69

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.57 SIO2 78.28 SUBALKALINE

OL* 0.81 NE* 11.88 Q* 87.31 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 54.04 F 41.76 M 4.20 THOLEITIC

AL2O3 14.32 NORM PLAG 0.00 CALC-ALKALINE

AN 0.00 AB* 54.49 OR 45.51 K-RICH SERIES

CI 3.33 NORM PLAG 0.00 RHYOLITE

JENSEN THOLEIITIC RHYOLITE
AL 84.69 FE 13.23 MG 2.08

COLOR INDEX : 3.33
HASHIMOTO INDEX : 57.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR 20.00:RB 50.00:SR 440.00:Y 30.00:ZR 80.00:NB 10.00:BA 590.00:

COMMENTS : VERY LIMONITIC SCHISTOSE FELSIC TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
12:18:48

SAMPLE ID # AB15914

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : CHIP1L28220S
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430070.0 N : 5416845.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANIC,FELSIC,FINE.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : S. ENNS.
ANALYZED BY : XRAL

DATE : 19-JUN-86
DATE : 16-JUL-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	66.90	69.35	64.20
AL203	16.40	17.00	18.55
FE203	3.55	2.07	1.44
FEO	0.00	1.45	1.12
CAO	0.92	0.95	0.95
MGO	1.83	1.90	2.62
NA20	4.46	4.62	8.30
K20	1.91	1.98	2.34
TI02	0.50	0.52	0.36
P205	0.13	0.13	0.11
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	3.00	0.00	0.00
TOTAL	96.46	100.00	100.00

NORMS	
Q	28.08
C	6.37
OR	11.70
AB	41.49
AN	3.85
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.23
FS	0.11
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.17
IL	0.72
CR	0.00
HM	0.00
AP	0.28
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.34
CPX	0.00
AB*	41.49

CLASSIFICATIONS AND INDICES

NA20+K20 6.60 SI02 69.35 SUBALKALINE

OL* 5.35 NE* 33.23 Q* 61.42 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 55.91 F 28.03 M 16.06 CALC-ALKALINE

AL203 17.00 NORM PLAG 8.49 CALC-ALKALINE

AN 6.75 AB* 72.73 OR 20.52 AVERAGE SERIES

CI 8.23 NORM PLAG 8.49 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 76.95 FE 12.20 MG 10.86

COLOR INDEX : 8.23
HASHIMOTO INDEX : 41.01

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB 60.00:SR 180.00:Y 10.00:ZR 100.00:NB -10.00:BA 750.00:

COMMENTS : OVERLIES DEEP IP ANOMALY ON STRIKE WITH ANITA SHOWING.

SAMPLE ID # AB15920 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 92B13 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 429070.0 N : 5417985.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC,CRYSTAL.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 23-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.10	74.00	70.84
AL2O3	14.40	15.20	17.15
FE2O3	2.14	1.85	1.33
FEO	0.00	0.37	0.30
CAO	2.93	3.09	3.17
MGO	1.07	1.13	1.61
NA2O	0.70	0.74	1.37
K2O	3.03	3.20	3.91
TIO2	0.25	0.26	0.19
P2O5	0.07	0.07	0.06
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.93	0.00	0.00
TOTAL	94.73	100.00	100.00

NORMS	
Q	47.24
C	5.72
OR	19.55
AB	6.86
AN	15.36
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.22
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.53
IL	0.38
CR	0.00
HM	0.98
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.22
CPX	0.00
AB*	6.86

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.94 SIO2 74.00 SUBALKALINE

OL* 4.22 NE* 7.18 Q* 88.60 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 55.46 F 28.63 M 15.91 CALC-ALKALINE

AL2O3 15.20 NORM PLAG 69.14 THOLEITIC

AN 36.78 AB* 16.41 OR 46.81 K-RICH SERIES

CI 5.11 NORM PLAG 69.14 HIGH ALUMINA BASALT

JENSEN CALC-ALKALINE RHYOLITE
AL 83.06 FE 9.13 MG 7.80

COLOR INDEX : 5.11
HASHIMOTO INDEX : 53.04

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	70.00:SR	110.00:Y	20.00:ZR	120.00:NB	10.00:BA	1100.00:

COMMENTS : LOCATED ALONG ABANDONED R.R. ABOUT L14E, 2+75N. LARGE PATCHES OF WEAK, PALE GREEN CHLORITE HERE AND THERE.

SAMPLE ID # AB15921 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116SE069 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424150.0 N : 5419870.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 24-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	75.80	76.39	70.42	Q	31.02
AL2O3	13.30	13.40	14.56	C	1.35
FE2O3	1.60	1.61	1.12	OR	7.36
FEO	0.00	0.00	0.00	AB	56.37
CAO	0.29	0.29	0.29	AN	1.18
MGO	0.50	0.50	0.69	LC	0.00
NA2O	6.26	6.31	11.27	NE	0.00
K2O	1.24	1.25	1.47	KP	0.00
TIO2	0.16	0.16	0.11	AC	0.00
P2O5	0.04	0.04	0.03	DI	0.00
MNO	0.04	0.04	0.03	HE	0.00
S	0.00	0.00	0.00	EN	1.38
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	0.77	0.00	0.00	MT	0.00
				IL	0.06
TOTAL	99.23	100.00	100.00	CR	0.00
				HM	1.12
				AP	0.08
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.08
				AG	0.00
				OL	0.00
				OPX	1.38
				CPX	0.00
				AB*	56.37

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.56 SIO2 76.39 SUBALKALINE

OL* 1.17 NE* 38.10 Q* 60.73 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 79.45 F 15.25 M 5.30 CALC-ALKALINE

AL2O3 13.40 NORM PLAG 2.05 CALC-ALKALINE

AN 1.82 AB* 86.85 OR 11.33 AVERAGE SERIES

CI 2.57 NORM PLAG 2.05 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 88.17 FE 7.64 MG 4.19

COLOR INDEX : 2.57
HASHIMOTO INDEX : 20.99

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 20.00:RB	30.00:SR	170.00:Y	-10.00:ZR	80.00:NB	20.00:BA	1010.00:

COMMENTS : MEDIUM GRAINED QTZ-FELDSPAR CRYSTAL TUFF. MASSIVE, WHITE, SERICITIC. TAKEN AT NORTH END APPROX. 10-15 METRES FROM CTC.

SAMPLE ID # AB15923 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116SE070 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 423442.0 N : 5418753.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,CHERT ,NO COMMENT,MASSIVE.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 24-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	74.10	74.81	68.86	Q	25.64
AL2O3	14.50	14.64	15.88	C	1.24
FE2O3	0.97	0.98	0.68	OR	21.42
FEO	0.00	0.00	0.00	AB	49.99
CAO	0.22	0.22	0.22	AN	0.90
MGO	0.01	0.01	0.01	LC	0.00
NA2O	5.55	5.60	10.00	NE	0.00
K2O	3.61	3.64	4.28	KP	0.00
TIO2	0.04	0.04	0.03	AC	0.00
P2O5	0.03	0.03	0.02	DI	0.00
MNO	0.02	0.02	0.02	HE	0.00
S	0.00	0.00	0.00	EN	0.03
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	0.70	0.00	0.00	MT	0.00
				IL	0.03
TOTAL	99.05	100.00	100.00	CR	0.00
				HM	0.68
				AP	0.06
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.01
				AG	0.00
				OL	0.00
				OPX	0.03
				CPX	0.00
				AB*	49.99

CLASSIFICATIONS AND INDICES

NA2O+K2O	9.25	SIO2	74.81			SUBALKALINE
OL*	0.03	NE*	39.65	Q*	60.33	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	91.21	F	8.69	M	0.10	CALC-ALKALINE
AL2O3	14.64	NORM PLAG	1.76			CALC-ALKALINE
AN	1.24	AB*	69.13	OR	29.62	K-RICH SERIES
CI	0.74	NORM PLAG	1.76			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 95.57 FE 4.34 MG 0.08

COLOR INDEX : 0.74
HASHIMOTO INDEX : 38.55

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	90.00:SR	240.00:Y	30.00:ZR	100.00:NB	120.00:BA	1610.00:

COMMENTS : MASSIVE CHERT OUTCROP WEST OF CHIP 4, BESIDE B-11 RD.

SAMPLE ID # AB15924 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24038 FIELD NUMBER : 86116SE027 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 423840.0 N : 5420210.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. DATE : 24-JUN-86
ANALYZED BY : XRAL DATE : 16-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.90	79.44	76.74
AL2O3	12.70	13.12	14.94
FE2O3	2.21	1.73	1.25
FEO	0.00	0.50	0.41
CAO	0.06	0.06	0.06
MGO	1.24	1.28	1.84
NA2O	0.14	0.14	0.27
K2O	3.36	3.47	4.28
TIO2	0.17	0.18	0.13
P2O5	0.03	0.03	0.03
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.47	0.00	0.00
TOTAL	96.81	100.00	100.00

NORMS	
Q	61.20
C	10.34
OR	21.41
AB	1.35
AN	0.11
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.69
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.96
IL	0.26
CR	0.00
HM	0.61
AP	0.07
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.69
CPX	0.00
AB*	1.35

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.62 SIO2 79.44 SUBALKALINE

OL* 4.18 NE* 1.23 Q* 94.60 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 52.02 F 29.55 M 18.43 CALC-ALKALINE

AL2O3 13.12 NORM PLAG 7.46 CALC-ALKALINE

AN 0.48 AB* 5.92 OR 93.60 K-RICH SERIES

CI 5.52 NORM PLAG 7.46 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.26 FE 9.83 MG 9.91

COLOR INDEX : 5.52
HASHIMOTO INDEX : 95.83

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	20.00:RB	100.00:SR	10.00:Y	-10.00:ZR	70.00:NB	20.00:BA	600.00:

COMMENTS : FAULTED IN MYRA CRYSTAL TUFF. KINKED AND LOCALLY SHEARED BY TWO FAULTS.

LAB REPORT # 28600 FIELD NUMBER : AB159261 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 434010.0 N : 5414660.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,COARSE,QUARTZ PLUS FELDSPAR PORPHRYITIC,MASSIVE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS DATE : 05-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 09-JUL-86 TECHNIQUE : XRF + PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.40	75.50	71.61
AL2O3	12.90	13.27	14.83
FE2O3	1.56	1.60	1.15
FEO	0.00	0.00	0.00
CAO	1.28	1.32	1.34
MGO	0.92	0.95	1.34
NA2O	1.49	1.53	2.82
K2O	5.36	5.51	6.68
TIO2	0.20	0.21	0.15
P2O5	0.05	0.05	0.04
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	97.22	100.00	100.00

NORMS	
Q	39.24
C	2.80
OR	33.39
AB	14.09
AN	6.35
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.68
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.10
CR	0.00
HM	1.15
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	2.68
CPX	0.00
AB*	14.09

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.05 SIO2 75.50 SUBALKALINE

OL* 3.58 NE* 15.09 Q* 81.32 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 74.67 F 15.30 M 10.03 CALC-ALKALINE

AL2O3 13.27 NORM PLAG 31.05 THOLEITIC

AN 11.79 AB* 26.18 OR 62.03 K-RICH SERIES

CI 3.92 NORM PLAG 31.05 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 84.70 FE 7.66 MG 7.64

COLOR INDEX : 3.92
HASHIMOTO INDEX : 69.39

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	60.00:SR	100.00:Y	-10.00:ZR	100.00:NB	20.00:BA	1140.00:AU	-10.00:LI	-10.00:
BE	-10.00:B	10.00:SC	3.10:V	20.00:MN	440.00:CO	3.00:NI	4.00:CU	-0.50:ZN	35.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	0.90:
LA	13.00:CE	35.00:ND	-5.00:SM	1.60:EU	-0.20:YB	1.60:LU	0.32:HF	2.00:TA	-1.00:
W	-3.00:PB	4.00:BI	-0.50:TH	4.40:U	1.90:				

COMMENTS : NEUTRON ACTIVATION ANALYTICAL TECHNIQUE ALSO USED. ABERMIN FOOTWALL RHYOLITE DOME.

SAMPLE ID # AB15928 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158 — FIELD NUMBER : 86116SE084 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 434230.0 N : 5414540.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS.
FINAL NAME :
ALTERATION : PERVASIVE ,SILICIFICATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : S. ENNS — DATE : 06-AUG-86
ANALYZED BY : XRAL — DATE : 12-SEP-86 — ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	79.70	82.43	79.85
AL2O3	11.30	11.69	13.34
FE2O3	1.20	1.24	0.90
FEO	0.00	0.00	0.00
CAO	0.02	0.02	0.02
MGO	0.68	0.70	1.02
NA2O	0.15	0.16	0.29
K2O	3.47	3.59	4.44
TIO2	0.15	0.16	0.11
P2O5	0.02	0.02	0.02
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	96.69	100.00	100.00

NORMS	
Q	64.66
C	8.63
OR	22.20
AB	1.46
AN	0.02
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.03
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	0.90
AP	0.05
PO	0.00
NS	0.00
KS	0.00
RU	0.11
AG	0.00
OL	0.00
OPX	2.03
CPX	0.00
AB*	1.46

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.74 SIO2 82.43 SUBALKALINE

OL* 2.24 NE* 1.28 Q* 96.48 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 67.29 F 20.07 M 12.64 CALC-ALKALINE

AL2O3 11.69 NORM PLAG 0.00 THOLEITIC

AN 0.00 AB* 6.16 OR 93.84 K-RICH SERIES

CI 2.94 NORM PLAG 0.00 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.78 FE 6.62 MG 6.60

COLOR INDEX : 2.94
HASHIMOTO INDEX : 96.06

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	20.00:LI	10.00:BE	-10.00:B	10.00:SC	2.90:V	-10.00:CR	2.00:MN	48.00:CO	-1.00:
NI	2.00:CU	32.00:ZN	39.00:GE	-10.00:AS	3.00:SE	-3.00:BR	1.00:RB	90.00:SR	40.00:
Y	10.00:ZR	90.00:NB	10.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.40:CS	0.90:BA	2950.00:
LA	18.90:CE	33.00:ND	10.00:SM	2.30:EU	0.30:YB	2.30:LU	0.40:HF	4.00:TA	1.00:
W	-3.00:PB	2.00:BI	-0.50:TH	3.80:U	2.00:				

COMMENTS : $PS290/77. SAMPLE TAKEN NEAR ABERMIN DDH86-79+79. BEDRX V. LIMONITE STAINED STRONG SCHISTOS. THIN FERRICRETE VENEER ON BEDRX. KINK BANDS.N END OF EXPOS. SHOWS LITHOL CHANGE TO BANDS OF CHLOR TUFFS START OF MIXED GREEN VOLCANICLASTICS.

SAMPLE ID # AB15929 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29158 FIELD NUMBER : 86116SE85 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 433880.0 N : 5414780.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HETEROGENEOUS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : S. ENNS DATE : 06-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 12-SEP-86 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	72.10	75.62	71.93
AL203	12.60	13.22	14.82
FE203	2.66	1.79	1.28
FEO	0.00	0.90	0.71
CAO	0.03	0.03	0.03
MGO	4.59	4.81	6.82
NA2O	0.19	0.20	0.37
K2O	3.01	3.16	3.84
TI02	0.21	0.22	0.16
P205	0.05	0.05	0.04
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.62	0.00	0.00
TOTAL	95.34	100.00	100.00

NORMS	
Q	52.57
C	10.69
OR	19.18
AB	1.84
AN	0.10
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	13.65
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.67
IL	0.32
CR	0.00
HM	0.17
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	13.65
CPX	0.00
AB*	1.84

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.36 SI02 75.62 SUBALKALINE
OL* 15.04 NE* 1.62 Q* 83.34 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 31.42 F 23.50 M 45.07 CALC-ALKALINE
AL203 13.22 NORM PLAG 0.00 CALC-ALKALINE
AN 0.00 AB* 8.74 OR 91.26 K-RICH SERIES
CI 15.80 NORM PLAG 0.00 RHYOLITE

JENSEN CALC-ALKALINE ANDESITE
AL 62.27 FE 9.05 MG 28.68

COLOR INDEX : 15.80
HASHIMOTO INDEX : 97.19

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	10.00:LI	-10.00:BE	-10.00:B	-10.00:SC	4.60:V	20.00:CR	-2.00:MN	250.00:CO	1.00:
NI	4.00:CU	20.00:ZN	140.00:GE	-10.00:AS	4.00:SE	-3.00:BR	-1.00:RB	70.00:SR	-10.00:
Y	20.00:ZR	100.00:NB	10.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	0.90:BA	2360.00:
LA	20.70:CE	33.00:ND	13.00:SM	2.70:EU	0.40:YB	2.30:LU	0.41:HF	4.00:TA	-1.00:
W	-3.00:PB	4.00:BI	-0.50:TH	4.60:U	2.40:				

COMMENTS : NEAR ABERMIN DDH 85-70. GREY GREENISH SERICITIC SCHIST WITH 10% PALE CHLORITIC BANDS (BEDS?) PYRITIC WEATHERED TO LIMONITE . PART OF MIXED GREENISH VOLCANICLASTIC SEQUENCE?

SAMPLE ID # AB15951 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116PM347 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 425600.0 N : 5420220.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 26-JUN-86
ANALYZED BY : XRAL DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.70	50.92	47.61
AL203	20.40	21.33	23.51
FE203	10.20	2.51	1.77
FEO	0.00	7.34	5.74
CAO	8.09	8.46	8.47
MGO	3.53	3.69	5.14
NA2O	2.47	2.58	4.68
K2O	1.57	1.64	1.96
TIO2	0.90	0.94	0.66
P2O5	0.36	0.38	0.30
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.39	0.00	0.00
TOTAL	95.64	100.00	100.00

NORMS	
Q	2.23
C	0.91
OR	9.80
AB	23.41
AN	39.88
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	10.29
FS	8.72
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.65
IL	1.32
CR	0.00
HM	0.00
AP	0.80
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	19.00
CPX	0.00
AB*	23.41

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.22 SIO2 50.92 SUBALKALINE
OL* 31.93 NE* 31.46 Q* 36.61 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 24.12 F 54.80 M 21.08 THOLEITIC
AL203 21.33 NORM PLAG 63.02 CALC-ALKALINE
AN 54.57 AB* 32.02 OR 13.41 AVERAGE SERIES
CI 22.98 NORM PLAG 63.02 BASALT

JENSEN CALC-ALKALINE ANDESITE
AL 63.56 FE 22.53 MG 13.91

COLOR INDEX : 22.98
HASHIMOTO INDEX : 32.57

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	50.00:SR	920.00:Y	20.00:ZR	50.00:NB	10.00:BA	470.00:

COMMENTS : ANDESITIC TO DACITIC TUFF WITH CHLORITE PLATE LAPILLI (ALIGNED BEARING 124), 0.5-2.0CM IN LENGTH, <1-2MM IN WIDTH, 7-12%, AND ANHEDRAL PLAG. GRAINS (3-8%, 1MM), MINOR CARB. FILLED FRACTURES, AND <1% EPIDOTE KNOTS IN OUTCROP.

SAMPLE ID # AB15954 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116PM363 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 423505.0 N : 5420135.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,BLOCK ,HETEROGENEOUS ,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 27-JUN-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.00	53.97	49.13
AL203	16.70	17.67	18.96
FE203	7.70	2.47	1.69
FEO	0.00	5.11	3.89
CAO	7.63	8.07	7.88
MGO	5.08	5.38	7.29
NA2O	5.09	5.39	9.51
K2O	0.58	0.61	0.71
TIO2	0.83	0.88	0.60
P2O5	0.26	0.28	0.21
MNO	0.16	0.17	0.13
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.23	0.00	0.00
TOTAL	94.49	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	3.57
AB	47.53
AN	21.86
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	9.31
HE	3.29
EN	0.20
FS	0.07
FO	7.30
FA	2.58
WO	0.00
LN	0.00
MT	2.53
IL	1.20
CR	0.00
HM	0.00
AP	0.57
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	9.88
OPX	0.27
CPX	12.60
AB*	47.53

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.00 SIO2 53.97 SUBALKALINE

OL* 17.48 NE* 49.44 Q* 33.08 ALKALINE

CPX 55.39 OL 43.43 OPX 1.18 SUBALKALINE

A 32.07 F 39.19 M 28.74 THOLEITIC

AL203 17.67 NORM PLAG 31.50 CALC-ALKALINE

AN 29.96 AB* 65.15 OR 4.89 K-POOR SERIES

CI 26.48 NORM PLAG 31.50 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 58.22 FE 19.39 MG 22.39

COLOR INDEX : 26.48
HASHIMOTO INDEX : 30.79

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	70.00:RB	10.00:SR	310.00:Y	20.00:ZR	30.00:NB	20.00:BA	120.00:

COMMENTS : SAMPLE OF MATRIX FROM ANDESITIC PYROCLASTIC ROCK FLOW WITH 5% TOTAL BASALTIC AND DACITIC BLOCKS. MATRIX HAS 10%, 1MM, ANHEDRAL PLAGIOCLASE GRAINS AND CHLORITE PLATES OF UP TO 10%, AND 5MM IN DIAMETER.

SAMPLE ID # AB15955 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28600 FIELD NUMBER : 86116PM364 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428375.0 N : 5417950.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 02-JUL-86
ANALYZED BY : XRAL DATE : 09-JUL-86
ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	74.20	76.57	72.07
AL203	13.20	13.62	15.11
FE203	2.33	1.79	1.26
FEO	0.00	0.56	0.44
CAO	0.24	0.25	0.25
MGO	1.15	1.19	1.66
NA20	3.27	3.37	6.16
K20	2.25	2.32	2.79
TI02	0.23	0.24	0.17
P205	0.05	0.05	0.04
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.91	100.00	100.00

NORMS	
Q	43.20
C	5.80
OR	13.96
AB	30.79
AN	0.91
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.33
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.94
IL	0.34
CR	0.00
HM	0.64
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.33
CPX	0.00
AB*	30.79

CLASSIFICATIONS AND INDICES

NA20+K20	5.70	SI02	76.57	SUBALKALINE
OL*	3.23	NE*	23.89	Q*	72.88	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	62.97	F	23.92	M	13.12	CALC-ALKALINE
AL203	13.62	NORM PLAG	2.86	CALC-ALKALINE
AN	1.98	AB*	67.44	OR	30.57	K-RICH SERIES
CI	5.24	NORM PLAG	2.86	RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.86 FE 10.23 MG 8.91

COLOR INDEX : 5.24
HASHIMOTO INDEX : 49.20

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	10.00:RB	60.00:SR	120.00:Y	20.00:ZR	110.00:NB	-10.00:BA	1000.00:AU	-10.00:LI	-10.00:
BE	-10.00:B	10.00:SC	4.10:V	30.00:MN	380.00:CO	3.00:NI	3.00:CU	3.50:ZN	48.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	0.80:
LA	10.50:CE	28.00:ND	5.00:SM	1.20:EU	-0.20:YB	1.30:LU	0.23:HF	2.00:TA	-1.00:
W	-3.00:PB	4.00:BI	-0.50:TH	2.90:U	1.90:				

COMMENTS : PS136/86SW. SERICITE SCHIST AFTER RHYODACITIC TUFF WITH 10-15%, 1MM ANHEDRAL PLAGIO. AND 3-7%, 2-7MM ANGULAR-AUGEN QTZ. EYES AS WELL AS MINOR RUST AND S FOLDS.

SAMPLE ID # AB15956 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116PM366 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 428692.0 N : 5418097.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 02-JUL-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 25-JUL-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	55.90	59.59	55.87
AL2O3	19.70	21.00	23.21
FE2O3	9.88	2.56	1.80
FEO	0.00	7.18	5.63
CAO	0.34	0.36	0.36
MGO	3.21	3.42	4.78
NA2O	2.92	3.11	5.66
K2O	1.35	1.44	1.72
TIO2	0.90	0.96	0.68
P2O5	0.18	0.19	0.15
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.85	0.00	0.00
TOTAL	93.80	100.00	100.00

NORMS	
Q	24.53
C	15.61
OR	8.62
AB	28.29
AN	0.55
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	9.56
FS	8.38
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.71
IL	1.35
CR	0.00
HM	0.00
AP	0.41
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	17.94
CPX	0.00
AB*	28.29

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.55 SIO2 59.59 SUBALKALINE

OL* 19.02 NE* 23.98 Q* 57.00 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 26.08 F 54.31 M 19.61 THOLEITIC

AL2O3 21.00 NORM PLAG 1.90 CALC-ALKALINE

AN 1.47 AB* 75.53 OR 23.00 AVERAGE SERIES

CI 22.00 NORM PLAG 1.90 DACITE

JENSEN CALC-ALKALINE ANDESITE
AL 64.04 FE 22.77 MG 13.19

COLOR INDEX : 22.00
HASHIMOTO INDEX : 58.31

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	50.00:RB	40.00:SR	140.00:Y	30.00:ZR	80.00:NB	10.00:BA	400.00:

COMMENTS : PS124/? CHLORITE SCHIST.

SAMPLE ID # AB15957 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116PM374 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 429200.0 N : 5418530.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 03-JUL-86
ANALYZED BY : XRAL DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.50	49.95	47.06
AL2O3	20.20	21.24	23.59
FE2O3	11.00	2.47	1.75
FEO	0.00	8.18	6.45
CAO	7.67	8.07	8.14
MGO	4.00	4.21	5.91
NA2O	1.19	1.25	2.29
K2O	2.82	2.97	3.57
TIO2	0.85	0.89	0.63
P2O5	0.51	0.54	0.43
MNO	0.22	0.23	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.85	0.00	0.00
TOTAL	95.09	100.00	100.00

NORMS	
Q	3.61
C	2.88
OR	17.84
AB	11.43
AN	37.14
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	11.81
FS	10.25
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.63
IL	1.27
CR	0.00
HM	0.00
AP	1.14
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	22.06
CPX	0.00
AB*	11.43

CLASSIFICATIONS AND INDICES

NA2O+K2O	4.22	SIO2	49.95	SUBALKALINE		
OL*	44.60	NE*	18.48	Q*	36.92	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	22.39	F	55.27	M	22.34	THOLEITIC
AL2O3	21.24	NORM PLAG	76.47	CALC-ALKALINE		
AN	55.93	AB*	17.21	OR	26.87	K-RICH SERIES
CI	25.96	NORM PLAG	76.47	BASALT		

JENSEN CALC-ALKALINE ANDESITE
AL 61.25 FE 23.42 MG 15.33

COLOR INDEX : 25.96
HASHIMOTO INDEX : 43.49

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	100.00:SR	690.00:Y	30.00:ZR	70.00:NB	20.00:BA	820.00:

COMMENTS : CHLORITIZED MAFIC VOLCANIC, PROBABLY A FLOW.

SAMPLE ID # AB15958 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24105 FIELD NUMBER : 86116PM375 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 429420.0 N : 5418500.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,BLOCK ,HETEROGENEOUS ,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 03-JUL-86
ANALYZED BY : XRAL DATE : 25-JUL-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.20	50.46	46.61
AL203	20.90	21.88	23.82
FE203	9.86	2.36	1.64
FEO	0.00	7.17	5.54
CAO	7.57	7.93	7.84
MGO	3.07	3.21	4.42
NA2O	3.87	4.05	7.26
K2O	1.52	1.59	1.88
TIO2	0.75	0.79	0.55
P2O5	0.39	0.41	0.32
MNO	0.15	0.16	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.08	0.00	0.00
TOTAL	95.52	100.00	100.00

NORMS	
Q	0.00
C	0.07
OR	9.39
AB	36.28
AN	36.55
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.47
FS	0.46
FO	6.29
FA	6.10
WO	0.00
LN	0.00
MT	2.46
IL	1.09
CR	0.00
HM	0.00
AP	0.85
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	12.39
OPX	0.92
CPX	0.00
AB*	36.28

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.64 SIO2 50.46 ALKALINE

OL* 26.38 NE* 43.89 Q* 29.73 ALKALINE

CPX 0.00 OL 93.06 OPX 6.94 SUBALKALINE

A 31.10 F 51.19 M 17.71 THOLEITIC

AL203 21.88 NORM PLAG 50.19 CALC-ALKALINE

AN 44.46 AB* 44.12 OR 11.42 SODIC

CI 16.86 NORM PLAG 50.19 HAWAIITE

JENSEN CALC-ALKALINE ANDESITE
AL 66.01 FE 21.73 MG 12.26

COLOR INDEX : 16.86
HASHIMOTO INDEX : 28.63

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 10.00:	RB 30.00:	SR 630.00:	Y 20.00:	ZR 60.00:	NB 10.00:	BA 440.00:

COMMENTS : MATRIX OF ANDESITIC PYROCLASTIC FLOW WITH FELSIC BLOCKS. MATRIX WITH CHLORITE PLATES AND PLAGIOCLASE (<1%, 1-2MM).

SAMPLE ID # AB15959

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 | FIELD NUMBER : 86116PM380 | PROJECT # 1116
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092C16 | | PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 | GRID COORDINATES : E : 424240.0 N : 5420170.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,BLOCK ,FELDSPAR PORPHYRITIC,HETEROGENEOUS ,MAFIC PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. | DATE : 07-JUL-86 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 26-AUG-86 | TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	50.40	52.84	48.26
AL2O3	16.40	17.19	18.51
FE2O3	8.94	2.30	1.58
FEO	0.00	6.37	4.86
CAO	6.54	6.86	6.71
MGO	7.22	7.57	10.30
NA2O	3.70	3.88	6.87
K2O	1.57	1.65	1.92
TIO2	0.69	0.72	0.50
P2O5	0.45	0.47	0.36
MNO	0.14	0.15	0.11
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.39	0.00	0.00
TOTAL	95.38	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	9.60
AB	34.34
AN	24.30
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	3.65
HE	1.31
EN	9.77
FS	3.50
FO	6.76
FA	2.42
WO	0.00
LN	0.00
MT	2.37
IL	0.99
CR	0.01
HM	0.00
AP	0.97
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	9.18
OPX	13.27
CPX	4.96
AB*	34.34

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.53 SIO2 52.84 SUBALKALINE

OL* 33.68 NE* 36.29 Q* 30.03 SUBALKALINE

CPX 18.10 OL 33.48 OPX 48.42 SUBALKALINE

A 25.66 F 39.17 M 35.16 THOLEITIC

AL2O3 17.19 NORM PLAG 41.44 CALC-ALKALINE

AN 35.61 AB* 50.32 OR 14.07 AVERAGE SERIES

CI 30.77 NORM PLAG 41.44 BASALT

JENSEN CALC-ALKALINE BASALT
AL 51.61 FE 19.66 MG 28.73

COLOR INDEX : 30.77
HASHIMOTO INDEX : 46.19

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	540.00:Y	10.00:ZR	90.00:NB	30.00:BA	770.00:				

COMMENTS : PS159/66NE. CHLORITIC SCHISTOSE ROCK AFTER INT. TUFF WITH 15-20% PLAGIOCLASE GRAINS (1-3MM) AND 3% FELSIC BLOCKS AS WELL AS 3% MAFIC PHYRIC.

SAMPLE ID # AB15960 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877 FIELD NUMBER : 86116PM382 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092C16 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 424245.0 N : 5420215.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION :
MINERALIZATION : STRINGERS ,1-5%,PYRITE PLUS CHALCOPYRITE.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 07-JUL-86
ANALYZED BY : XRAL DATE : 26-AUG-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.60	52.30	48.09
AL203	14.30	15.39	16.68
FE203	8.68	2.26	1.56
FEO	0.00	6.37	4.90
CAO	8.13	8.75	8.62
MGO	8.53	9.18	12.58
NA2O	2.14	2.30	4.11
K2O	1.95	2.10	2.46
TIO2	0.60	0.65	0.45
P2O5	0.47	0.51	0.39
MNO	0.16	0.17	0.13
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.08	0.00	0.00
TOTAL	92.92	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	12.32
AB	20.53
AN	25.27
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	8.94
HE	2.70
EN	17.58
FS	5.31
FO	2.33
FA	0.70
WO	0.00
LN	0.00
MT	2.35
IL	0.89
CR	0.02
HM	0.00
AP	1.05
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	3.04
OPX	22.89
CPX	11.63
AB*	20.53

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.40 SIO2 52.30 SUBALKALINE

OL* 43.49 NE* 26.51 Q* 29.99 SUBALKALINE

CPX 30.97 OL 8.09 OPX 60.94 SUBALKALINE

A 20.02 F 38.23 M 41.75 THOLEITIC

AL203 15.39 NORM PLAG 55.18 THOLEITIC

AN 43.48 AB* 35.32 OR 21.20 AVERAGE SERIES

CI 40.80 NORM PLAG 55.18 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 45.94 FE 19.40 MG 34.65

COLOR INDEX : 40.80
HASHIMOTO INDEX : 50.51

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

AU	2.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	73.00:ZN	60.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	2.00:BI	0.00:TH	0.00:U	0.00:RB	60.00:
SR	710.00:Y	20.00:ZR	60.00:NB	20.00:BA	1130.00:				

COMMENTS : PYRITE BANDS (1-2%) AND <1% DISSEMINATED CPY IN BANDS OF FELDSPAR-PHYRIC ANDESITIC AND DACITIC TUFFS. P0141/58NE.

SAMPLE ID # AB15961

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM396
LOT : 0 CONCESSION :

GRID COORDINATES : E : 424340.0 N : 5420675.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 09-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	45.80	52.30	49.65
AL2O3	15.70	17.93	20.06
FE2O3	11.80	2.51	1.79
FEO	0.00	9.86	7.83
CAO	6.03	6.89	7.00
MGO	4.06	4.64	6.56
NA2O	0.89	1.02	1.87
K2O	3.02	3.45	4.18
TIO2	0.70	0.80	0.57
P2O5	0.34	0.39	0.31
MNO	0.18	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	10.23	0.00	0.00
TOTAL	87.57	100.00	100.00

NORMS	
Q	5.44
C	1.04
OR	20.90
AB	9.35
AN	32.41
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	13.12
FS	13.05
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.69
IL	1.14
CR	0.01
HM	0.00
AP	0.83
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	26.17
CPX	0.00
AB*	9.35

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.47 SIO2 52.30 SUBALKALINE

OL* 47.91 NE* 13.70 Q* 38.39 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 21.04 F 57.12 M 21.84 THOLEITIC

AL2O3 17.93 NORM PLAG 77.61 THOLEITIC

AN 51.72 AB* 14.92 OR 33.36 K-RICH SERIES

CI 30.00 NORM PLAG 77.61 BASALT

JENSEN THOLEIITIC ANDESITE
AL 54.24 FE 28.02 MG 17.74

COLOR INDEX : 30.00
HASHIMOTO INDEX : 50.57

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	1.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	50.00:ZN	160.00:GE	0.00:AS	20.00:SE	0.00:BR	0.00:MO	0.00:AG	-0.50:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	80.00:BI	0.00:TH	0.00:U	0.00:RB	70.00:
SR	100.00:Y	20.00:ZR	80.00:NB	10.00:BA	890.00:				

COMMENTS : PYRITIC HORIZON AS AT ANDERSON CREEK. PYRITE AVERAGES 4% (RANGE 3-8%) IN BANDS OF CHLORITE-SERICITE AND SERICITE SCHISTS. KINKED AND RUSTY.

SAMPLE ID # AB15962

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM409
LOT : 0 CONCESSION :
GRID COORDINATES : E : 424365.0 N : 5419825.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,QUARTZ PORPHYRITIC,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY.
DATE : 14-JUL-86

ANALYZED BY : XRAL
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.20	75.67	72.60
AL2O3	11.60	12.33	13.94
FE2O3	1.49	1.58	1.14
FEO	0.00	0.00	0.00
CAO	5.08	5.40	5.55
MGO	0.40	0.43	0.61
NA2O	0.96	1.02	1.90
K2O	3.14	3.34	4.09
TIO2	0.16	0.17	0.12
P2O5	0.05	0.05	0.04
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.31	0.00	0.00
TOTAL	94.09	100.00	100.00

NORMS	
Q	44.57
C	0.00
OR	20.44
AB	9.49
AN	19.89
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.43
HE	0.00
EN	0.00
FS	0.00
FO	0.00
FA	0.00
WO	1.79
LN	0.00
MT	0.00
IL	0.00
CR	0.01
HM	1.14
AP	0.12
PO	0.00
NS	0.00
KS	0.00
RU	0.13
AG	0.00
OL	0.00
OPX	0.00
CPX	2.43
AB*	9.49

CLASSIFICATIONS AND INDICES

NA2O+K2O	4.36	SIO2	75.67	SUBALKALINE		
OL*	0.00	NE*	10.53	Q*	89.47	SUBALKALINE
CPX	100.00	OL	0.00	OPX	0.00	ALKALINE
A	70.20	F	22.95	M	6.85	CALC-ALKALINE
AL2O3	12.33	NORM PLAG	67.70	THOLEITIC		
AN	39.92	AB*	19.05	OR	41.04	K-RICH SERIES
CI	3.57	NORM PLAG	67.70	HIGH ALUMINA BASALT		

JENSEN CALC-ALKALINE RHYOLITE
AL 88.15 FE 8.00 MG 3.84

COLOR INDEX : 3.57
HASHIMOTO INDEX : 36.95

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

AU	-10.00:LI	10.00:BE	-10.00:B	40.00:SC	3.20:V	20.00:CR	140.00:MN	320.00:CO	4.00:
NI	6.00:CU	3.00:ZN	15.00:GE	10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:
CD	-0.20:SB	0.20:CS	1.90:LA	15.80:CE	35.00:ND	-5.00:SM	1.50:EU	0.50:YB	1.70:
LU	0.38:HF	2.00:TA	-1.00:W	-3.00:PB	2.00:BI	-0.50:TH	5.90:U	2.60:RB	90.00:
SR	80.00:Y	20.00:ZR	70.00:NB	30.00:BA	1340.00:				

COMMENTS : PS157/63NW. SERICITE SCHIST WITH 6%, 4MM, AUGEN SHAPED, SMOKEY TO CLEAR QTZ. EYES AFTER RHYOLITIC OR RHYODACITIC QTZ. CRYSTAL TUFF. O/C IS WEAKLY TO MODERATELY KINKED AND CONTAINS <1% KINKED QTZ. VEINS.

SAMPLE ID # AB15963

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM451
LOT : 0 CONCESSION :
GRID COORDINATES : E : 429500.0 N : 5417000.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,HOMOGENEOUS ,MATRIX SUPPORTED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 21-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	67.10	68.92	65.10
AL2O3	15.70	16.13	17.95
FE2O3	4.35	2.13	1.51
FEO	0.00	2.11	1.66
CAO	3.47	3.56	3.61
MGO	2.50	2.57	3.61
NA2O	2.21	2.27	4.16
K2O	1.42	1.46	1.76
TIO2	0.57	0.59	0.42
P2O5	0.11	0.11	0.09
MNO	0.15	0.15	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.46	0.00	0.00
TOTAL	97.36	100.00	100.00

NORMS	
Q	36.21
C	5.12
OR	8.80
AB	20.78
AN	17.28
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	7.23
FS	1.22
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.27
IL	0.83
CR	0.01
HM	0.00
AP	0.24
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	8.45
CPX	0.00
AB*	20.78

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.73 SIO2 68.92 SUBALKALINE

OL* 9.69 NE* 19.05 Q* 71.26 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 36.14 F 38.97 M 24.89 THOLEITIC

AL2O3 16.13 NORM PLAG 45.40 CALC-ALKALINE

AN 36.88 AB* 44.35 OR 18.77 AVERAGE SERIES

CI 11.55 NORM PLAG 45.40 ANDESITE

JENSEN CALC-ALKALINE DACITE
AL 71.01 FE 14.69 MG 14.30

COLOR INDEX : 11.55
HASHIMOTO INDEX : 40.83

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	30.00:BE	-10.00:B	30.00:SC	14.50:V	20.00:CR	110.00:MN	0.00:CO	3.00:
NI	5.00:CU	5.00:ZN	110.00:GE	10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:
CD	-0.20:SB	0.80:CS	1.20:LA	28.50:CE	56.00:ND	21.00:SM	6.20:EU	1.60:YB	4.60:
LU	0.84:HF	4.00:TA	-1.00:W	-3.00:PB	6.00:BI	-0.50:TH	5.30:U	2.20:RB	50.00:
SR	460.00:Y	50.00:ZR	150.00:NB	20.00:BA	1500.00:				

COMMENTS : $PS124/44SW. 2180E/410S. MOUND OF O/C IN LOWLANDS, RHYOLITIC TO RHYODACITIC QTZ-FELDSPAR CRYSTAL TUFF. QTZ. IS AUGEN SHAPED, 3%, 1-4MM. FELDSPAR IS ANHEDRAL, 15%, 1-2MM. MINOR RED STAINING, POSSIBLY FRACTURE-CONTROLLED K-METASOMATISM.

SAMPLE ID # AB15964

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM458
LOT : 0 CONCESSION :
GRID COORDINATES : E : 425775.0 N : 5420025.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 24-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	55.10	58.08	54.65
AL2O3	17.40	18.34	20.34
FE2O3	11.10	2.48	1.75
FEO	0.00	8.30	6.53
CAO	2.83	2.98	3.01
MGO	4.14	4.36	6.12
NA2O	2.59	2.73	4.98
K2O	1.22	1.29	1.55
TIO2	0.85	0.90	0.63
P2O5	0.35	0.37	0.29
MNO	0.17	0.18	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.24	0.00	0.00
TOTAL	94.86	99.00	99.00

NORMS	
Q	18.26
C	8.78
OR	7.73
AB	24.90
AN	12.58
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	12.24
FS	11.33
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.63
IL	1.27
CR	0.75
HM	0.00
AP	0.78
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	23.56
CPX	0.00
AB*	24.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.02 SIO2 58.08 SUBALKALINE

OL* 26.49 NE* 22.39 Q* 51.12 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 21.24 F 55.68 M 23.08 THOLEITIC

AL2O3 18.34 NORM PLAG 33.57 CALC-ALKALINE

AN 27.83 AB* 55.08 OR 17.09 AVERAGE SERIES

CI 27.46 NORM PLAG 33.57 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 57.26 FE 25.51 MG 17.23

COLOR INDEX : 27.46
HASHIMOTO INDEX : 49.72

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	0.00:LI	0.00:BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:MN	0.00:CO	0.00:
NI	0.00:CU	0.00:ZN	0.00:GE	0.00:AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:
CD	0.00:SB	0.00:CS	0.00:LA	0.00:CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:
LU	0.00:HF	0.00:TA	0.00:W	0.00:PB	0.00:BI	0.00:TH	0.00:U	0.00:RB	40.00:
SR	500.00:Y	20.00:ZR	80.00:NB	20.00:BA	570.00:				

COMMENTS : $PS121/79SW. CHLORITE OR CHLORITE-SERICITE SCHIST WITH 10%, 1-3MM ANHEDRAL (AND SOME STRETCHED) PLAGIOCLASE AND UP TO 3% CHLORITE PLATES AFTER INT. TUFF (ANDESITIC). MINOR RUST ON O/C.

SAMPLE ID # AB15965

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM459
LOT : 0 CONCESSION :
GRID COORDINATES : E : 425670.0 N : 5419860.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 24-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	80.30	81.47	77.28
AL2O3	10.40	10.55	11.80
FE2O3	1.89	1.67	1.19
FEO	0.00	0.22	0.17
CAO	0.12	0.12	0.12
MGO	1.33	1.35	1.91
NA2O	3.20	3.25	5.97
K2O	1.14	1.16	1.40
TIO2	0.15	0.15	0.11
P2O5	0.04	0.04	0.03
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	98.57	100.00	100.00

NORMS	
Q	53.12
C	4.29
OR	7.01
AB	29.85
AN	0.35
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.81
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.17
IL	0.22
CR	0.02
HM	1.08
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.81
CPX	0.00
AB*	29.85

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.40 SIO2 81.47 SUBALKALINE

OL* 3.30 NE* 20.64 Q* 76.06 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 58.88 F 23.07 M 18.04 CALC-ALKALINE

AL2O3 10.55 NORM PLAG 1.15 THOLEITIC

AN 0.93 AB* 80.24 OR 18.83 AVERAGE SERIES

CI 5.28 NORM PLAG 1.15 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 77.70 FE 9.73 MG 12.56

COLOR INDEX : 5.28
HASHIMOTO INDEX : 42.66

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	20.00:BE	-10.00:B	10.00:SC	3.20:V	10.00:CR	160.00:MN	160.00:CO	4.00:
NI	3.00:CU	10.00:ZN	40.00:GE	10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:
CD	-0.20:SB	0.40:CS	1.20:LA	12.10:CE	29.00:ND	5.00:SM	1.30:EU	0.60:YB	1.30:
LU	0.30:HF	2.00:TA	-1.00:W	-3.00:PB	2.00:BI	-0.50:TH	3.80:U	1.60:RB	50.00:
SR	100.00:Y	-10.00:ZR	70.00:NB	20.00:BA	560.00:				

COMMENTS : $PS124/50NE. POOR EXPOSURE, POSSIBLE BOULDER OF RHYO-DACITIC CRYSTAL TUFF WITH 10% QTZ. EYES (ROUND), 2-5MM, AND 7-12 PERCENT, 1-3MM, ROUND TO AUGEN SHAPED PLAGIOCLASE.

SAMPLE ID # AB15966

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 28877
TOWNSHIP :
NTS : 092C16
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM460
LOT : 0 CONCESSION :
GRID COORDINATES : E : 425390.0 N : 5419600.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY.
ANALYZED BY : XRAL

DATE : 24-JUL-86
DATE : 26-AUG-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.00	75.21	70.50
AL2O3	13.50	13.72	15.16
FE2O3	1.55	1.58	1.11
FEO	0.00	0.00	0.00
CAO	0.48	0.49	0.49
MGO	0.39	0.40	0.55
NA2O	3.16	3.21	5.84
K2O	5.07	5.15	6.17
TIO2	0.18	0.18	0.13
P2O5	0.05	0.05	0.04
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.24	0.00	0.00
TOTAL	98.39	100.00	100.00

NORMS	
Q	33.09
C	2.31
OR	30.85
AB	29.18
AN	2.11
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.11
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.01
HM	1.11
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.13
AG	0.00
OL	0.00
OPX	1.11
CPX	0.00
AB*	29.18

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.36 SIO2 75.21 SUBALKALINE

OL* 1.31 NE* 27.63 Q* 71.06 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 82.18 F 13.93 M 3.89 CALC-ALKALINE

AL2O3 13.72 NORM PLAG 6.75 CALC-ALKALINE

AN 3.40 AB* 46.96 OR 49.64 K-RICH SERIES

CI 2.22 NORM PLAG 6.75 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 89.42 FE 7.32 MG 3.27

COLOR INDEX : 2.22
HASHIMOTO INDEX : 60.00

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	-10.00:BE	-10.00:B	20.00:SC	3.20:V	10.00:CR	140.00:MN	160.00:CO	4.00:
NI	3.00:CU	1.50:ZN	13.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:
CD	-0.20:SB	0.40:CS	1.10:LA	12.70:CE	34.00:ND	-5.00:SM	1.10:EU	-0.30:YB	1.40:
LU	0.30:HF	3.00:TA	-1.00:W	-3.00:PB	-2.00:BI	-0.50:TH	7.10:U	2.30:RB	80.00:
SR	140.00:Y	10.00:ZR	80.00:NB	20.00:BA	1510.00:				

COMMENTS : $PS122/?N. RHYOLITE QTZ-FELDSPAR CRYSTAL TUFF WITH MINOR FOLDED QTZ. VEINS, SOME RUST. CONTAINS 3-8%, 3-6MM, ROUND TO ELLIPSOIDAL QTZ. EYES AND 10-15%, 1-3MM ANHEDRAL PLAGIOCLASE GRAINS.

SAMPLE ID # AB15967

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116PM500
LOT : 0 CONCESSION :
GRID COORDINATES : E : 434505.0 N : 5414687.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANIC,INTERMEDIATE,MEDIUM,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : METAMORPHOSED.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MONEY. DATE : 01-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86

ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.10	75.02	71.22
AL2O3	14.00	14.37	16.08
FE2O3	3.13	1.87	1.33
FEO	0.00	1.21	0.96
CAO	0.22	0.23	0.23
MGO	2.09	2.14	3.03
NA2O	1.72	1.77	3.25
K2O	2.84	2.91	3.53
TIO2	0.32	0.33	0.23
P2O5	0.07	0.07	0.06
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.85	0.00	0.00
TOTAL	97.44	100.00	100.00

NORMS	
Q	47.45
C	9.03
OR	17.67
AB	16.24
AN	0.67
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	6.07
FS	0.25
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.00
IL	0.47
CR	0.00
HM	0.00
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	6.32
CPX	0.00
AB*	16.24

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.68 SIO2 75.02 SUBALKALINE

OL* 6.77 NE* 13.92 Q* 79.31 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 48.17 F 29.75 M 22.08 CALC-ALKALINE

AL2O3 14.37 NORM PLAG 3.94 CALC-ALKALINE

AN 1.93 AB* 46.98 OR 51.10 K-RICH SERIES

CI 8.79 NORM PLAG 3.94 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 74.06 FE 11.96 MG 13.98

COLOR INDEX : 8.79
HASHIMOTO INDEX : 71.76

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	60.00:Y	20.00:ZR	130.00:NB	20.00:BA	870.00:

COMMENTS : $PS118/72S. RHYO-DACITIC TO ANDESITIC FLOW WITH 8%, 1MM ANHEDRAL PLAGIOCLASE (EPIDOTIZED) AND 2%, 5MM IN DIAMETER CHLORITE PLATES.

SAMPLE ID # AB17601

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB028A
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430495.0 N : 5417212.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,FELSIC,FINE,SCHIST,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER.
ANALYZED BY : XRAL

DATE : 27-JUN-85
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	74.80	76.27	71.54
AL203	14.60	14.89	16.46
FE203	2.03	1.80	1.27
FEO	0.00	0.24	0.19
CAO	0.21	0.21	0.22
MGO	0.29	0.30	0.41
NA20	4.04	4.12	7.49
K20	1.76	1.79	2.15
TI02	0.27	0.28	0.19
P205	0.06	0.06	0.05
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.01	0.01	0.01
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	98.07	100.00	100.00

NORMS	
Q	41.93
C	6.55
OR	10.75
AB	37.45
AN	0.67
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.83
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.04
IL	0.39
CR	0.01
HM	1.25
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.83
CPX	0.00
AB*	37.45

CLASSIFICATIONS AND INDICES

NA20+K20 5.91 SI02 76.27 SUBALKALINE

OL* 0.77 NE* 28.01 Q* 71.21 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 73.26 F 23.07 M 3.66 CALC-ALKALINE

AL203 14.89 NORM PLAG 1.76 CALC-ALKALINE

AN 1.37 AB* 76.64 OR 21.99 AVERAGE SERIES

CI 2.50 NORM PLAG 1.76 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 88.72 FE 9.05 MG 2.23

COLOR INDEX : 2.50
HASHIMOTO INDEX : 32.54

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	30.00:SR	140.00:Y	20.00:ZR	100.00:NB	10.00:BA	1030.00:

COMMENTS : IN CONTACT WITH A CHLORITE SCHIST. XRF, NA, AND MULTI-ELEMENT ANALYSES PERFORMED ALSO.

SAMPLE ID # AB17602 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB028B PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430495.0 N : 5417212.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,SCHIST,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.20	76.64	72.44
AL2O3	13.40	13.66	15.22
FE2O3	3.05	1.79	1.28
FEO	0.00	1.18	0.94
CAO	0.63	0.64	0.65
MGO	0.51	0.52	0.73
NA2O	3.49	3.56	6.52
K2O	1.56	1.59	1.92
TIO2	0.26	0.26	0.19
P2O5	0.06	0.06	0.05
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	98.12	100.00	100.00

NORMS	
Q	45.09
C	5.64
OR	9.60
AB	32.59
AN	2.84
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.46
FS	0.34
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.91
IL	0.38
CR	0.01
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.81
CPX	0.00
AB*	32.59

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.15 SIO2 76.64 SUBALKALINE
OL* 1.70 NE* 24.60 Q* 73.70 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 60.81 F 33.05 M 6.14 THOLEITIC
AL2O3 13.66 NORM PLAG 8.02 CALC-ALKALINE
AN 6.31 AB* 72.37 OR 21.31 AVERAGE SERIES
CI 4.10 NORM PLAG 8.02 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.64 FE 13.39 MG 3.98

COLOR INDEX : 4.10
HASHIMOTO INDEX : 33.44

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	20.00:SR	130.00:Y	-10.00:ZR	90.00:NB	20.00:BA	930.00:

COMMENTS : IN CONTACT WITH CHLORITE SCHIST. XRF,NA,MULTI-ELEMENT ANALYSES PERFORMED.

SAMPLE ID # AB17603

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB029
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430550.0 N : 5417005.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,FELSIC,FINE,SCHIST,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85

ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.40	75.41	70.59
AL2O3	13.20	13.56	14.96
FE2O3	1.88	1.73	1.22
FEO	0.00	0.18	0.14
CAO	1.63	1.67	1.68
MGO	0.67	0.69	0.96
NA2O	3.91	4.02	7.29
K2O	2.41	2.48	2.96
TIO2	0.18	0.18	0.13
P2O5	0.04	0.04	0.03
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.77	0.00	0.00
TOTAL	97.34	100.00	100.00

NORMS	
Q	35.63
C	1.46
OR	14.80
AB	36.45
AN	8.13
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.92
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.11
IL	0.26
CR	0.01
HM	1.15
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.92
CPX	0.00
AB*	36.45

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.49 SIO2 75.41 SUBALKALINE

OL* 1.95 NE* 29.55 Q* 68.50 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 72.80 F 19.49 M 7.72 CALC-ALKALINE

AL2O3 13.56 NORM PLAG 18.23 CALC-ALKALINE

AN 13.69 AB* 61.39 OR 24.93 K-RICH SERIES

CI 3.43 NORM PLAG 18.23 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.80 FE 8.69 MG 5.51

COLOR INDEX : 3.43
HASHIMOTO INDEX : 35.73

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	60.00:SR	110.00:Y	10.00:ZR	80.00:NB	-10.00:BA	930.00:

COMMENTS : QTZ. EYES UP TO 7 MM. PRESENT. XRF,NA, MULTI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17604 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB030 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430635.0 N : 5416870.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CARBONATIZATION ,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.30	74.27	69.89
AL2O3	13.70	14.07	15.61
FE2O3	2.61	1.80	1.27
FEO	0.00	0.79	0.63
CAO	0.90	0.92	0.93
MGO	1.41	1.45	2.03
NA2O	2.75	2.82	5.15
K2O	3.41	3.50	4.21
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.34	99.00	99.00

NORMS	
Q	37.72
C	4.55
OR	21.05
AB	25.77
AN	4.25
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.06
FS	0.70
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.91
IL	0.36
CR	0.75
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.76
CPX	0.00
AB*	25.77

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.33 SIO2 74.27 SUBALKALINE
OL* 5.23 NE* 22.65 Q* 72.12 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.11 F 23.68 M 14.22 CALC-ALKALINE
AL2O3 14.07 NORM PLAG 14.16 CALC-ALKALINE
AN 8.32 AB* 50.46 OR 41.22 K-RICH SERIES
CI 7.03 NORM PLAG 14.16 DACITE

JENSEN CALC-ALKALINE DACITE
AL 78.99 FE 10.73 MG 10.28

COLOR INDEX : 7.03
HASHIMOTO INDEX : 56.91

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 60.00:SR 250.00:Y 10.00:ZR 100.00:NB 20.00:BA 1230.00:

COMMENTS : QTZ. EYES AND FELDSPAR CRYSTALS LESS THAN 3 MM. ROCK IS A CRYSTAL TUFF. XRF, NA, MULTI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17605 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KB031 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 430687.0 N : 5416815.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. — DATE : 27-JUN-85
ANALYZED BY : XRAL — DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.00	76.06	71.42
AL2O3	14.10	14.30	15.83
FE2O3	1.72	1.74	1.23
FEO	0.00	0.00	0.00
CAO	0.68	0.69	0.69
MGO	0.65	0.66	0.92
NA2O	3.55	3.60	6.55
K2O	2.54	2.58	3.09
TIO2	0.27	0.27	0.19
P2O5	0.06	0.06	0.05
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.39	0.00	0.00
TOTAL	98.60	100.00	100.00

NORMS	
Q	40.34
C	4.96
OR	15.45
AB	32.77
AN	3.07
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.84
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.02
CR	0.01
HM	1.23
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.18
AG	0.00
OL	0.00
OPX	1.84
CPX	0.00
AB*	32.77

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.18 SIO2 76.06 SUBALKALINE
OL* 1.85 NE* 26.23 Q* 71.92 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 73.48 F 18.67 M 7.84 CALC-ALKALINE
AL2O3 14.30 NORM PLAG 8.55 CALC-ALKALINE
AN 5.98 AB* 63.90 OR 30.12 K-RICH SERIES
CI 3.10 NORM PLAG 8.55 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.00 FE 7.93 MG 5.07

COLOR INDEX : 3.10
HASHIMOTO INDEX : 42.99

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR 0.00	RB 50.00	SR 130.00	Y 10.00	ZR 100.00	NB 10.00	BA 1390.00

COMMENTS : MINOR SERICITE AND MINOR QTZ. EYES. XRF, NA, MULTI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17606 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KB032 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 430710.0 N : 5416987.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,SCHIST,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. — DATE : 27-JUN-85
ANALYZED BY : XRAL — DATE : 11-JUL-85 — ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.80	75.93	71.05
AL2O3	12.20	12.55	13.84
FE2O3	1.32	1.36	0.96
FEO	0.00	0.00	0.00
CAO	2.92	3.00	3.01
MGO	0.44	0.45	0.63
NA2O	4.12	4.24	7.69
K2O	2.12	2.18	2.61
TIO2	0.17	0.17	0.12
P2O5	0.05	0.05	0.04
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	97.20	100.00	100.00

NORMS	
Q	34.81
C	0.00
OR	13.03
AB	38.45
AN	8.87
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.53
HE	0.00
EN	0.00
FS	0.00
FO	0.00
FA	0.00
WO	1.08
LN	0.00
MT	0.00
IL	0.07
CR	0.01
HM	0.96
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.09
AG	0.00
OL	0.00
OPX	0.00
CPX	2.53
AB*	38.45

CLASSIFICATIONS AND INDICES

NA2O+K2O	6.42	SIO2	75.93	SUBALKALINE		
OL*	0.00	NE*	31.49	Q*	68.51	SUBALKALINE
CPX100.00		OL	0.00	OPX	0.00	ALKALINE
A	79.31	F	15.10	M	5.59	CALC-ALKALINE
AL2O3	12.55	NORM PLAG	18.74			THOLEITIC
AN	14.70	AB*	63.71	OR	21.60	AVERAGE SERIES
CI	3.56	NORM PLAG	18.74			DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 88.77 FE 7.18 MG 4.05

COLOR INDEX : 3.56
HASHIMOTO INDEX : 26.67

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	40.00:SR	190.00:Y	20.00:ZR	70.00:NB	20.00:BA	850.00:

COMMENTS : QTZ. EYES, SERICITE SCHIST WITH THE QTZ. EYES (5 MM.) MAKING UP 10% OF ROCK. XRF, NA, MULTI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17607 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB033 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431100.0 N : 5416645.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	77.50	79.23	75.93
AL2O3	12.10	12.37	13.97
FE2O3	2.65	1.75	1.26
FEO	0.00	0.86	0.69
CAO	0.05	0.05	0.05
MGO	0.88	0.90	1.28
NA2O	1.59	1.63	3.02
K2O	2.85	2.91	3.57
TIO2	0.21	0.21	0.15
P2O5	0.04	0.04	0.03
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.93	0.00	0.00
TOTAL	97.82	100.00	100.00

NORMS	
Q	54.89
C	7.39
OR	17.83
AB	15.10
AN	0.01
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.57
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.68
IL	0.31
CR	0.01
HM	0.14
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.57
CPX	0.00
AB*	15.10

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.54 SIO2 79.23 SUBALKALINE
OL* 2.66 NE* 12.49 Q* 84.86 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 57.63 F 30.95 M 11.42 THOLEITIC
AL2O3 12.37 NORM PLAG 0.00 CALC-ALKALINE
AN 0.00 AB* 45.85 OR 54.15 K-RICH SERIES
CI 4.70 NORM PLAG 0.00 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.34 FE 12.27 MG 7.39

COLOR INDEX : 4.70
HASHIMOTO INDEX : 69.46

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR	0.00:RB	50.00:SR	40.00:Y	10.00:ZR	80.00:NB	10.00:BA	950.00:

COMMENTS : QTZ. EYES MAKE UP 2% OF SAMPLE. O/C IS WEATHERED. XRF, NA, MUTLI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17608 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB034 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430890.0 N : 5416745.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.00	72.65	67.08
AL2O3	15.00	15.35	16.70
FE2O3	2.38	1.81	1.26
FEO	0.00	0.56	0.43
CAO	0.34	0.35	0.34
MGO	1.23	1.26	1.73
NA2O	5.07	5.19	9.29
K2O	2.38	2.44	2.87
TIO2	0.27	0.28	0.19
P2O5	0.06	0.06	0.05
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	97.73	100.00	100.00

NORMS	
Q	28.35
C	4.02
OR	14.36
AB	46.43
AN	1.32
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.46
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.83
IL	0.38
CR	0.01
HM	0.70
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.46
CPX	0.00
AB*	46.43

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.62 SIO2 72.65 SUBALKALINE

OL* 3.32 NE* 35.61 Q* 61.07 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 68.84 F 19.79 M 11.37 CALC-ALKALINE

AL2O3 15.35 NORM PLAG 2.76 CALC-ALKALINE

AN 2.13 AB* 74.76 OR 23.12 AVERAGE SERIES

CI 5.38 NORM PLAG 2.76 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.04 FE 9.45 MG 8.51

COLOR INDEX : 5.38
HASHIMOTO INDEX : 40.02

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 60.00:SR 240.00:Y -10.00:ZR 100.00:NB 20.00:BA 1070.00:

COMMENTS : SAMPLE IS A CRYSTAL TUFF WITH QTZ. EYES UP TO 4 MM. AND FELDSPAR CRYSTALS UP TO 1 MM. XRF, NA, MULTI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17609 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB035 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430990.0 N : 5416402.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SILICIFICATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	68.10	69.28	65.94
AL2O3	13.80	14.04	15.75
FE2O3	4.75	1.86	1.33
FEO	0.00	2.67	2.13
CAO	7.43	7.56	7.71
MGO	0.80	0.81	1.15
NA2O	2.59	2.63	4.86
K2O	0.57	0.58	0.70
TIO2	0.33	0.34	0.24
P2O5	0.10	0.10	0.08
MNO	0.11	0.11	0.09
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.62	0.00	0.00
TOTAL	98.30	100.00	100.00

NORMS	
Q	34.11
C	0.00
OR	3.52
AB	24.31
AN	25.46
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	4.62
HE	5.23
EN	0.00
FS	0.00
FO	0.00
FA	0.00
WO	0.04
LN	0.00
MT	2.00
IL	0.48
CR	0.01
HM	0.00
AP	0.22
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	0.00
CPX	9.85
AB*	24.31

CLASSIFICATIONS AND INDICES

NA2O+K2O	3.21	SIO2	69.28	SUBALKALINE		
OL*	0.00	NE*	24.97	Q*	75.03	SUBALKALINE
CPX	100.00	OL	0.00	OPX	0.00	ALKALINE
A	38.38	F	51.91	M	9.72	THOLEITIC
AL2O3	14.04	NORM PLAG	51.15	THOLEITIC		
AN	47.77	AB*	45.62	OR	6.61	AVERAGE SERIES
CI	12.33	NORM PLAG	51.15	ANDESITE		

JENSEN THOLEIITIC RHYOLITE
AL 76.10 FE 18.32 MG 5.58

COLOR INDEX : 12.33
HASHIMOTO INDEX : 12.03

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	20.00:SR	380.00:Y	20.00:ZR	70.00:NB	20.00:BA	480.00:

COMMENTS : POSSIBLY A RHYOLITE FLOW. XRF, NA, MULTI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17610 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB036 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430952.0 N : 5416415.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,TECTONIZED.
FINAL NAME :
ALTERATION : PERVASIVE ,SILICIFICATION,WEAK.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.60	72.85	68.00
AL203	13.20	13.43	14.78
FE203	3.44	1.85	1.30
FEO	0.00	1.48	1.16
CAO	3.56	3.62	3.62
MGO	0.84	0.85	1.19
NA2O	5.00	5.09	9.21
K2O	0.29	0.30	0.35
TIO2	0.32	0.33	0.23
P2O5	0.11	0.11	0.09
MNO	0.08	0.08	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	98.29	100.00	100.00

NORMS	
Q	31.72
C	0.00
OR	1.76
AB	46.03
AN	13.05
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.69
HE	0.77
EN	1.03
FS	0.29
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.95
IL	0.46
CR	0.01
HM	0.00
AP	0.24
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.33
CPX	3.46
AB*	46.03

CLASSIFICATIONS AND INDICES

NA2O+K2O	5.38	SIO2	72.85	SUBALKALINE		
OL*	1.26	NE*	34.93	Q*	63.81	SUBALKALINE
CPX	72.32	OL	0.00	OPX	27.68	ALKALINE
A	57.34	F	33.55	M	9.11	THOLEITIC
AL203	13.43	NORM PLAG	22.08	THOLEITIC		
AN	21.45	AB*	75.66	OR	2.89	K-POOR SERIES
CI	7.20	NORM PLAG	22.08	DACITE		

JENSEN CALC-ALKALINE DACITE
AL 78.95 FE 14.70 MG 6.35

COLOR INDEX : 7.20
HASHIMOTO INDEX : 11.66

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	10.00:SR	170.00:Y	10.00:ZR	70.00:NB	20.00:BA	220.00:

COMMENTS : XRF, NA, MULTI-ELEMENT ANALYSES PERFORMED ALSO.

SAMPLE ID # AB17611 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KB037 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 431065.0 N : 5416360.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. — DATE : 27-JUN-85
ANALYZED BY : XRAL — DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	69.00	71.16	66.62
AL2O3	14.70	15.16	16.73
FE2O3	3.96	1.91	1.34
FEO	0.00	1.96	1.53
CAO	1.88	1.94	1.94
MGO	1.43	1.47	2.06
NA2O	3.72	3.84	6.96
K2O	1.95	2.01	2.40
TIO2	0.35	0.36	0.25
P2O5	0.09	0.09	0.07
MNO	0.09	0.09	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.08	0.00	0.00
TOTAL	96.95	99.00	99.00

NORMS	
Q	31.64
C	3.72
OR	12.02
AB	34.82
AN	9.11
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.12
FS	2.36
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.02
IL	0.51
CR	0.75
HM	0.00
AP	0.20
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	6.48
CPX	0.00
AB*	34.82

CLASSIFICATIONS AND INDICES

NA2O+K2O	5.85	SIO2	71.16	SUBALKALINE
OL* 6.66	NE* 28.64	Q*	64.70	SUBALKALINE
CPX 0.00	OL 0.00	OPX	100.00	SUBALKALINE
A 53.17	F 33.42	M	13.41	THOLEITIC
AL2O3	15.16	NORM PLAG	20.74	CALC-ALKALINE
AN 16.28	AB* 62.23	OR	21.49	AVERAGE SERIES
CI	9.00	NORM PLAG	20.74	DACITE

JENSEN CALC-ALKALINE DACITE
AL 76.07 FE 14.57 MG 9.36

COLOR INDEX : 9.00
HASHIMOTO INDEX : 37.64

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	40.00:SR	180.00:Y	20.00:ZR	100.00:NB	10.00:BA	940.00:

COMMENTS : XRF, NA, MULTI-ELEMENT ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17612

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB038
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430560.0 N : 5417365.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,FELSIC,FINE,WHITE MICA,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER.
ANALYZED BY : XRAL

DATE : 27-JUN-85
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.70	75.40	70.15
AL2O3	14.60	14.74	16.16
FE2O3	1.38	1.39	0.98
FEO	0.00	0.00	0.00
CAO	0.91	0.92	0.92
MGO	0.78	0.79	1.09
NA2O	4.57	4.61	8.32
K2O	1.77	1.79	2.12
TIO2	0.27	0.27	0.19
P2O5	0.06	0.06	0.05
MNO	0.02	0.02	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.24	0.00	0.00
TOTAL	99.07	100.00	100.00

NORMS	
Q	36.06
C	4.05
OR	10.61
AB	41.60
AN	4.18
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.18
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.02
CR	0.01
HM	0.98
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.18
AG	0.00
OL	0.00
OPX	2.18
CPX	0.00
AB*	41.60

CLASSIFICATIONS AND INDICES

NA2O+K2O	6.40	SIO2	75.40	SUBALKALINE		
OL*	2.05	NE*	31.26	Q*	66.69	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	75.82	F	14.85	M	9.33	CALC-ALKALINE
AL2O3	14.74	NORM PLAG	9.13			CALC-ALKALINE
AN	7.41	AB*	73.77	OR	18.82	AVERAGE SERIES
CI	3.18	NORM PLAG	9.13			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.67 FE 6.41 MG 5.92

COLOR INDEX : 3.18
HASHIMOTO INDEX : 31.76

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	30.00:SR	150.00:Y	10.00:ZR	110.00:NB	20.00:BA	1120.00:

COMMENTS : QTZ. EYES ACCOUNT FOR 5% AND ARE UP TO 3 MM. A CHLORITE SCHIST IN CONTACT. XRF, NA, MULTI-ELEMENT ANALYSES DONE.

SAMPLE ID # AB17613

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB039
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430650.0 N : 5417310.0 EL : 5417305.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CARBONATE,WHITE MICA,STAUROLITE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : J. MONGER.
DATE : 27-JUN-85
ANALYZED BY : XRAL
DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	67.70	69.34	64.58
AL203	16.50	16.90	18.55
FE203	3.31	2.00	1.40
FEO	0.00	1.25	0.98
CAO	1.62	1.66	1.66
MGO	1.29	1.32	1.83
NA2O	3.71	3.80	6.86
K2O	3.02	3.09	3.68
TIO2	0.45	0.46	0.32
P2O5	0.14	0.14	0.11
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	97.62	99.00	99.00

NORMS	
Q	27.71
C	5.08
OR	18.40
AB	34.31
AN	7.34
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.67
FS	0.96
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.10
IL	0.65
CR	0.75
HM	0.00
AP	0.30
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.62
CPX	0.00
AB*	34.31

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.89 SIO2 69.34 SUBALKALINE

OL* 5.20 NE* 30.89 Q* 63.91 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 61.19 F 27.08 M 11.73 CALC-ALKALINE

AL203 16.90 NORM PLAG 17.62 CALC-ALKALINE

AN 12.22 AB* 57.14 OR 30.64 K-RICH SERIES

CI 7.37 NORM PLAG 17.62 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.28 FE 11.78 MG 7.94

COLOR INDEX : 7.37
HASHIMOTO INDEX : 44.71

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	60.00:SR	130.00:Y	30.00:ZR	120.00:NB	10.00:BA	1500.00:

COMMENTS : XRF, NA, MULTI-ELEMENT ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17614 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB040 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430775.0 N : 5416645.0 EL : 5417285.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,MEDIUM,MASSIVE ,GLOMEROPORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : NOT VISIBLE.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	48.80	50.38	47.74
AL2O3	14.60	15.07	16.83
FE2O3	13.00	3.48	2.48
FEO	0.00	8.95	7.09
CAO	11.20	11.56	11.74
MGO	5.97	6.16	8.70
NA2O	1.90	1.96	3.60
K2O	0.10	0.10	0.12
TIO2	1.87	1.93	1.38
P2O5	0.18	0.19	0.15
MNO	0.19	0.20	0.16
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.86	100.00	100.00

NORMS	
Q	5.18
C	0.00
OR	0.62
AB	18.02
AN	32.76
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	12.90
HE	6.85
EN	10.96
FS	5.83
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.72
IL	2.75
CR	0.01
HM	0.00
AP	0.40
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	16.78
CPX	19.75
AB*	18.02

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.06 SIO2 50.38 SUBALKALINE

OL* 31.49 NE* 27.04 Q* 41.47 SUBALKALINE

CPX 54.06 OL 0.00 OPX 45.94 SUBALKALINE

A 10.17 F 59.48 M 30.35 THOLEITIC

AL2O3 15.07 NORM PLAG 64.52 THOLEITIC

AN 63.74 AB* 35.05 OR 1.22 K-POOR SERIES

CI 43.01 NORM PLAG 64.52 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 45.94 FE 30.30 MG 23.75

COLOR INDEX : 43.01
HASHIMOTO INDEX : 31.66

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	10.00:SR	220.00:Y	20.00:ZR	90.00:NB	10.00:BA	80.00:

COMMENTS : MEDIUM GRAINED GABBRO/GLOMERO TEXTURE SLIGHTLY DEVELOPED. XRF, NA, MULTI-ELEMENT ANALYSES ALSO DONE.

SAMPLE ID # AB17615 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB041 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430785.0 N : 5417305.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,COARSE,EQUIGRANULAR,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : NOT VISIBLE.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.50	51.50	50.23
AL2O3	11.20	11.65	13.40
FE2O3	18.10	5.34	3.92
FEO	0.00	12.14	9.90
CAO	8.15	8.48	8.86
MGO	3.42	3.56	5.17
NA2O	2.35	2.44	4.62
K2O	0.46	0.48	0.60
TIO2	3.63	3.78	2.77
P2O5	0.34	0.35	0.29
MNO	0.27	0.28	0.23
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	96.11	99.00	99.00

NORMS	
Q	11.03
C	0.00
OR	2.98
AB	23.12
AN	20.44
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	8.00
HE	9.14
EN	6.34
FS	7.25
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	5.88
IL	5.54
CR	0.75
HM	0.00
AP	0.78
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	13.59
CPX	17.14
AB*	23.12

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.92	SIO2 51.50	SUBALKALINE		
OL* 21.35	NE* 29.06	Q* 49.60	SUBALKALINE	
CPX 55.78	OL 0.00	OPX 44.22	SUBALKALINE	
A 12.48	F 72.33	M 15.19	THOLEITIC	
AL2O3 11.65	NORM PLAG 46.93	THOLEITIC		
AN 43.93	AB* 49.67	OR 6.40	AVERAGE SERIES	
CI 42.15	NORM PLAG 46.93	BASALT		

JENSEN HIGH IRON THOLEIITIC BASALT
AL 37.85 FE 47.54 MG 14.61

COLOR INDEX : 42.15
HASHIMOTO INDEX : 26.98

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 20.00:SR 200.00:Y 40.00:ZR 210.00:NB 40.00:BA 220.00:

COMMENTS : COARSE GRAINED GABBRO. XRF, NA, MULTI-ELEMENT ANALYSES ALSO DONE.

SAMPLE ID # AB17616

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB042
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430865.0 N : 5417230.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,WHITE MICA,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER.
ANALYZED BY : XRAL

DATE : 27-JUN-85
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.30	73.55	69.48
AL2O3	14.10	14.34	15.97
FE2O3	3.03	1.80	1.28
FEO	0.00	1.15	0.91
CAO	2.62	2.67	2.70
MGO	1.31	1.33	1.88
NA2O	2.75	2.80	5.12
K2O	1.92	1.95	2.36
TIO2	0.27	0.27	0.20
P2O5	0.07	0.07	0.06
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.70	0.00	0.00
TOTAL	98.30	100.00	100.00

NORMS	
Q	39.85
C	3.29
OR	11.78
AB	25.62
AN	13.01
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.75
FS	0.23
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.92
IL	0.39
CR	0.01
HM	0.00
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.98
CPX	0.00
AB*	25.62

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.75 SIO2 73.55 SUBALKALINE

OL* 4.30 NE* 22.13 Q* 73.57 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 53.64 F 31.31 M 15.05 THOLEITIC

AL2O3 14.34 NORM PLAG 33.69 THOLEITIC

AN 25.81 AB* 50.81 OR 23.37 AVERAGE SERIES

CI 6.29 NORM PLAG 33.69 DACITE

JENSEN CALC-ALKALINE DACITE
AL 78.78 FE 11.97 MG 9.25

COLOR INDEX : 6.29
HASHIMOTO INDEX : 37.56

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	30.00:SR	160.00:Y	20.00:ZR	110.00:NB	10.00:BA	1780.00:

COMMENTS : CHLORITE ALMOST AS ABUNDANT AS SERICITE. QTZ. EYES UP TO 4 MM. XRF, NA, MULTI-ELEMENT ANALYSES ALSO DONE.

SAMPLE ID # AB17617 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB043
LOT : 0 CONCESSION :
GRID COORDINATES : E : 430915.0 N : 5417075.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,FELSIC,FINE,WHITE MICA,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER.
DATE : 27-JUN-85
ANALYZED BY : XRAL
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.40	78.36	75.45
AL2O3	14.30	14.67	16.65
FE2O3	2.09	1.76	1.28
FEO	0.00	0.34	0.27
CAO	0.04	0.04	0.04
MGO	0.36	0.37	0.53
NA2O	0.71	0.73	1.36
K2O	3.28	3.36	4.14
TIO2	0.22	0.23	0.16
P2O5	0.04	0.04	0.03
MNO	0.10	0.10	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.46	0.00	0.00
TOTAL	97.49	99.00	99.00

NORMS	
Q	58.40
C	11.18
OR	20.69
AB	6.80
AN	0.03
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.06
FS	0.11
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.92
IL	0.33
CR	0.75
HM	0.00
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.17
CPX	0.00
AB*	6.80

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.09 SIO2 78.36 SUBALKALINE

OL* 1.32 NE* 6.14 Q* 92.53 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 64.04 F 30.18 M 5.78 THOLEITIC

AL2O3 14.67 NORM PLAG 0.00 CALC-ALKALINE

AN 0.00 AB* 24.73 OR 75.27 K-RICH SERIES

CI 3.42 NORM PLAG 0.00 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.72 FE 9.49 MG 2.79

COLOR INDEX : 3.42
HASHIMOTO INDEX : 82.92

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 70.00:SR 60.00:Y 20.00:ZR 90.00:NB 20.00:BA 1630.00:

COMMENTS : XRF, NA, MULTI-ELEMENT ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17618

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB044
LOT : 0 CONCESSION :

GRID COORDINATES : E : 430950.0 N : 5417060.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,FELSIC,FINE,WHITE MICA,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER.
DATE : 27-JUN-85
ANALYZED BY : XRAL
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.60	78.75	75.74
AL203	13.70	14.08	15.97
FE203	1.52	1.56	1.13
FEO	0.00	0.00	0.00
CAO	0.87	0.89	0.92
MGO	0.44	0.45	0.65
NA2O	0.76	0.78	1.46
K2O	3.10	3.19	3.91
TIO2	0.19	0.20	0.14
P2O5	0.06	0.06	0.05
MNO	0.03	0.03	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.54	0.00	0.00
TOTAL	97.26	99.00	99.00

NORMS	
Q	57.30
C	8.92
OR	19.57
AB	7.28
AN	4.19
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.30
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.15
IL	0.28
CR	0.75
HM	0.36
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.30
CPX	0.00
AB*	7.28

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.97 SIO2 78.75 SUBALKALINE

OL* 1.48 NE* 6.63 Q* 91.89 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 68.11 F 24.13 M 7.76 CALC-ALKALINE

AL203 14.08 NORM PLAG 36.51 THOLEITIC

AN 13.49 AB* 23.46 OR 63.04 K-RICH SERIES

CI 3.09 NORM PLAG 36.51 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 89.14 FE 7.24 MG 3.62

COLOR INDEX : 3.09
HASHIMOTO INDEX : 68.47

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	60.00:SR	90.00:Y	10.00:ZR	90.00:NB	20.00:BA	1110.00:

COMMENTS : XRF, NA, MULTI-ELEMENT ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17619

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB045
LOT : 0 CONCESSION :
GRID COORDINATES : E : 431060.0 N : 5416965.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER
DATE : 27-JUN-85
ANALYZED BY : XRAL
DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.50	76.80	73.62
AL2O3	11.90	12.43	14.05
FE2O3	1.50	1.57	1.13
FEO	0.00	0.00	0.00
CAO	3.80	3.97	4.08
MGO	0.85	0.89	1.27
NA2O	1.03	1.08	2.00
K2O	2.83	2.96	3.62
TIO2	0.17	0.18	0.13
P2O5	0.06	0.06	0.05
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.47	0.00	0.00
TOTAL	95.70	100.00	100.00

NORMS	
Q	47.50
C	0.44
OR	18.10
AB	10.00
AN	19.97
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.54
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.08
CR	0.01
HM	1.13
AP	0.14
PO	0.00
NS	0.00
KS	0.00
RU	0.09
AG	0.00
OL	0.00
OPX	2.54
CPX	0.00
AB*	10.00

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.03 SIO2 76.80 SUBALKALINE

OL* 3.17 NE* 9.99 Q* 86.84 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 63.70 F 22.27 M 14.03 CALC-ALKALINE

AL2O3 12.43 NORM PLAG 66.63 THOLEITIC

AN 41.54 AB* 20.80 OR 37.66 K-RICH SERIES

CI 3.75 NORM PLAG 66.63 HIGH ALUMINA BASALT

JENSEN CALC-ALKALINE RHYOLITE
AL 84.54 FE 7.83 MG 7.63

COLOR INDEX : 3.75
HASHIMOTO INDEX : 43.24

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	50.00:SR	150.00:Y	10.00:ZR	70.00:NB	30.00:BA	1040.00:

COMMENTS : QTZ. AND FELDSPAR CRYSTAL TUFF. XRF, NA, MULTI-ELEMENT ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17620

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KB046
LOT : 0 CONCESSION :

GRID COORDINATES : E : 431115.0 N : 5416905.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,WHITE MICA,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER.
DATE : 27-JUN-85

ANALYZED BY : XRAL
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.40	77.16	73.35
AL2O3	13.40	13.71	15.36
FE2O3	2.45	1.73	1.24
FEO	0.00	0.70	0.56
CAO	0.05	0.05	0.05
MGO	1.99	2.04	2.89
NA2O	1.67	1.71	3.15
K2O	2.59	2.65	3.22
TIO2	0.19	0.19	0.14
P2O5	0.02	0.02	0.02
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	97.72	100.00	100.00

NORMS	
Q	51.31
C	8.95
OR	16.09
AB	15.75
AN	0.12
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.77
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.31
IL	0.28
CR	0.01
HM	0.36
AP	0.04
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.77
CPX	0.00
AB*	15.75

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.36 SIO2 77.16 SUBALKALINE

OL* 5.94 NE* 12.97 Q* 81.08 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 50.39 F 26.07 M 23.54 CALC-ALKALINE

AL2O3 13.71 NORM PLAG 0.78 CALC-ALKALINE

AN 0.39 AB* 49.27 OR 50.34 K-RICH SERIES

CI 7.72 NORM PLAG 0.78 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 76.04 FE 9.69 MG 14.28

COLOR INDEX : 7.72
HASHIMOTO INDEX : 72.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR 0.00:RB 40.00:SR 140.00:Y -10.00:ZR 100.00:NB 10.00:BA 1010.00:

COMMENTS : XRF, NA, MULTI-ELEMENT ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17621 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KB047 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431355.0 N : 5416615.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL ,NIL.
FORMATION :

SAMPLED BY : J. MONGER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	58.60	61.27	56.58
AL2O3	15.90	16.63	18.09
FE2O3	9.05	2.52	1.75
FEO	0.00	6.25	4.82
CAO	0.36	0.38	0.37
MGO	5.99	6.26	8.62
NA2O	3.85	4.03	7.21
K2O	1.34	1.40	1.65
TIO2	0.91	0.95	0.66
P2O5	0.20	0.21	0.16
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.62	0.00	0.00
TOTAL	95.63	100.00	100.00

NORMS	
Q	17.84
C	9.04
OR	8.26
AB	36.03
AN	0.50
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	17.24
FS	6.69
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.63
IL	1.32
CR	0.02
HM	0.00
AP	0.44
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	23.93
CPX	0.00
AB*	36.03

CLASSIFICATIONS AND INDICES

NA2O+K2O	5.43	SIO2	61.27	SUBALKALINE
OL* 23.07	NE* 27.79	Q*	49.14	SUBALKALINE
CPX 0.00	OL 0.00	OPX	100.00	SUBALKALINE
A 26.86	F 42.14	M	31.00	THOLEITIC
AL2O3	16.63	NORM PLAG	1.36	CALC-ALKALINE
AN 1.11	AB* 80.45	OR	18.44	AVERAGE SERIES
CI	27.88	NORM PLAG	1.36	DACITE

JENSEN CALC-ALKALINE BASALT
AL 53.20 FE 21.47 MG 25.34

COLOR INDEX : 27.88
HASHIMOTO INDEX : 63.52

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	50.00:SR	90.00:Y	20.00:ZR	20.00:NB	-10.00:BA	390.00:

COMMENTS : XRF, NA, MULTI-ELEMENT ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17802 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR014 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430710.0 N : 5415960.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,CHERT ,FINE,TECTONIZED.
FINAL NAME :
ALTERATION : PERVASIVE ,CARBONATIZATION ,WEAK.
MINERALIZATION : NIL ,NIL ,LOOK AT COMMENTS FILE.
FORMATION :

SAMPLED BY : K. RYE. DATE : 28-MAY-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	89.50	91.24	90.00
AL2O3	4.10	4.18	4.86
FE2O3	2.03	1.70	1.26
FEO	0.00	0.33	0.27
CAO	0.18	0.18	0.19
MGO	0.92	0.94	1.38
NA2O	0.51	0.52	0.99
K2O	0.69	0.70	0.89
TIO2	0.17	0.17	0.13
P2O5	0.03	0.03	0.03
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.24	0.00	0.00
TOTAL	98.09	100.00	100.00

NORMS	
Q	82.67
C	2.68
OR	4.43
AB	4.97
AN	0.76
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.76
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.43
IL	0.26
CR	0.00
HM	0.98
AP	0.07
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.76
CPX	0.00
AB*	4.97

CLASSIFICATIONS AND INDICES

NA2O+K2O 1.22 SIO2 91.24 SUBALKALINE

OL* 2.29 NE* 3.30 Q* 94.41 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 30.41 F 46.28 M 23.31 THOLEITIC

AL2O3 4.18 NORM PLAG 13.21 THOLEITIC

AN 7.45 AB* 48.94 OR 43.62 K-RICH SERIES

CI 4.42 NORM PLAG 13.21 RHYOLITE

JENSEN CALC-ALKALINE ANDESITE
AL 61.49 FE 21.06 MG 17.45

COLOR INDEX : 4.42
HASHIMOTO INDEX : 70.00

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	-10.00:Y	-10.00:ZR	10.00:NB	10.00:BA	1400.00:AU	10.00:LI	-10.00:BE	-10.00:
B	50.00:SC	9.30:V	50.00:CR	220.00:MN	350.00:CO	4.00:NI	21.00:CU	32.00:ZN	41.00:
AS	7.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	1.10:CS	0.70:LA	8.90:
CE	16.00:ND	10.00:SM	2.10:EU	0.50:YB	1.10:LU	0.17:HF	1.00:TA	-1.00:W	-3.00:
PB	6.00:BI	-0.50:TH	0.60:U	1.30:GE	-10.00:				

COMMENTS : CHIP 1 GRID. L37+75E/6+60S. CHLORITE, SILICA AND WEAKLY SERICITE ALTERED CHERT. ALSO FOLIATED. XRF,NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17821

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : AB17821
LOT : 0 CONCESSION :
GRID COORDINATES : E : 431360.0 N : 5416695.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : K. RYE.
ANALYZED BY : X-RAL

DATE : 05-JUN-85
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	82.70	84.66	82.25
AL203	10.00	10.24	11.72
FE203	0.85	0.87	0.64
FEO	0.00	0.00	0.00
CAO	0.00	0.50	0.50
MGO	0.64	0.66	0.95
NA20	0.16	0.16	0.31
K20	3.12	3.19	3.96
TIO2	0.19	0.19	0.14
P205	0.03	0.03	0.03
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.68	99.00	99.00

NORMS	
Q	70.57
C	9.54
OR	19.82
AB	1.54
AN	2.61
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.90
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	0.64
AP	0.07
PO	0.00
NS	0.00
KS	0.00
RU	0.14
AG	0.00
OL	0.00
OPX	1.90
CPX	0.00
AB*	1.54

CLASSIFICATIONS AND INDICES

NA20+K20	3.36	SIO2	84.66	SUBALKALINE		
OL*	1.92	NE*	1.25	Q*	96.83	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	70.01	F	16.33	M	13.66	CALC-ALKALINE
AL203	10.24	NORM PLAG	0.00			THOLEITIC
AN	0.00	AB*	7.22	OR	92.78	K-RICH SERIES
CI	2.53	NORM PLAG	0.00			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.16 FE 5.79 MG 7.05

COLOR INDEX : 2.53
HASHIMOTO INDEX : 95.92

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	-10.00:Y	-10.00:ZR	70.00:NB	20.00:BA	3230.00:AU	20.00:LI	-10.00:BE	-10.00:
B	40.00:SC	3.40:V	30.00:CR	160.00:MN	98.00:CO	-1.00:NI	5.00:CU	7.00:ZN	21.00:
AS	36.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.60:CS	-0.50:LA	1.90:
CE	3.00:ND	-5.00:SM	0.20:EU	-0.20:YB	0.70:LU	0.15:HF	2.00:TA	-1.00:W	-3.00:
PB	16.00:BI	0.50:TH	2.50:U	1.20:GE	-10.00:				

COMMENTS : BRENT-OAK. 3+70W/13+90S. QTZ. CRYSTAL TUFF, 10-15% QTZ. AND 1-6MM. SERICITIZED. YELLOW-WHITE WITH 2 MM. EUHEDRAL PY. BANDS. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17822 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR030 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431965.0 N : 5416135.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 06-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.50	76.94	72.68
AL2O3	12.60	12.84	14.30
FE2O3	2.39	1.76	1.25
FEO	0.00	0.61	0.48
CAO	0.42	0.43	0.43
MGO	2.09	2.13	3.00
NA2O	2.52	2.57	4.70
K2O	2.39	2.44	2.94
TIO2	0.23	0.23	0.17
P2O5	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	98.13	100.00	100.00

NORMS	
Q	46.06
C	5.95
OR	14.69
AB	23.52
AN	1.76
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	6.00
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.93
IL	0.33
CR	0.00
HM	0.63
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	6.00
CPX	0.00
AB*	23.52

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.00 SIO2 76.94 SUBALKALINE
OL* 5.95 NE* 18.67 Q* 75.38 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 53.66 F 23.50 M 22.84 CALC-ALKALINE
AL2O3 12.84 NORM PLAG 6.96 CALC-ALKALINE
AN 4.40 AB* 58.84 OR 36.76 K-RICH SERIES
CI 7.90 NORM PLAG 6.96 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 74.49 FE 9.89 MG 15.62

COLOR INDEX : 7.90
HASHIMOTO INDEX : 60.38

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	40.00:SR	110.00:Y	10.00:ZR	90.00:NB	20.00:BA	890.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	30.00:SC	3.60:V	20.00:CR	92.00:MN	460.00:CO	3.00:NI	9.00:CU	16.00:ZN	66.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	0.60:LA	12.00:
CE	22.00:ND	8.00:SM	1.60:EU	0.50:YB	1.50:LU	0.26:HF	3.00:TA	-1.00:W	-3.00:
PB	10.00:BI	-0.50:TH	3.30:U	2.20:GE	-10.00:				

COMMENTS : CHIP 1. 47+95E/1+10N. POWER LINE. CHLORITE-SERICITE SCHIST, PROBABLY INTERMEDIATE TUFF. 5%, 1-3 MM. QTZ. EYES PLUS 3-5%, 1MM. PLAGIOCLASE, MEDIUM GREEN IN COLOUR. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17823 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR031 PROJECT #
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT :
UTM ZONE : 0 GRID COORDINATES : E : 431825.0 N : 5415915.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 06-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.50	72.17	68.12
AL2O3	14.70	15.05	16.74
FE2O3	3.24	1.87	1.33
FEO	0.00	1.30	1.03
CAO	2.68	2.74	2.77
MGO	1.52	1.56	2.19
NA2O	2.51	2.57	4.70
K2O	2.28	2.33	2.81
TIO2	0.33	0.34	0.24
P2O5	0.07	0.07	0.06
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	97.69	100.00	100.00

NORMS	
Q	37.91
C	3.87
OR	14.07
AB	23.51
AN	13.40
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.38
FS	0.24
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.00
IL	0.48
CR	0.00
HM	0.00
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.62
CPX	0.00
AB*	23.51

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.90 SIO2 72.17 SUBALKALINE

OL* 5.24 NE* 21.36 Q* 73.39 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 51.92 F 31.60 M 16.48 THOLEITIC

AL2O3 15.05 NORM PLAG 36.30 CALC-ALKALINE

AN 26.28 AB* 46.12 OR 27.60 K-RICH SERIES

CI 7.09 NORM PLAG 36.30 DACITE

JENSEN CALC-ALKALINE DACITE
AL 77.77 FE 12.06 MG 10.17

COLOR INDEX : 7.09
HASHIMOTO INDEX : 42.27

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	40.00:SR	260.00:Y	20.00:ZR	140.00:NB	10.00:BA	1000.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	20.00:SC	7.50:V	40.00:CR	71.00:MN	830.00:CO	3.00:NI	6.00:CU	6.50:ZN	65.00:
AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	1.00:LA	16.80:
CE	32.00:ND	12.00:SM	2.90:EU	0.70:YB	2.70:LU	0.45:HF	4.00:TA	-1.00:W	4.00:
PB	8.00:BI	-0.50:TH	4.40:U	2.10:GE	-10.00:				

COMMENTS : FROM CHIP 1 GRID. 47+85E/1+45S. CREAM-BUFF COLOURED TUFF. 5%, 1-3 MM. QTZ. EYES LOCALLY, 5-8%, 1 MM. FELDSPAR FOLIATION.(116/58N) STREAKY OR BLEBBY CHLORITE LENSES 2 BY 20 MM. ALTERED FERROMAGS. XRF, NA ANALYSES ALSO DONE.

SAMPLE ID # AB17824 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR032 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 432010.0 N : 5416200.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 06-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.60	74.97	70.65
AL2O3	14.90	15.18	16.86
FE2O3	2.01	1.79	1.27
FEO	0.00	0.23	0.18
CAO	0.74	0.75	0.76
MGO	0.51	0.52	0.73
NA2O	2.85	2.90	5.30
K2O	3.26	3.32	4.00
TIO2	0.26	0.26	0.19
P2O5	0.07	0.07	0.06
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	98.17	100.00	100.00

NORMS	
Q	40.69
C	6.23
OR	19.98
AB	26.52
AN	3.33
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.46
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.36
CR	0.00
HM	1.27
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.01
AG	0.00
OL	0.00
OPX	1.46
CPX	0.00
AB*	26.52

CLASSIFICATIONS AND INDICES

NA2O+K2O	6.22	SIO2	74.97	SUBALKALINE
OL* 1.59	NE* 23.17	Q*	75.23	SUBALKALINE
CPX 0.00	OL 0.00	OPX	100.00	SUBALKALINE
A 72.49	F 21.46	M	6.05	CALC-ALKALINE
AL2O3	15.18	NORM PLAG	11.16	CALC-ALKALINE
AN 6.68	AB* 53.22	OR	40.10	K-RICH SERIES
CI	3.09	NORM PLAG	11.16	RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.68 FE 8.53 MG 3.79

COLOR INDEX : 3.09
HASHIMOTO INDEX : 51.22

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	70.00:SR	110.00:V	10.00:ZR	100.00:NB	10.00:BA	1270.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	20.00:SC	5.10:V	30.00:CR	110.00:MN	210.00:CO	2.00:NI	5.00:CU	5.50:ZN	40.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	1.20:LA	18.90:
CE	26.00:ND	9.00:SM	2.10:EU	0.50:YB	2.10:LU	0.31:HF	3.00:TA	-1.00:W	-3.00:
PB	12.00:BI	-0.50:TH	3.90:U	2.10:GE	-10.00:				

COMMENTS : CHIP 1. 47+95E/1+90N. LAPILLI TUFF WITH 10% QTZ. CRYSTALS UP TO 6 MM. AND 15% ANGULAR, ALTERED PLAGIOCLASE CRYSTALS, 1-3 MM. PRONOUNCED SERICITE ON FOLIATION. XRF, NA ANALYSES ALSO PERFORMED.

LAB REPORT # 24694 FIELD NUMBER : 85952KR033 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431850.0 N : 5416305.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85 ANALYTICAL
ANALYZED BY : X-RAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.90	75.13	70.73
AL2O3	13.80	14.22	15.78
FE2O3	2.63	1.79	1.27
FEO	0.00	0.83	0.65
CAO	0.67	0.69	0.70
MGO	1.41	1.45	2.04
NA2O	2.96	3.05	5.57
K2O	2.45	2.52	3.04
TIO2	0.24	0.25	0.18
P2O5	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.03	100.00	100.00

NORMS	
Q	41.65
C	5.95
OR	15.18
AB	27.84
AN	3.07
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.08
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.42
IL	0.35
CR	0.00
HM	0.32
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.08
CPX	0.00
AB*	27.84

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.58 SIO2 75.13 SUBALKALINE

OL* 4.16 NE* 22.70 Q* 73.14 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 58.89 F 25.76 M 15.35 CALC-ALKALINE

AL2O3 14.22 NORM PLAG 9.94 CALC-ALKALINE

AN 6.66 AB* 60.40 OR 32.93 K-RICH SERIES

CI 6.17 NORM PLAG 9.94 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 79.24 FE 10.52 MG 10.24

COLOR INDEX : 6.17
HASHIMOTO INDEX : 51.54

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	40.00:SR	170.00:Y	10.00:ZR	100.00:NB	10.00:BA	930.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	30.00:SC	4.40:V	30.00:CR	120.00:MN	480.00:CO	4.00:NI	6.00:CU	96.00:ZN	51.00:
AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	1.10:LA	12.20:
CE	22.00:ND	8.00:SM	1.60:EU	0.50:YB	1.70:LU	0.32:HF	3.00:TA	-1.00:W	3.00:
PB	10.00:BI	-0.50:TH	3.50:U	2.20:GE	-10.00:				

COMMENTS : CHIP 1. 46+25E/2+10N. CHLORITE-SERICITE SCHIST. 5-8% PLAGIOCLASE CRYSTALS WITH RARE QUARTZ-EYES. CORRESPONDS TO ESSO SAMPLE ICP14101,CTS-1. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17826 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR034 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431625.0 N : 5416495.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.10	78.29	74.52
AL2O3	13.00	13.37	15.00
FE2O3	1.50	1.54	1.11
FEO	0.00	0.00	0.00
CAO	0.13	0.13	0.14
MGO	0.94	0.97	1.37
NA2O	1.62	1.67	3.08
K2O	3.70	3.81	4.63
TIO2	0.16	0.16	0.12
P2O5	0.05	0.05	0.04
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.20	100.00	100.00

NORMS	
Q	49.90
C	7.17
OR	23.14
AB	15.38
AN	0.34
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.74
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	1.11
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.12
AG	0.00
OL	0.00
OPX	2.74
CPX	0.00
AB*	15.38

CLASSIFICATIONS AND INDICES

NA2O+K2O	5.47	SIO2	78.29	SUBALKALINE
OL*	3.02	NE*	13.56	Q*	83.41	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	69.91	F	17.74	M	12.35	CALC-ALKALINE
AL2O3	13.37	NORM PLAG	2.14	CALC-ALKALINE
AN	0.86	AB*	39.58	OR	59.55	K-RICH SERIES
CI	3.85	NORM PLAG	2.14	RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.26 FE 6.95 MG 7.79

COLOR INDEX : 3.85
HASHIMOTO INDEX : 72.61

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	80.00:Y	10.00:ZR	60.00:NB	10.00:BA	1020.00:AU	-10.00:LI	10.00:BE	-10.00:
B	30.00:SC	2.00:V	20.00:CR	87.00:MN	170.00:CO	2.00:NI	5.00:CU	7.00:ZN	36.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.90:CS	1.80:LA	13.00:
CE	24.00:ND	8.00:SM	1.50:EU	0.40:YB	1.30:LU	0.25:HF	2.00:TA	-1.00:W	-3.00:
PB	14.00:BI	-0.50:TH	4.60:U	3.40:GE	-10.00:				

COMMENTS : CHIP 1. 43+00E/2+63N. BOWMAN BRIDGE WELL FOLIATED SERICITE SCHIST WITH MINOR CHLORITE-VERY FINE GRAINED, NO VISIBLE QTZ. OR FELDSPAR CRYSTALS. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17827 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR035 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431360.0 N : 5416695.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	56.30	59.21	56.11
AL2O3	16.40	17.25	19.27
FE2O3	11.50	2.80	2.00
FEO	0.00	8.37	6.63
CAO	0.38	0.40	0.41
MGO	4.53	4.76	6.73
NA2O	1.43	1.50	2.76
K2O	3.79	3.99	4.82
TIO2	1.16	1.22	0.87
P2O5	0.30	0.32	0.25
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.24	0.00	0.00
TOTAL	95.08	100.00	100.00

NORMS	
Q	21.74
C	11.71
OR	24.12
AB	13.82
AN	0.04
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	13.46
FS	9.83
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.99
IL	1.74
CR	0.00
HM	0.00
AP	0.68
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	23.29
CPX	0.00
AB*	13.82

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.49 SIO2 59.21 SUBALKALINE

OL* 29.68 NE* 14.09 Q* 56.23 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 25.97 F 51.49 M 22.54 THOLEITIC

AL2O3 17.25 NORM PLAG 0.00 CALC-ALKALINE

AN 0.00 AB* 36.42 OR 63.58 K-RICH SERIES

CI 28.02 NORM PLAG 0.00 DACITE

JENSEN CALC-ALKALINE BASALT
AL 54.06 FE 27.07 MG 18.88

COLOR INDEX : 28.02
HASHIMOTO INDEX : 82.13

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	100.00:SR	20.00:Y	20.00:ZR	20.00:NB	20.00:BA	490.00:AU	10.00:LI	10.00:BE	-10.00:
B	40.00:SC	39.00:V	430.00:CR	67.00:MN	0.00:CO	47.00:NI	41.00:CU	71.00:ZN	130.00:
AS	-6.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	1.50:CS	2.40:LA	5.70:
CE	21.00:ND	9.00:SM	2.60:EU	0.60:YB	2.00:LU	0.30:HF	1.00:TA	-1.00:W	-4.00:
PB	12.00:BI	-0.50:TH	0.60:U	1.20:GE	-10.00:				

COMMENTS : CHIP 1. ESSO COORDINATES 3960E/310N. SCHISTOSE CHLORITIC ROCK NO VISIBLE QTZ. OR FELDSPAR CRYSTALS. XRF, NA ALSO PERFORMED.

SAMPLE ID # AB17828 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR036 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431085.0 N : 5416950.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.40	77.08	73.18
AL2O3	13.90	14.21	15.90
FE2O3	2.04	1.73	1.23
FEO	0.00	0.32	0.26
CAO	0.06	0.06	0.06
MGO	1.58	1.62	2.29
NA2O	1.80	1.84	3.39
K2O	2.86	2.92	3.54
TIO2	0.19	0.19	0.14
P2O5	0.02	0.02	0.02
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	97.81	100.00	100.00

NORMS	
Q	50.03
C	8.90
OR	17.72
AB	16.93
AN	0.17
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.57
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.35
IL	0.28
CR	0.00
HM	1.00
AP	0.04
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.57
CPX	0.00
AB*	16.93

CLASSIFICATIONS AND INDICES

NA2O+K2O	4.76	SIO2	77.08	SUBALKALINE		
OL*	4.79	NE*	14.20	Q*	81.00	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	57.70	F	22.73	M	19.57	CALC-ALKALINE
AL2O3	14.21	NORM PLAG	1.02	CALC-ALKALINE		
AN	0.50	AB*	48.61	OR	50.88	K-RICH SERIES
CI	6.20	NORM PLAG	1.02	RHYOLITE		

JENSEN CALC-ALKALINE RHYOLITE
AL 80.25 FE 8.22 MG 11.53

COLOR INDEX : 6.20
HASHIMOTO INDEX : 70.48

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	40.00:SR	140.00:Y	10.00:ZR	80.00:NB	10.00:BA	1060.00:AU	-10.00:LI	10.00:BE	-10.00:
B	30.00:SC	3.00:V	20.00:CR	100.00:MN	250.00:CO	3.00:NI	4.00:CU	8.00:ZN	56.00:
AS	2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	1.80:LA	14.50:
CE	26.00:ND	8.00:SM	1.60:EU	0.40:YB	1.60:LU	0.31:HF	3.00:TA	-1.00:W	-3.00:
PB	8.00:BI	-0.50:TH	5.80:U	2.30:GE	-10.00:				

COMMENTS : CHIP 1. ESSO COORDINATES 3650E/400N. STRONGLY FOLIATED SERICITIC SCHIST WITH TALCOSE FEEL. WAVY FOLIATION. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17829 WHOLE ROCK GEOCHEMICAL ANALYSIS -

LAB REPORT # 24694 FIELD NUMBER : 85952KR037 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430990.0 N : 5417025.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.90	73.98	68.09
AL2O3	15.80	16.03	17.39
FE2O3	1.40	1.42	0.98
FEO	0.00	0.00	0.00
CAO	0.28	0.28	0.28
MGO	0.67	0.68	0.93
NA2O	5.67	5.75	10.27
K2O	1.57	1.59	1.87
TIO2	0.19	0.19	0.13
P2O5	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.47	0.00	0.00
TOTAL	98.54	100.00	100.00

NORMS	
Q	30.33
C	4.85
OR	9.36
AB	51.33
AN	1.00
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.87
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	0.98
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.13
AG	0.00
OL	0.00
OPX	1.87
CPX	0.00
AB*	51.33

CLASSIFICATIONS AND INDICES

NA2O+K2O	7.35	SIO2	73.98	SUBALKALINE		
OL*	1.67	NE*	36.87	Q*	61.45	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	78.96	F	13.74	M	7.31	CALC-ALKALINE
AL2O3	16.03	NORM PLAG	1.92			CALC-ALKALINE
AN	1.63	AB*	83.20	OR	15.18	AVERAGE SERIES
CI	2.85	NORM PLAG	1.92			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 89.46 FE 5.75 MG 4.80

COLOR INDEX : 2.85
HASHIMOTO INDEX : 27.35

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	40.00:SR	120.00:Y	30.00:ZR	140.00:NB	10.00:BA	1040.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	30.00:SC	5.60:V	70.00:CR	120.00:MN	92.00:CO	2.00:NI	9.00:CU	15.00:ZN	42.00:
AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.50:CS	0.90:LA	15.40:
CE	29.00:ND	11.00:SM	2.30:EU	0.60:YB	2.40:LU	0.40:HF	4.00:TA	-1.00:W	-3.00:
PB	12.00:BI	-0.50:TH	4.40:U	2.50:GE	-10.00:				

COMMENTS : CHIP 1. ESSO COORDINATES 34+80E/425N. HIGHLY SERICITIC SCHIST WITH WAXY FEEL. HIGHLY FISSILE. BLEBBY TO STREAKY CHLORITE. VISIBLE QUARTZ EYES. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17830 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR038 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430850.0 N : 5417175.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.00	76.59	73.19
AL2O3	14.20	14.70	16.55
FE2O3	2.60	1.82	1.31
FEO	0.00	0.78	0.63
CAO	0.07	0.07	0.07
MGO	1.50	1.55	2.21
NA2O	1.11	1.15	2.13
K2O	2.90	3.00	3.66
TIO2	0.26	0.27	0.19
P2O5	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.85	0.00	0.00
TOTAL	96.62	100.00	100.00

NORMS	
Q	53.62
C	10.78
OR	18.32
AB	10.64
AN	0.02
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.42
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.30
IL	0.39
CR	0.00
HM	0.45
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.42
CPX	0.00
AB*	10.64

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.15 SIO2 76.59 SUBALKALINE

OL* 4.83 NE* 9.30 Q* 85.88 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 51.09 F 29.80 M 19.11 CALC-ALKALINE

AL2O3 14.70 NORM PLAG 0.00 CALC-ALKALINE

AN 0.00 AB* 36.75 OR 63.25 K-RICH SERIES

CI 6.55 NORM PLAG 0.00 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 79.23 FE 10.19 MG 10.58

COLOR INDEX : 6.55
HASHIMOTO INDEX : 78.85

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	70.00:SR	70.00:Y	10.00:ZR	100.00:NB	10.00:BA	1300.00:AU	-10.00:LI	20.00:BE	-10.00:
B	40.00:SC	5.30:V	20.00:CR	100.00:MN	540.00:CO	5.00:NI	6.00:CU	35.00:ZN	50.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.40:CS	1.00:LA	13.50:
CE	24.00:ND	9.00:SM	1.80:EU	0.50:YB	1.50:LU	0.26:HF	3.00:TA	-1.00:W	-3.00:
PB	16.00:BI	-0.50:TH	4.00:U	2.00:GE	-10.00:				

COMMENTS : CHIP 1. ESSO COORDS. 33+25E/4+75N. PALE GREEN SERICITE SCHIST WITH FINE GRAINED FELDSPAR CRYSTALS. KINK FOLDED. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17831 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR039 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431130.0 N : 5416160.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.60	54.42	49.23
AL2O3	16.80	17.38	18.53
FE2O3	9.25	2.34	1.59
FEO	0.00	6.51	4.92
CAO	4.34	4.49	4.35
MGO	7.34	7.59	10.24
NA2O	5.28	5.46	9.58
K2O	0.60	0.62	0.72
TIO2	0.76	0.79	0.53
P2O5	0.21	0.22	0.17
MNO	0.17	0.18	0.13
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.00	0.00	0.00
TOTAL	96.65	100.00	100.00

NORMS	
Q	0.00
C	0.09
OR	3.59
AB	47.90
AN	20.37
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	9.40
FS	3.42
FO	8.31
FA	3.02
WO	0.00
LN	0.00
MT	2.39
IL	1.07
CR	0.00
HM	0.00
AP	0.44
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	11.33
OPX	12.82
CPX	0.00
AB*	47.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.08 SIO2 54.42 SUBALKALINE

OL* 29.07 NE* 39.89 Q* 31.04 SUBALKALINE

CPX 0.00 OL 46.92 OPX 53.08 SUBALKALINE

A 27.29 F 38.63 M 34.07 THOLEITIC

AL2O3 17.38 NORM PLAG 29.84 CALC-ALKALINE

AN 28.35 AB* 66.66 OR 4.99 K-POOR SERIES

CI 27.61 NORM PLAG 29.84 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 51.54 FE 19.98 MG 28.47

COLOR INDEX : 27.61
HASHIMOTO INDEX : 45.22

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	20.00:SR	250.00:Y	10.00:ZR	40.00:NB	30.00:BA	310.00:AU	10.00:LI	30.00:BE	-10.00:
B	40.00:SC	33.00:V	260.00:CR	140.00:MN	0.00:CO	33.00:NI	63.00:CU	98.00:ZN	150.00:
AS	-2.00:SE	-3.00:BR	2.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	-0.70:LA	9.40:
CE	22.00:ND	13.00:SM	3.00:EU	1.00:YB	2.10:LU	0.31:HF	1.00:TA	-1.00:W	-3.00:
PB	12.00:BI	-0.50:TH	1.20:U	-0.50:GE	-10.00:				

COMMENTS : CHIP 1. ESSO COORDS. 40+10E/2+50S. WEAKLY FOLIATED, MASSIVE, MAFIC, MAY BE FINE GRAINED FLOW OR DIKE. CHIPMAN CREEK INTERSECTION. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17832 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR040 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430650.0 N : 5416830.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.20	74.70	69.76
AL2O3	14.00	14.29	15.73
FE2O3	2.17	1.77	1.24
FEO	0.00	0.40	0.32
CAO	0.52	0.53	0.53
MGO	0.73	0.75	1.04
NA2O	3.99	4.07	7.37
K2O	3.11	3.17	3.79
TIO2	0.23	0.23	0.16
P2O5	0.08	0.08	0.06
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.62	0.00	0.00
TOTAL	97.99	100.00	100.00

NORMS	
Q	34.41
C	3.72
OR	18.93
AB	36.86
AN	2.12
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.07
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.45
IL	0.33
CR	0.00
HM	0.94
AP	0.17
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.07
CPX	0.00
AB*	36.86

CLASSIFICATIONS AND INDICES

NA2O+K2O	7.25	SIO2		74.70	SUBALKALINE
OL*	2.12	NE*	30.16	Q* 67.72	SUBALKALINE
CPX	0.00	OL	0.00	OPX 100.00	SUBALKALINE
A	72.58	F	19.96	M 7.46	CALC-ALKALINE
AL2O3	14.29	NORM PLAG		5.43	CALC-ALKALINE
AN	3.65	AB*	63.66	OR 32.69	K-RICH SERIES
CI	3.79	NORM PLAG		5.43	RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.08 FE 9.31 MG 5.61

COLOR INDEX : 3.79
HASHIMOTO INDEX : 45.99

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	60.00:SR	90.00:Y	-10.00:ZR	90.00:NB	10.00:BA	920.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	30.00:SC	3.30:V	20.00:CR	75.00:MN	430.00:CO	3.00:NI	5.00:CU	9.00:ZN	44.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	0.80:LA	16.70:
CE	28.00:ND	9.00:SM	1.80:EU	0.60:YB	1.40:LU	0.25:HF	3.00:TA	-1.00:W	-3.00:
PB	12.00:BI	-0.50:TH	4.50:U	2.70:GE	-10.00:				

COMMENTS : CHIP 1. ESSO COORDINATES 33+05E/0+80N. CHLORITIC-SERICITIC SCHIST, NO VISIBLE QUARTZ OR FELDSPAR CRYSTALS.
INTERMEDIATE TO MAFIC. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17833 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR041 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430880.0 N : 5416470.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,EPIDOTIZATION ,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 07-JUN-85 ANALYTICAL
ANALYZED BY : X-RAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	62.60	64.42	59.42
AL2O3	16.90	17.39	18.91
FE2O3	5.05	1.99	1.38
FEO	0.00	2.89	2.23
CAO	3.66	3.77	3.72
MGO	2.75	2.83	3.89
NA2O	4.58	4.71	8.43
K2O	1.23	1.27	1.49
TIO2	0.43	0.44	0.31
P2O5	0.13	0.13	0.10
MNO	0.15	0.15	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.77	0.00	0.00
TOTAL	97.17	100.00	100.00

NORMS	
Q	17.32
C	1.89
OR	7.46
AB	42.14
AN	17.74
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	7.78
FS	2.71
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.07
IL	0.61
CR	0.00
HM	0.00
AP	0.28
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	10.49
CPX	0.00
AB*	42.14

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.98 SIO2 64.42 SUBALKALINE

OL* 11.24 NE* 36.15 Q* 52.61 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 44.34 F 34.68 M 20.99 THOLEITIC

AL2O3 17.39 NORM PLAG 29.63 CALC-ALKALINE

AN 26.35 AB* 62.58 OR 11.07 AVERAGE SERIES

CI 13.17 NORM PLAG 29.63 ANDESITE

JENSEN CALC-ALKALINE DACITE
AL 70.47 FE 15.04 MG 14.50

COLOR INDEX : 13.17
HASHIMOTO INDEX : 32.57

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	20.00:SR	140.00:Y	20.00:ZR	90.00:NB	10.00:BA	610.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	50.00:SC	16.00:V	70.00:CR	100.00:MN	0.00:CO	10.00:NI	17.00:CU	7.00:ZN	130.00:
AS	3.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.50:CS	-0.50:LA	14.70:
CE	29.00:ND	14.00:SM	3.20:EU	0.90:YB	3.00:LU	0.50:HF	3.00:TA	-1.00:W	-3.00:
PB	14.00:BI	-0.50:TH	3.30:U	1.70:GE	-10.00:				

COMMENTS : CHIP 1. ESSO COORDINATES 35+75E/1+40S. MASSIVE FLOW. PREVIOUSLY MAPPED AS GABBRO. ALL PLAGIOCLASE SAUSSERITIZED. EXTENSIVE QUARTZ-CARBONATE STRINGERS. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17834 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR042 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431890.0 N : 5416145.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 12-JUN-85 ANALYTICAL
ANALYZED BY : X-RAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	73.70	75.67	71.43
AL203	13.90	14.27	15.88
FE203	2.38	1.79	1.27
FEO	0.00	0.59	0.47
CAO	0.10	0.10	0.10
MGO	1.72	1.77	2.48
NA20	2.36	2.42	4.43
K20	3.00	3.08	3.71
TI02	0.24	0.25	0.17
P205	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	97.40	100.00	100.00

NORMS	
Q	44.46
C	7.69
OR	18.57
AB	22.17
AN	0.11
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.97
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.88
IL	0.35
CR	0.00
HM	0.69
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.97
CPX	0.00
AB*	22.17

CLASSIFICATIONS AND INDICES

NA20+K20	5.50	SI02	75.67	SUBALKALINE		
OL*	5.20	NE*	18.58	Q*	76.22	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	58.12	F	23.22	M	18.65	CALC-ALKALINE
AL203	14.27	NORM PLAG	0.49			CALC-ALKALINE
AN	0.26	AB*	54.28	OR	45.46	K-RICH SERIES
CI	6.88	NORM PLAG	0.49			RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 78.32 FE 9.42 MG 12.25

COLOR INDEX : 6.88
HASHIMOTO INDEX : 65.74

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	70.00:Y	10.00:ZR	100.00:NB	10.00:BA	1090.00:AU	-10.00:LI	10.00:BE	-10.00:
B	20.00:SC	4.30:V	30.00:CR	77.00:MN	280.00:CO	4.00:NI	5.00:CU	10.00:ZN	51.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	1.20:LA	12.20:
CE	21.00:ND	9.00:SM	1.50:EU	-0.20:YB	1.60:LU	0.29:HF	3.00:TA	-1.00:W	-3.00:
PB	6.00:BI	-0.50:TH	3.50:U	2.00:GE	-10.00:				

COMMENTS : CHIP 1. 46+95E/85N. PALE GREEN SCHIST, 20% EUHEDRAL 2 MM. FELDSPARS, 3-5% ROUNDED AND ELONGATE QTZ. EYES. WEAKLY CHLORITIC, ABUNDANT SERICITE. XRF, NA ANALYSES ALSO DONE.

SAMPLE ID # AB17840 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR049 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430920.0 N : 5415731.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,MEDIUM,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 16-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.20	50.77	47.63
AL2O3	14.60	15.07	16.66
FE2O3	11.90	3.20	2.26
FEO	0.00	8.17	6.41
CAO	10.60	10.94	11.00
MGO	6.80	7.02	9.81
NA2O	2.17	2.24	4.07
K2O	0.59	0.61	0.73
TIO2	1.60	1.65	1.16
P2O5	0.15	0.15	0.12
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	96.91	100.00	100.00

NORMS	
Q	2.43
C	0.00
OR	3.65
AB	20.36
AN	29.64
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	13.55
HE	5.89
EN	12.84
FS	5.58
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.39
IL	2.33
CR	0.00
HM	0.00
AP	0.33
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	18.43
CPX	19.44
AB*	20.36

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.85 SIO2 50.77 SUBALKALINE

OL* 33.53 NE* 29.64 Q* 36.83 SUBALKALINE

CPX 51.34 OL 0.00 OPX 48.66 SUBALKALINE

A 13.62 F 52.83 M 33.55 THOLEITIC

AL2O3 15.07 NORM PLAG 59.28 THOLEITIC

AN 55.25 AB* 37.95 OR 6.80 AVERAGE SERIES

CI 43.59 NORM PLAG 59.28 BASALT

JENSEN HIGH IRON THOLEIITIC BASALT
AL 45.70 FE 27.38 MG 26.91

COLOR INDEX : 43.59
HASHIMOTO INDEX : 36.66

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	10.00:SR	260.00:Y	20.00:ZR	90.00:NB	30.00:BA	430.00:AU	-10.00:LI	10.00:BE	-10.00:
B	50.00:SC	43.00:V	360.00:CR	220.00:MN	0.00:CO	46.00:NI	130.00:CU	190.00:ZN	110.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.40:CS	1.60:LA	9.10:
CE	24.00:ND	11.00:SM	3.70:EU	1.10:YB	2.50:LU	0.37:HF	2.00:TA	1.00:W	-3.00:
PB	8.00:BI	-0.50:TH	-0.50:U	-0.50:GE	-10.00:				

COMMENTS : CHIP 1. 40+60E/7+30S. MEDIUM GRAINED GABBRO WITH 1-6 MM. EUHEDRAL PLAGIOCLASE PHENOCRYSTS. 1-2 MM. MAFIC EUHEDRAL CRYSTALS. MINOR ALTERATION OF PLAGIOCLASE BOUNDARIES. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17841 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR050 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 431115.0 N : 5416175.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : K. RYE. DATE : 16-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.60	76.08	72.93
AL2O3	13.50	13.95	15.77
FE2O3	3.06	1.84	1.33
FEO	0.00	1.19	0.95
CAO	0.69	0.71	0.73
MGO	1.76	1.82	2.60
NA2O	0.73	0.75	1.40
K2O	3.18	3.29	4.02
TIO2	0.28	0.29	0.21
P2O5	0.07	0.07	0.06
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.08	0.00	0.00
TOTAL	96.74	100.00	100.00

NORMS	
Q	52.70
C	9.07
OR	20.12
AB	7.01
AN	3.17
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.20
FS	0.16
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.99
IL	0.42
CR	0.00
HM	0.00
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.36
CPX	0.00
AB*	7.01

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.04 SIO2 76.08 SUBALKALINE

OL* 6.18 NE* 6.47 Q* 87.35 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 46.42 F 32.69 M 20.89 THOLEITIC

AL2O3 13.95 NORM PLAG 31.15 THOLEITIC

AN 10.47 AB* 23.14 OR 66.39 K-RICH SERIES

CI 7.77 NORM PLAG 31.15 DACITE

JENSEN CALC-ALKALINE DACITE
AL 75.60 FE 11.94 MG 12.46

COLOR INDEX : 7.77
HASHIMOTO INDEX : 77.67

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	50.00:Y	-10.00:ZR	80.00:NB	20.00:BA	1250.00:AU	30.00:LI	10.00:BE	-10.00:
B	60.00:SC	4.80:V	50.00:CR	92.00:MN	380.00:CO	1.00:NI	6.00:CU	52.00:ZN	64.00:
AS	11.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	1.00:CS	2.60:LA	9.00:
CE	18.00:ND	-5.00:SM	1.00:EU	0.40:YB	1.20:LU	0.24:HF	2.00:TA	-1.00:W	-3.00:
PB	12.00:BI	-0.50:TH	4.00:U	2.40:GE	-10.00:				

COMMENTS : BESIDE AB17831. ESSO GRID 40+20E/2+50S. STRONGLY FOLIATED SERICITIC SCHIST WITH MINOR PY. IRREGULAR CONTACT WITH CHLORITE UNIT. POSSIBLE FAULT OR INTRUSIVE CONTACT. ESSO SAMPLE 3E-4100, ICP-14115, CTS-28. XRF,NA ALSO DONE.

SAMPLE ID # AB17847 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR056 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 435082.0 N : 5415481.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 19-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.30	75.78	72.44
AL2O3	13.70	14.16	15.96
FE2O3	3.83	1.80	1.29
FEO	0.00	1.94	1.55
CAO	0.26	0.27	0.28
MGO	0.73	0.75	1.08
NA2O	1.72	1.78	3.30
K2O	3.01	3.11	3.80
TIO2	0.24	0.25	0.18
P2O5	0.15	0.16	0.13
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.73	100.00	100.00

NORMS	
Q	49.22
C	8.73
OR	19.00
AB	16.48
AN	0.33
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.15
FS	1.46
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.94
IL	0.36
CR	0.00
HM	0.00
AP	0.34
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.61
CPX	0.00
AB*	16.48

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.89 SIO2 75.78 SUBALKALINE

OL* 3.90 NE* 14.26 Q* 81.83 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 53.11 F 38.69 M 8.20 THOLEITIC

AL2O3 14.16 NORM PLAG 1.96 CALC-ALKALINE

AN 0.92 AB* 46.02 OR 53.06 K-RICH SERIES

CI 5.91 NORM PLAG 1.96 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 79.55 FE 15.09 MG 5.36

COLOR INDEX : 5.91
HASHIMOTO INDEX : 65.38

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	50.00:SR	90.00:Y	30.00:ZR	110.00:NB	30.00:BA	1230.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	50.00:SC	4.40:V	40.00:CR	120.00:MN	960.00:CO	8.00:NI	6.00:CU	11.00:ZN	92.00:
AS	2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.40:CS	1.50:LA	25.70:
CE	43.00:ND	14.00:SM	3.20:EU	0.80:YB	2.00:LU	0.37:HF	3.00:TA	-1.00:W	-3.00:
PB	78.00:BI	-0.50:TH	7.70:U	3.80:GE	-10.00:				

COMMENTS : BRENT-OAK ROAD TRAVERSE WEST OF SILVER CREEK. CHLORITIC SCHIST IN A SEQUENCE OF INTERBEDDED CHLORITE SCHISTS AND COURSE QTZ.-SERICITE SCHISTS (QTZ.-LAPILLI TUFFS). XRF, NA ANALYSES ALSO DONE.

SAMPLE ID # AB17848 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR057 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 434387.0 N : 5415192.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 19-JUN-85 ANALYTICAL
ANALYZED BY : X-RAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	68.00	72.03	67.95
AL2O3	12.40	13.14	14.61
FE2O3	2.72	1.81	1.29
FEO	0.00	0.96	0.76
CAO	4.39	4.65	4.70
MGO	2.42	2.56	3.60
NA2O	2.11	2.24	4.09
K2O	2.19	2.32	2.80
TIO2	0.21	0.22	0.16
P2O5	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.85	0.00	0.00
TOTAL	94.40	100.00	100.00

NORMS	
Q	35.22
C	0.00
OR	13.98
AB	20.44
AN	19.31
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	3.02
HE	0.00
EN	5.70
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.81
IL	0.32
CR	0.00
HM	0.08
AP	0.14
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.70
CPX	3.02
AB*	20.44

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.56 SIO2 72.03 SUBALKALINE

OL* 6.97 NE* 19.99 Q* 73.05 SUBALKALINE

CPX 34.62 OL 0.00 OPX 65.38 SUBALKALINE

A 46.91 F 26.70 M 26.40 CALC-ALKALINE

AL2O3 13.14 NORM PLAG 48.58 THOLEITIC

AN 35.94 AB* 38.05 OR 26.01 K-RICH SERIES

CI 10.92 NORM PLAG 48.58 HIGH ALUMINA ANDESITE

JENSEN CALC-ALKALINE DACITE
AL 71.55 FE 10.79 MG 17.66

COLOR INDEX : 10.92
HASHIMOTO INDEX : 41.49

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	50.00:SR	300.00:Y	-10.00:ZR	90.00:NB	20.00:BA	870.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	20.00:SC	3.70:V	30.00:CR	67.00:MN	470.00:CO	5.00:NI	6.00:CU	2.00:ZN	45.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.20:CS	0.90:LA	12.10:
CE	23.00:ND	6.00:SM	1.70:EU	0.60:YB	1.60:LU	0.31:HF	2.00:TA	-1.00:W	-3.00:
PB	4.00:BI	-0.50:TH	3.30:U	1.50:GE	-10.00:				

COMMENTS : BRENT-OAK. WEST TRAVERSE JUST WEST OF GRID. CHLORITE-SERICITE SCHIST WITH 5%, 1 MM. QTZ. EYES. PAPERY O/C. WAVY FOLIATION (105/90). XRF. NA ANALYSES ALSO DONE.

SAMPLE ID # AB17849 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR058 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 434318.0 N : 5415250.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 19-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.80	75.27	70.75
AL2O3	12.40	13.00	14.40
FE2O3	1.60	1.68	1.19
FEO	0.00	0.00	0.00
CAO	2.87	3.01	3.03
MGO	1.38	1.45	2.03
NA2O	3.06	3.21	5.85
K2O	2.06	2.16	2.59
TIO2	0.17	0.18	0.13
P2O5	0.05	0.05	0.04
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.00	0.00	0.00
TOTAL	95.39	100.00	100.00

NORMS	
Q	37.49
C	0.04
OR	12.96
AB	29.23
AN	14.80
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.05
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	1.19
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.13
AG	0.00
OL	0.00
OPX	4.05
CPX	0.00
AB*	29.23

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.37 SIO2 75.27 SUBALKALINE

OL* 4.30 NE* 24.78 Q* 70.92 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 64.49 F 18.13 M 17.38 CALC-ALKALINE

AL2O3 13.00 NORM PLAG 33.62 THOLEITIC

AN 25.97 AB* 51.28 OR 22.74 AVERAGE SERIES

CI 5.24 NORM PLAG 33.62 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.18 FE 7.40 MG 11.42

COLOR INDEX : 5.24
HASHIMOTO INDEX : 36.71

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	40.00:SR	200.00:Y	10.00:ZR	100.00:NB	10.00:BA	690.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	30.00:SC	1.70:V	10.00:CR	130.00:MN	690.00:CO	2.00:NI	6.00:CU	2.00:ZN	35.00:
AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.20:CS	2.00:LA	14.10:
CE	29.00:ND	10.00:SM	2.30:EU	0.80:YB	1.90:LU	0.36:HF	3.00:TA	1.00:W	-3.00:
PB	8.00:BI	-0.50:TH	2.60:U	2.00:GE	-10.00:				

COMMENTS : BRENT-OAK. WEST TRAVERSE. SERICITE SCHIST 5 METRES THICK IN INTERBEDDED SS-CSS UNIT. NO VISIBLE PHENOCRYSTS. TALCOSE FEEL. NO SULPHIDES. XRF, NA ANALYSES ALSO PERFORMED.

SAMPLE ID # AB17850 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24694 FIELD NUMBER : 85952KR059 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 434249.0 N : 5415355.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 19-JUN-85 ANALYTICAL
ANALYZED BY : X-RAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.20	74.97	71.18
AL2O3	14.50	14.85	16.62
FE2O3	2.33	1.80	1.29
FEO	0.00	0.53	0.42
CAO	2.32	2.38	2.42
MGO	1.31	1.34	1.90
NA2O	2.06	2.11	3.88
K2O	1.66	1.70	2.06
TIO2	0.26	0.27	0.19
P2O5	0.05	0.05	0.04
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	97.63	100.00	100.00

NORMS	
Q	46.75
C	5.98
OR	10.31
AB	19.42
AN	11.74
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.80
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.68
IL	0.38
CR	0.00
HM	0.83
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.80
CPX	0.00
AB*	19.42

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.81 SIO2 74.97 SUBALKALINE
OL* 4.07 NE* 16.65 Q* 79.28 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 52.20 F 29.42 M 18.38 CALC-ALKALINE
AL2O3 14.85 NORM PLAG 37.68 THOLEITIC
AN 28.32 AB* 46.83 OR 24.86 K-RICH SERIES
CI 5.69 NORM PLAG 37.68 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.42 FE 9.28 MG 9.30

COLOR INDEX : 5.69
HASHIMOTO INDEX : 40.41

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	50.00:SR	390.00:Y	-10.00:ZR	110.00:NB	-10.00:BA	1350.00:AU	-10.00:LI	-10.00:BE	-10.00:
B	30.00:SC	5.20:V	30.00:CR	85.00:MN	400.00:CO	2.00:NI	6.00:CU	11.00:ZN	40.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.40:CS	0.80:LA	15.70:
CE	27.00:ND	7.00:SM	1.90:EU	0.30:YB	1.70:LU	0.29:HF	3.00:TA	-1.00:W	-3.00:
PB	4.00:BI	-0.50:TH	3.70:U	2.60:GE	-10.00:				

COMMENTS : BRENT-OAK WEST ROAD TRAVERSE. 18-40% FELDSPAR PHENOCRYSTS IN CHLORITIC-SERICITE SCHIST, MUCH LIKE THE SCHIST ON CHIP 1
POWER LINE. NO SULPHIDES. XRF. NA ANALYSES ALSO DONE.

LAB REPORT # 24694 FIELD NUMBER : 85952KR061 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 434662.0 N : 5414440.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : K. RYE. DATE : 17-JUN-85
ANALYZED BY : X-RAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	78.70	81.60	78.81
AL2O3	11.70	12.13	13.81
FE2O3	1.21	1.25	0.91
FEO	0.00	0.00	0.00
CAO	0.01	0.01	0.01
MGO	0.95	0.98	1.42
NA2O	0.25	0.26	0.49
K2O	3.45	3.58	4.41
TIO2	0.15	0.16	0.11
P2O5	0.03	0.03	0.03
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	96.45	100.00	100.00

NORMS	
Q	62.76
C	8.98
OR	22.06
AB	2.43
AN	0.08
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.84
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	0.91
AP	0.07
PO	0.00
NS	0.00
KS	0.00
RU	0.11
AG	0.00
OL	0.00
OPX	2.84
CPX	0.00
AB*	2.43

CLASSIFICATIONS AND INDICES

NA2O+K2O	3.84	SIO2	81.60	SUBALKALINE		
OL*	3.13	NE*	2.14	Q*	94.73	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	64.47	F	18.97	M	16.55	CALC-ALKALINE
AL2O3	12.13	NORM PLAG	0.00			CALC-ALKALINE
AN	0.00	AB*	9.91	OR	90.09	K-RICH SERIES
CI	3.75	NORM PLAG	0.00			RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 84.97 FE 6.31 MG 8.72

COLOR INDEX : 3.75
HASHIMOTO INDEX : 94.42

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

RB	70.00:SR	40.00:Y	10.00:ZR	80.00:NB	-10.00:BA	3390.00:AU	10.00:LI	-10.00:BE	-10.00:
B	20.00:SC	3.10:V	-10.00:CR	96.00:MN	58.00:CO	1.00:NI	4.00:CU	12.00:ZN	25.00:
AS	2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	-0.20:CS	0.50:LA	19.20:
CE	40.00:ND	12.00:SM	3.00:EU	0.50:YB	2.50:LU	0.41:HF	3.00:TA	-1.00:W	-3.00:
PB	6.00:BI	-0.50:TH	4.60:U	2.50:GE	-10.00:				

COMMENTS : OAK 3 ROAD TRAVERSE, JUST WEST OF 49W/560S. VERY FRESH WHITE FELSIC ROCK, POSSIBLY ASH TUFF, MODERATELY FOLIATED, GOSSANOUS UP TO 5% BRASSY PY LOCALLY AVERAGES 2%

SAMPLE ID # AB17863 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR072 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 432100.0 N : 5416055.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 26-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.70	76.27	72.24
AL2O3	13.50	13.78	15.39
FE2O3	2.66	1.78	1.27
FEO	0.00	0.85	0.67
CAO	0.26	0.27	0.27
MGO	1.62	1.65	2.33
NA2O	2.28	2.33	4.27
K2O	2.67	2.73	3.30
TIO2	0.24	0.25	0.17
P2O5	0.06	0.06	0.05
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	97.95	100.00	100.00

NORMS	
Q	46.81
C	7.44
OR	16.49
AB	21.37
AN	0.94
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.67
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.57
IL	0.35
CR	0.01
HM	0.22
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.67
CPX	0.00
AB*	21.37

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.05 SIO2 76.27 SUBALKALINE

OL* 4.81 NE* 17.60 Q* 77.59 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 55.22 F 26.70 M 18.07 CALC-ALKALINE

AL2O3 13.78 NORM PLAG 4.20 CALC-ALKALINE

AN 2.41 AB* 55.09 OR 42.50 K-RICH SERIES

CI 6.81 NORM PLAG 4.20 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 77.46 FE 10.79 MG 11.75

COLOR INDEX : 6.81
HASHIMOTO INDEX : 62.81

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	50.00:SR	100.00:Y	20.00:ZR	100.00:NB	10.00:BA	1150.00:

COMMENTS : CHIP 1. 49+25E/1+25N. PALE GREEN SERICITE-CHLORITE SCHIST,5% 2 MM. QTZ. EYES AND 3-5% PLAGIOCLASE CRYSTALS. LIES NEAR THE FELDSPAR RICH CRYSTAL TUFF UNIT BUT SAMPLE DOES NOT APPEAR TO BE PART OF IT. XRF, NA ALSO DONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17864 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR073 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 432125.0 N : 5416155.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,PLAGIOCLASE ,QUARTZ,SCHIST.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 26-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SI02	73.90	75.69	71.47	Q	45.51
AL203	14.00	14.34	15.96	C	7.95
FE203	2.65	1.79	1.27	OR	14.76
FEO	0.00	0.83	0.65	AB	24.09
CAO	0.18	0.18	0.19	AN	0.59
MGO	1.67	1.71	2.41	LC	0.00
NA2O	2.57	2.63	4.82	NE	0.00
K2O	2.39	2.45	2.95	KP	0.00
TI02	0.25	0.26	0.18	AC	0.00
P2O5	0.05	0.05	0.04	DI	0.00
MNO	0.06	0.06	0.05	HE	0.00
S	0.00	0.00	0.00	EN	4.81
NIO	0.00	0.00	0.00	FS	0.00
CR203	0.01	0.01	0.01	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.23	0.00	0.00	MT	1.56
				IL	0.36
TOTAL	97.64	100.00	100.00	CR	0.01
				HM	0.24
				AP	0.11
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	4.81
				CPX	0.00
				AB*	24.09

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.08 SIO2 75.69 SUBALKALINE
OL* 4.85 NE* 19.42 Q* 75.72 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 55.02 F 26.45 M 18.53 CALC-ALKALINE
AL203 14.34 NORM PLAG 2.39 CALC-ALKALINE
AN 1.50 AB* 61.08 OR 37.42 K-RICH SERIES
CI 6.97 NORM PLAG 2.39 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 77.75 FE 10.52 MG 11.73

COLOR INDEX : 6.97
HASHIMOTO INDEX : 59.62

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P,P.B.)

CR 0.00:RB	70.00:SR	110.00:Y	-10.00:ZR	100.00:NB	-10.00:BA	870.00:	

COMMENTS : CHIP 1. 48+90E/2+15N. FELDSPAR-RICH (30%) UNIT WITH APPROX. 10% 3 MM. QTZ. EYES. CHLORITE-SERICITE MATRIX. UNCLEAR ALTERATION. NO SULPHIDES. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 PAGE 1
PRINTED 31-JAN-87
SAMPLE ID # AB17865 WHOLE ROCK GEOCHEMICAL ANALYSIS 13:07:12

LAB REPORT # 24696 FIELD NUMBER : 85952KR074 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 432232.0 N : 5416355.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 26-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.30	76.51	72.57
AL2O3	12.30	12.67	14.16
FE2O3	1.92	1.74	1.24
FEO	0.00	0.21	0.17
CAO	2.10	2.16	2.20
MGO	1.28	1.32	1.86
NA2O	2.19	2.26	4.15
K2O	2.72	2.80	3.39
TIO2	0.19	0.20	0.14
P2O5	0.06	0.06	0.05
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.23	0.00	0.00
TOTAL	97.12	100.00	100.00

NORMS	
Q	43.86
C	2.39
OR	16.97
AB	20.74
AN	10.57
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.73
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.25
IL	0.28
CR	0.01
HM	1.08
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.73
CPX	0.00
AB*	20.74

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.06 SIO2 76.51 SUBALKALINE
OL* 4.09 NE* 18.21 Q* 77.70 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.01 F 21.82 M 16.17 CALC-ALKALINE
AL2O3 12.67 NORM PLAG 33.77 THOLEITIC
AN 21.91 AB* 42.95 OR 35.14 K-RICH SERIES
CI 5.33 NORM PLAG 33.77 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 80.31 FE 9.12 MG 10.57

COLOR INDEX : 5.33
HASHIMOTO INDEX : 48.25

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	70.00:SR	160.00:Y	10.00:ZR	90.00:NB	20.00:BA	950.00:

COMMENTS : CHIP 1. 49+00E/4+30N. CHLORITE-SERICITE SCHIST. LOW FELDSPAR, OCCASIONAL RINE QTZ. EYE. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
13:07:53

SAMPLE ID # AB17866

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KR075
LOT : 0 CONCESSION :
GRID COORDINATES : E : 432302.0 N : 5416487.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,PLAGIOCLASE ,QUARTZ,SCHIST.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE.
ANALYZED BY : XRAL

DATE : 26-JUN-85
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.90	77.86	73.85
AL2O3	12.30	12.62	14.11
FE2O3	1.98	1.69	1.21
FEO	0.00	0.30	0.24
CAO	0.75	0.77	0.78
MGO	1.90	1.95	2.76
NA2O	2.12	2.17	4.00
K2O	2.31	2.37	2.87
TIO2	0.15	0.15	0.11
P2O5	0.04	0.04	0.03
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.48	100.00	100.00

NORMS	
Q	49.03
C	5.78
OR	14.35
AB	19.99
AN	3.63
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.51
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.51
IL	0.22
CR	0.01
HM	0.87
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.51
CPX	0.00
AB*	19.99

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.54 SIO2 77.86 SUBALKALINE

OL* 5.54 NE* 16.10 Q* 78.36 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 54.61 F 21.96 M 23.42 CALC-ALKALINE

AL2O3 12.62 NORM PLAG 15.38 THOLEITIC

AN 9.57 AB* 52.64 OR 37.79 K-RICH SERIES

CI 7.11 NORM PLAG 15.38 DACITE

JENSEN CALC-ALKALINE DACITE
AL 76.41 FE 8.67 MG 14.92

COLOR INDEX : 7.11
HASHIMOTO INDEX : 59.46

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	60.00:SR	160.00:Y	-10.00:ZR	60.00:NB	-10.00:BA	1140.00:

COMMENTS : CHIP 1. 49+00E/5+83N. CHLORITE-(SERICITE) SCHIST WITH 5% 1-2 MM. WATERY QUARTZ EYES AND 8% 1 MM. PLAGIOCLASE. LIGHT GREEN, WEATHERS WHITE. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17867 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR076 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 432130.0 N : 5416540.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,PLAGIOCLASE ,QUARTZ,SCHIST.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 26-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	78.00	79.15	74.55
AL2O3	12.20	12.38	13.74
FE2O3	0.97	0.98	0.70
FEO	0.00	0.00	0.00
CAO	1.39	1.41	1.42
MGO	0.87	0.88	1.24
NA2O	3.51	3.56	6.50
K2O	1.35	1.37	1.65
TIO2	0.18	0.18	0.13
P2O5	0.04	0.04	0.03
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.54	0.00	0.00
TOTAL	98.55	100.00	100.00

NORMS	
Q	46.12
C	2.85
OR	8.24
AB	32.52
AN	6.85
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.48
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.04
CR	0.01
HM	0.70
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.11
AG	0.00
OL	0.00
OPX	2.48
CPX	0.00
AB*	32.52

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.93 SIO2 79.15 SUBALKALINE
OL* 2.29 NE* 24.05 Q* 73.65 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 73.61 F 13.22 M 13.18 CALC-ALKALINE
AL2O3 12.38 NORM PLAG 17.39 THOLEITIC
AN 14.38 AB* 68.31 OR 17.31 AVERAGE SERIES
CI 3.22 NORM PLAG 17.39 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.80 FE 5.38 MG 7.83

COLOR INDEX : 3.22
HASHIMOTO INDEX : 31.18

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	40.00:SR	360.00:Y	-10.00:ZR	90.00:NB	10.00:BA	970.00:

COMMENTS : CHIP 1. 47+20E/5+80N. PALE, GREEN, WHITE WEATHERING CHLORITE-SERICITE SCHIST. STREAKY CHLORITE, 8% FINE GRAINED PLAGIOCLASE CRYSTALS PLUS 10% 3-4 MM. QUARTZ EYES. SIMILAR TO AB17866. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
13:09:15

SAMPLE ID # AB17868 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KR077 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 432040.0 N : 5416437.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,QUARTZ,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. — DATE : 26-JUN-85
ANALYZED BY : XRAL — DATE : 11-JUL-85 — ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	79.60	82.32	79.11
AL2O3	8.61	8.90	10.09
FE2O3	0.95	0.98	0.71
FEO	0.00	0.00	0.00
CAO	3.20	3.31	3.41
MGO	0.44	0.46	0.65
NA2O	1.85	1.91	3.56
K2O	1.79	1.85	2.27
TIO2	0.12	0.12	0.09
P2O5	0.04	0.04	0.03
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.39	0.00	0.00
TOTAL	96.69	100.00	100.00

NORMS	
Q	55.47
C	0.00
OR	11.36
AB	17.82
AN	10.62
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	2.61
HE	0.00
EN	0.00
FS	0.00
FO	0.00
FA	0.00
WO	1.15
LN	0.00
MT	0.00
IL	0.13
CR	0.01
HM	0.71
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.03
AG	0.00
OL	0.00
OPX	0.00
CPX	2.61
AB*	17.82

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.76 SIO2 82.32 SUBALKALINE
OL* 0.00 NE* 14.59 Q* 85.41 SUBALKALINE
CPX100.00 OL 0.00 OPX 0.00 ALKALINE
A 73.76 F 17.32 M 8.92 CALC-ALKALINE
AL2O3 8.90 NORM PLAG 37.35 THOLEITIC
AN 26.69 AB* 44.77 OR 28.54 K-RICH SERIES
CI 3.44 NORM PLAG 37.35 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.91 FE 7.48 MG 5.62

COLOR INDEX : 3.44
HASHIMOTO INDEX : 30.63

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	40.00:SR	140.00:Y	-10.00:ZR	40.00:NB	10.00:BA	770.00:

COMMENTS : CHIP 1. 47+20W/4+00N. QTZ.-SERICITE SCHIST. 10% 2-4 MM. QTZ. EYES IN A DOMINANTLY SERICITE MATRIX. MINOR CHLORITE.
XRF, NA ANALYSES PERFORMED ALSO.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17869 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR078 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,FINE,SPHERULITIC ,TECTONIZED,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 26-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	49.20	51.01	47.32	Q	0.00
AL203	14.90	15.45	16.89	C	0.00
FE203	10.40	2.30	1.61	OR	6.51
FEO	0.00	7.63	5.92	AB	26.48
CAO	11.00	11.40	11.34	AN	25.73
MGO	6.44	6.68	9.23	LC	0.00
NA2O	2.84	2.94	5.30	NE	0.00
K2O	1.06	1.10	1.30	KP	0.00
TIO2	0.72	0.75	0.52	AC	0.00
P2O5	0.52	0.54	0.42	DI	14.50
MNO	0.17	0.18	0.14	HE	7.43
S	0.00	0.00	0.00	EN	5.37
NIO	0.00	0.00	0.00	FS	2.75
CR203	0.02	0.02	0.02	FO	4.38
CO2	0.00	0.00	0.00	FA	2.24
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.39	0.00	0.00	MT	2.41
				IL	1.04
TOTAL	96.45	100.00	100.00	CR	0.02
				HM	0.00
				AP	1.13
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	6.62
				OPX	8.12
				CPX	21.93
				AB*	26.48

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.04 SIO2 51.01 SUBALKALINE

OL* 30.84 NE* 38.54 Q* 30.62 SUBALKALINE

CPX 59.79 OL 18.05 OPX 22.15 SUBALKALINE

A 19.80 F 47.51 M 32.69 THOLEITIC

AL203 15.45 NORM PLAG 49.29 THOLEITIC

AN 43.82 AB* 45.09 OR 11.09 AVERAGE SERIES

CI 40.12 NORM PLAG 49.29 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 49.23 FE 23.86 MG 26.91

COLOR INDEX : 40.12
HASHIMOTO INDEX : 35.15

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	20.00:SR	590.00:Y	10.00:ZR	90.00:NB	30.00:BA	620.00:

COMMENTS : CHIP 1. NORTH ON ABERFORD UPPER ROAD. MAFIC FLOW WITH 10-15% 5MM. SPHERULES ROUNDED TO ELLIPSOIDAL (OBLATE SPHEROIDS). XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
13:10:36

SAMPLE ID # AB17870

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KR079
LOT : 0 CONCESSION :
GRID COORDINATES : E : 429550.0 N : 5417420.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE.
ANALYZED BY : XRAL

DATE : 27-JUN-85
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	73.50	76.82	73.81
AL203	11.20	11.71	13.26
FE203	2.07	1.77	1.28
FE0	0.00	0.36	0.29
CA0	3.86	4.03	4.15
MG0	1.17	1.22	1.75
NA20	0.87	0.91	1.69
K20	2.76	2.88	3.54
TI02	0.19	0.20	0.14
P205	0.05	0.05	0.04
MN0	0.05	0.05	0.04
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
L0I	4.62	0.00	0.00
TOTAL	95.67	99.00	99.00

NORMS	
Q	48.22
C	0.00
OR	17.70
AB	8.47
AN	20.06
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.28
HE	0.01
EN	3.36
FS	0.09
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.92
IL	0.29
CR	0.75
HM	0.00
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.46
CPX	0.28
AB*	8.47

CLASSIFICATIONS AND INDICES

NA20+K20 3.79 SI02 76.82 SUBALKALINE

OL* 4.31 NE* 8.45 Q* 87.24 SUBALKALINE

CPX 7.57 OL 0.00 OPX 92.43 SUBALKALINE

A 54.48 F 27.96 M 17.56 CALC-ALKALINE

AL203 11.71 NORM PLAG 70.31 THOLEITIC

AN 43.39 AB* 18.32 OR 38.29 K-RICH SERIES

CI 5.94 NORM PLAG 70.31 HIGH ALUMINA BASALT

JENSEN CALC-ALKALINE DACITE
AL 79.11 FE 10.44 MG 10.45

COLOR INDEX : 5.94
HASHIMOTO INDEX : 45.38

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	RB	SR	Y	ZR	NB	BA	
	0.00:	40.00:	180.00:	-10.00:	80.00:	20.00:	1130.00:

COMMENTS : CHIP 2 ESSO COORDINATES 11+80E/0+00N. VERY FINE GRAINED SERICITE-CHLORITE SCHIST. TALCOSE. NO QUARTZ EYES OR FELDSPARS VISIBLE. FOLIATION 117/84S. XRF, NA ANALYSES ALSO PERFORMED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
13:11:17

SAMPLE ID # AB17871 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KR080 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 429212.0 N : 5417392.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,MEDIUM,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. — DATE : 27-JUN-85 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 11-JUL-85 — TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.90	74.67	70.23
AL2O3	14.20	14.54	16.13
FE2O3	2.35	1.79	1.27
FEO	0.00	0.55	0.44
CAO	1.09	1.12	1.13
MGO	1.10	1.13	1.58
NA2O	3.10	3.18	5.79
K2O	2.55	2.61	3.14
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.08	0.08	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	97.63	100.00	100.00

NORMS	
Q	39.78
C	5.11
OR	15.69
AB	28.95
AN	5.22
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.16
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.95
IL	0.36
CR	0.01
HM	0.64
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.16
CPX	0.00
AB*	28.95

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.79 SIO2 74.67 SUBALKALINE
OL* 3.30 NE* 24.16 Q* 72.54 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 63.74 F 23.85 M 12.41 CALC-ALKALINE
AL2O3 14.54 NORM PLAG 15.27 CALC-ALKALINE
AN 10.46 AB* 58.07 OR 31.47 K-RICH SERIES
CI 5.11 NORM PLAG 15.27 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.04 FE 9.92 MG 8.04

COLOR INDEX : 5.11
HASHIMOTO INDEX : 46.56

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 50.00:SR 140.00:Y 20.00:ZR 110.00:NB 30.00:BA 850.00:

COMMENTS : CHIP 2 K.C.M. 18E/150S OR ESSO 18E/230S. MEDIUM GRAINED CHLORITE-SERICITE SCHIST, BUT NO QTZ. EYES OR FELDSPARS ARE SEEN. INTERBEDDED WITH CHLORITE SCHISTS (DARK GREEN). AB17871 IS A PALINDROME. XRF, NA ANALYSES PERFORMED ALSO.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17872 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR081 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 429205.0 N : 5417402.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.80	55.88	52.15
AL2O3	17.00	17.99	19.79
FE2O3	11.50	2.39	1.68
FEO	0.00	8.80	6.87
CAO	2.88	3.05	3.05
MGO	7.22	7.64	10.63
NA2O	2.07	2.19	3.96
K2O	0.72	0.76	0.91
TIO2	0.76	0.80	0.56
P2O5	0.14	0.15	0.12
MNO	0.31	0.33	0.26
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.02	0.02	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.77	0.00	0.00
TOTAL	94.49	100.00	100.00

NORMS	
Q	15.49
C	9.22
OR	4.54
AB	19.82
AN	14.26
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	21.26
FS	11.43
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.52
IL	1.13
CR	0.02
HM	0.00
AP	0.31
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	32.69
CPX	0.00
AB*	19.82

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.95 SIO2 55.88 SUBALKALINE
OL* 36.05 NE* 17.49 Q* 46.46 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 13.70 F 50.83 M 35.47 THOLEITIC
AL2O3 17.99 NORM PLAG 41.85 CALC-ALKALINE
AN 36.93 AB* 51.31 OR 11.76 AVERAGE SERIES
CI 36.34 NORM PLAG 41.85 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 49.74 FE 23.55 MG 26.71

COLOR INDEX : 36.34
HASHIMOTO INDEX : 61.60

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 20.00:SR 210.00:Y 10.00:ZR 40.00:NB 20.00:BA 330.00:

COMMENTS : 5 M. WEST OF AB17871. DARK GREEN CHLORITE SCHIST WITH 3% 1 MM. FELDSPAR PHENOCRYSTS. DIFFICULT TO SAY IF ANY CHLORITE IS HYDROTHERMAL ALTERATION. MINOR LIMONITE STAINING. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
13:12:39

SAMPLE ID # AB17873

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 85952KR082
LOT : 0 CONCESSION :
GRID COORDINATES : E : 428915.0 N : 5418170.0 EL : 0.0

PROJECT # 952
PROVINCE : BRITISH COLUMBIA
PROJECT : VANC. ISL. ESSO JV

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,QUARTZ,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE.
ANALYZED BY : XRAL

DATE : 27-JUN-85
DATE : 11-JUL-85

ANALYTICAL
TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	75.30	77.40	74.20
AL203	15.00	15.42	17.42
FE203	1.94	1.82	1.31
FEO	0.00	0.16	0.13
CAO	0.06	0.06	0.06
MGO	0.43	0.44	0.63
NA2O	1.00	1.03	1.91
K2O	3.24	3.33	4.08
TI02	0.27	0.28	0.20
P205	0.05	0.05	0.04
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	97.27	99.00	99.00

NORMS	
Q	55.62
C	11.45
OR	20.39
AB	9.55
AN	0.02
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.26
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.30
IL	0.40
CR	0.75
HM	0.44
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.26
CPX	0.00
AB*	9.55

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.36 SI02 77.40 SUBALKALINE

OL* 1.43 NE* 8.63 Q* 89.95 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 66.09 F 27.21 M 6.70 CALC-ALKALINE

AL203 15.42 NORM PLAG 0.00 CALC-ALKALINE

AN 0.00 AB* 31.90 OR 68.10 K-RICH SERIES

CI 3.41 NORM PLAG 0.00 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 88.43 FE 8.36 MG 3.21

COLOR INDEX : 3.41
HASHIMOTO INDEX : 77.59

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	50.00:SR	90.00:Y	-10.00:ZR	130.00:NB	10.00:BA	1330.00:

COMMENTS : CHIP 2 ESSO COORDS. 11+25E/3+75N. PAPERY SERICITE SCHIST WITH 3% 1-2 MM. QTZ. EYES. ESSO SODIUM DEPLETED SAMPLE.
XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 31-JAN-87
13:13:20

SAMPLE ID # AB17874 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KR083 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 429970.0 N : 5418115.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. — DATE : 27-JUN-85
ANALYZED BY : XRAL — DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.30	53.18	49.11
AL2O3	17.20	18.55	20.19
FE2O3	11.80	2.87	1.99
FEO	0.00	8.87	6.85
CAO	1.08	1.16	1.15
MGO	10.20	11.00	15.14
NA2O	2.00	2.16	3.86
K2O	0.20	0.22	0.25
TIO2	1.16	1.25	0.87
P2O5	0.52	0.56	0.44
MNO	0.12	0.13	0.10
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.04	0.04	0.03
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.00	0.00	0.00
TOTAL	92.70	100.00	100.00

NORMS	
Q	15.70
C	15.24
OR	1.27
AB	19.31
AN	2.10
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	30.28
FS	10.14
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.99
IL	1.74
CR	0.05
HM	0.00
AP	1.17
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	40.43
CPX	0.00
AB*	19.31

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.37 SIO2 53.18 SUBALKALINE
OL* 40.19 NE* 15.36 Q* 44.45 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 9.56 F 46.13 M 44.31 THOLEITIC
AL2O3 18.55 NORM PLAG 9.82 CALC-ALKALINE
AN 9.27 AB* 85.13 OR 5.61 K-POOR SERIES
CI 45.15 NORM PLAG 9.82 ANDESITE

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 44.73 FE 21.74 MG 33.54

COLOR INDEX : 45.15
HASHIMOTO INDEX : 77.15

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:	RB 10.00:	SR 100.00:	Y 10.00:	ZR 90.00:	NB 30.00:	BA 220.00:	

COMMENTS : CHIP 2 ESSO COORDS. 12+00E/3+70N. CHLORITE SCHIST. NO APPARENT QTZ. OR FELDSPAR CLASTS. DEEPLY WEATHERED. DARK GREEN AND LIGHT GREEN WEATHERING. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17875 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR084 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 429060.0 N : 5418065.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,SCHIST,SCHIST.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.40	75.30	72.18
AL2O3	14.40	14.98	16.92
FE2O3	2.67	1.82	1.31
FEO	0.00	0.86	0.69
CAO	2.01	2.09	2.15
MGO	0.80	0.83	1.19
NA2O	1.06	1.10	2.05
K2O	2.53	2.63	3.22
TIO2	0.25	0.26	0.19
P2O5	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.70	0.00	0.00
TOTAL	96.14	99.00	99.00

NORMS	
Q	50.66
C	7.53
OR	16.11
AB	10.24
AN	10.31
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.38
FS	0.79
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.97
IL	0.37
CR	0.75
HM	0.00
AP	0.14
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.17
CPX	0.00
AB*	10.24

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.73 SIO2 75.30 SUBALKALINE
OL* 3.71 NE* 9.59 Q* 86.70 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 52.85 F 35.37 M 11.78 THOLEITIC
AL2O3 14.98 NORM PLAG 50.17 THOLEITIC
AN 28.13 AB* 27.94 OR 43.93 K-RICH SERIES
CI 5.52 NORM PLAG 50.17 ANDESITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.15 FE 11.01 MG 5.84

COLOR INDEX : 5.52
HASHIMOTO INDEX : 52.03

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	50.00:SR	160.00:Y	10.00:ZR	120.00:NB	10.00:BA	1000.00:

COMMENTS : CHIP 2 ESSO COORDS. 13+00E/3+60N. VERY SERICITIC, FELSIC, VOLCANIC WITH 3% 1-2 MM. QUARTZ EYES. PAPERY. A SODIUM DEPLETED SAMPLE. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17876

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 | FIELD NUMBER : 85952KR085 | PROJECT # 952
TOWNSHIP : | LOT : 0 CONCESSION : | PROVINCE : BRITISH COLUMBIA
NTS : 092B13 | | PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 | GRID COORDINATES : E : 429045.0 N : 5417885.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,FELSIC,FINE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : FRACTURE CONTROLLED,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. | DATE : 27-JUN-85 | ANALYTICAL
ANALYZED BY : XRAL | DATE : 11-JUL-85 | TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	77.70	80.06	78.21	Q	65.21
AL2O3	10.40	10.72	12.34	C	9.19
FE2O3	4.72	1.92	1.41	OR	12.60
FEO	0.00	2.65	2.17	AB	3.61
CAO	0.38	0.39	0.41	AN	0.11
MGO	1.10	1.13	1.65	LC	0.00
NA2O	0.37	0.38	0.72	NE	0.00
K2O	1.96	2.02	2.52	KP	0.00
TIO2	0.36	0.37	0.27	AC	0.00
P2O5	0.32	0.33	0.27	DI	0.00
MNO	0.03	0.03	0.03	HE	0.00
S	0.00	0.00	0.00	EN	3.30
NIO	0.00	0.00	0.00	FS	3.43
CR2O3	0.00	0.50	0.50	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.16	0.00	0.00	MT	2.11
				IL	0.55
TOTAL	97.04	99.00	99.00	CR	0.75
				HM	0.00
				AP	0.73
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	6.73
				CPX	0.00
				AB*	3.61

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.40 SIO2 80.06 SUBALKALINE
OL* 6.68 NE* 2.87 Q* 90.45 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 30.35 F 55.32 M 14.33 THOLEITIC
AL2O3 10.72 NORM PLAG 0.00 THOLEITIC
AN 0.00 AB* 22.27 OR 77.73 K-RICH SERIES
CI 9.39 NORM PLAG 0.00 RHYOLITE

JENSEN THOLEIITIC DACITE
AL 69.08 FE 21.68 MG 9.24

COLOR INDEX : 9.39
HASHIMOTO INDEX : 80.31

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 50.00:SR -10.00:Y 10.00:ZR 50.00:NB 10.00:BA 1240.00:

COMMENTS : CHIP 2 ESSO COORDS. 13+90E/1+70N. MAPPED AS CHLORITE-SERICITE SCHIST BUT MORE CLOSELY RESEMBLES A FELSIC SERICITIC SCHIST. SERICITE ON FRACTURES AND FOLIATION. GROUNDMASS IS WHITE-GREY RHYOLITE. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17877 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR086 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 428950.0 N : 5417899.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,QUARTZ,PLAGIOCLASE ,SCHIST.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	71.00	73.13	69.09	Q	42.19
AL2O3	14.90	15.35	17.09	C	9.25
FE2O3	4.33	1.79	1.27	OR	14.42
FEO	0.00	2.40	1.90	AB	24.15
CAO	0.14	0.14	0.15	AN	0.32
MGO	1.73	1.78	2.51	LC	0.00
NA2O	2.56	2.64	4.83	NE	0.00
K2O	2.32	2.39	2.88	KP	0.00
TIO2	0.24	0.25	0.18	AC	0.00
P2O5	0.06	0.06	0.05	DI	0.00
MNO	0.06	0.06	0.05	HE	0.00
S	0.00	0.00	0.00	EN	5.02
NIO	0.00	0.00	0.00	FS	2.26
CR2O3	0.01	0.01	0.01	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.85	0.00	0.00	MT	1.91
				IL	0.35
TOTAL	97.09	100.00	100.00	CR	0.01
				HM	0.00
				AP	0.13
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	7.28
				CPX	0.00
				AB*	24.15

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.03 SIO2 73.13 SUBALKALINE
OL* 7.41 NE* 19.68 Q* 72.90 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 46.45 F 37.08 M 16.47 THOLEITIC
AL2O3 15.35 NORM PLAG 1.30 CALC-ALKALINE
AN 0.82 AB* 62.11 OR 37.08 K-RICH SERIES
CI 9.54 NORM PLAG 1.30 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 74.32 FE 14.77 MG 10.91

COLOR INDEX : 9.54
HASHIMOTO INDEX : 60.00

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	50.00:SR	210.00:Y	-10.00:ZR	100.00:NB	20.00:BA	1040.00:

COMMENTS : CHIP 2 ESSO COORDS. 12+90E/1+25N. MAPPED AS SERICITE-SCHIST MORE LIKELY CHLORITE-SERICITE SCHIST. 5-8% QTZ. (1-3 MM.) AND 8% FELDSPAR (1-3MM.). MOTTLED APPEARANCE CAUSED BY STREAKY CHLORITE. XRF, NA ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17878 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR087 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 428922.0 N : 5417885.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	55.60	58.93	55.58
AL2O3	17.90	18.97	21.09
FE2O3	11.60	2.49	1.77
FEO	0.00	8.82	6.96
CAO	0.33	0.35	0.35
MGO	4.86	5.15	7.24
NA2O	1.88	1.99	3.64
K2O	1.89	2.00	2.41
TIO2	0.85	0.90	0.64
P2O5	0.21	0.22	0.18
MNO	0.13	0.14	0.11
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.03	0.03	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.85	0.00	0.00
TOTAL	94.35	100.00	100.00

NORMS	
Q	24.52
C	14.92
OR	12.06
AB	18.22
AN	0.28
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	14.48
FS	11.07
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.65
IL	1.28
CR	0.04
HM	0.00
AP	0.47
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	25.55
CPX	0.00
AB*	18.22

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.00 SIO2 58.93 SUBALKALINE
OL* 28.06 NE* 16.01 Q* 55.94 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 19.77 F 54.74 M 25.49 THOLEITIC
AL2O3 18.97 NORM PLAG 1.53 CALC-ALKALINE
AN 0.93 AB* 59.60 OR 39.47 K-RICH SERIES
CI 29.48 NORM PLAG 1.53 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 55.79 FE 25.06 MG 19.15

COLOR INDEX : 29.48
HASHIMOTO INDEX : 75.33

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00	RB 60.00	SR 110.00	Y 20.00	ZR 30.00	NB 20.00	BA 630.00

COMMENTS : CHIP 2 ESSO COORDINATES 12+75E/1+20N. DARK GREEN CHLORITIC SCHIST-FLOW, DIKE OR TUFF. NO QUARTZ OR FELDSPAR PHENOCRYSTS. SIMILAR TO 17824. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 26-JAN-87
20:45:01

SAMPLE ID # AB17879 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KR088 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 428320.0 N : 5418205.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. — DATE : 27-JUN-85
ANALYZED BY : XRAL — DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	64.90	67.01	62.31
AL2O3	18.50	19.10	20.94
FE2O3	4.27	1.89	1.32
FEO	0.00	2.27	1.76
CAO	0.30	0.31	0.31
MGO	0.89	0.92	1.27
NA2O	3.59	3.71	6.68
K2O	4.03	4.16	4.94
TIO2	0.33	0.34	0.24
P2O5	0.21	0.22	0.17
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.85	0.00	0.00
TOTAL	96.84	99.00	99.00

NORMS	
Q	24.70
C	9.26
OR	24.71
AB	33.41
AN	0.12
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.55
FS	2.84
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.98
IL	0.48
CR	0.75
HM	0.00
AP	0.46
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.39
CPX	0.00
AB*	33.41

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.87 SIO2 67.01 SUBALKALINE
OL* 6.36 NE* 31.57 Q* 62.07 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 61.69 F 31.11 M 7.21 THOLEITIC
AL2O3 19.10 NORM PLAG 0.35 CALC-ALKALINE
AN 0.20 AB* 57.37 OR 42.43 K-RICH SERIES
CI 7.85 NORM PLAG 0.35 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.81 FE 13.21 MG 4.98

COLOR INDEX : 7.85
HASHIMOTO INDEX : 55.85

TRACE ELEMENTS (P.P.M.) - AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	90.00:SR	100.00:Y	20.00:ZR	180.00:NB	30.00:BA	1300.00:

COMMENTS : CHIP 2 ESSO COORDINATES 5+80E/1+00N. MAPPED AS NA DEPLETED SERICITE-SCHIST, APPEARS TO BE CHLORITE-SERICITE SCHIST. XRF, NA ANALYSES ALSO PERFORMED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 26-JAN-87
SAMPLE ID # AB17880 WHOLE ROCK GEOCHEMICAL ANALYSIS 20:45:42

LAB REPORT # 24696 FIELD NUMBER : 85952KR089 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 428490.0 N : 5418065.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,MATRIX SUPPORTED,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	53.30	55.33	50.90
AL2O3	13.00	13.50	14.63
FE2O3	10.40	2.20	1.52
FEO	0.00	7.73	5.95
CAO	7.46	7.74	7.63
MGO	8.03	8.34	11.43
NA2O	3.69	3.83	6.83
K2O	0.28	0.29	0.34
TIO2	0.62	0.64	0.45
P2O5	0.17	0.18	0.14
MNO	0.18	0.19	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.03	0.03	0.02
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.46	0.00	0.00
TOTAL	96.33	100.00	100.00

NORMS	
Q	1.94
C	0.00
OR	1.71
AB	34.16
AN	18.65
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	10.30
HE	4.40
EN	17.71
FS	7.56
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.29
IL	0.89
CR	0.03
HM	0.00
AP	0.37
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	25.27
CPX	14.70
AB*	34.16

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.12 SIO2 55.33 SUBALKALINE
OL* 30.88 NE* 33.40 Q* 35.72 SUBALKALINE
CPX 36.78 OL 0.00 OPX 63.22 SUBALKALINE
A 18.59 F 43.81 M 37.60 THOLEITIC
AL2O3 13.50 NORM PLAG 35.32 THOLEITIC
AN 34.21 AB* 62.66 OR 3.13 K-POOR SERIES
CI 43.14 NORM PLAG 35.32 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 42.88 FE 23.63 MG 33.49

COLOR INDEX : 43.14
HASHIMOTO INDEX : 42.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	20.00:SR	170.00:Y	20.00:ZR	30.00:NB	10.00:BA	210.00:

COMMENTS : CHIP 2 ESSO COORDS. 8+10E/0+65N. MAFIC LAPILLI TUFF GRADING TO FRAGMENTAL LAPILLI ALTERED TO DARK CHLORITE. EPIDOTE POSSIBLY AFTER FELDSPAR. CLAST CONTENT IS APPROX. 30% AND PARTICLES UP TO 2 CM. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 — PAGE 1
PRINTED 26-JAN-87 20:46:23

SAMPLE ID # AB17881 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 — FIELD NUMBER : 85952KR090 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,MATRIX SUPPORTED,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : SPOTS ,EPIDOTIZATION ,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. — DATE : 27-JUN-85 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 11-JUL-85 — TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.90	53.39	49.03
AL2O3	12.20	12.55	13.59
FE2O3	10.20	2.16	1.49
FEO	0.00	7.50	5.76
CAO	9.73	10.01	9.85
MGO	9.78	10.06	13.77
NA2O	3.01	3.10	5.51
K2O	0.22	0.23	0.27
TIO2	0.60	0.62	0.43
P2O5	0.14	0.14	0.11
MNO	0.18	0.19	0.14
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.06	0.06	0.04
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	97.21	100.00	100.00

NORMS	
Q	0.00
C	0.00
OR	1.33
AB	27.57
AN	19.52
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	17.17
HE	5.87
EN	17.92
FS	6.13
FO	0.78
FA	0.27
WO	0.00
LN	0.00
MT	2.24
IL	0.85
CR	0.07
HM	0.00
AP	0.30
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	1.04
OPX	24.05
CPX	23.04
AB*	27.57

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.32 SIO2 53.39 SUBALKALINE
OL* 36.23 NE* 31.41 Q* 32.36 SUBALKALINE
CPX 47.87 OL 2.16 OPX 49.97 SUBALKALINE
A 14.56 F 41.36 M 44.08 THOLEITIC
AL2O3 12.55 NORM PLAG 41.45 THOLEITIC
AN 40.32 AB* 56.94 OR 2.74 K-POOR SERIES
CI 51.22 NORM PLAG 41.45 BASALT

JENSEN BASALTIC KOMATIITE
AL 38.62 FE 22.24 MG 39.14

COLOR INDEX : 51.22
HASHIMOTO INDEX : 43.98

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	20.00:SR	230.00:Y	20.00:ZR	10.00:NB	20.00:BA	260.00:

COMMENTS : CHIP 2 ESSO COORDS. 13+50E/0+50N. SIMILAR TO AB17880. CLAST CONTENT 40-50%. XRF AND NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17883 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR091 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 432310.0 N : 5416385.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,QUARTZ,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 28-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.40	74.80	70.80
AL2O3	13.20	13.64	15.21
FE2O3	1.93	1.76	1.25
FEO	0.00	0.21	0.17
CAO	2.78	2.87	2.91
MGO	1.14	1.18	1.66
NA2O	2.31	2.39	4.38
K2O	2.64	2.73	3.30
TIO2	0.20	0.21	0.15
P2O5	0.14	0.14	0.12
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	96.79	100.00	100.00

NORMS	
Q	40.67
C	2.10
OR	16.48
AB	21.90
AN	13.60
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.32
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.20
IL	0.29
CR	0.01
HM	1.11
AP	0.31
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.32
CPX	0.00
AB*	21.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.11 SIO2 74.80 SUBALKALINE
OL* 3.78 NE* 19.94 Q* 76.28 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 63.25 F 22.19 M 14.57 CALC-ALKALINE
AL2O3 13.64 NORM PLAG 38.31 THOLEITIC
AN 26.16 AB* 42.13 OR 31.72 K-RICH SERIES
CI 4.94 NORM PLAG 38.31 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.27 FE 8.74 MG 8.98

COLOR INDEX : 4.94
HASHIMOTO INDEX : 42.62

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 60.00:SR 150.00:Y 20.00:ZR 80.00:NB 10.00:BA 1230.00:

COMMENTS : NORTH OF CHIP 1. SERICITE SCHIST WITH MINOR CHLORITE. TALCOSE IN TEXTURE. 8% 1-3 MM. QTZ. EYES. XRF, NA ANALYSES ALSO DONE.

SAMPLE ID # AB17884 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85952KR092 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 432757.0 N : 5415847.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,MAFIC ,FINE,MASSIVE ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : UNKNOWN ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : K. RYE. DATE : 28-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	53.70	56.81	53.07
AL203	17.70	18.73	20.62
FE203	9.49	2.43	1.71
FE0	0.00	6.84	5.35
CA0	4.25	4.50	4.50
MG0	2.32	2.45	3.42
NA20	3.33	3.52	6.38
K20	3.07	3.25	3.87
TI02	0.80	0.85	0.59
P205	0.48	0.51	0.40
MN0	0.10	0.11	0.08
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.00	0.50	0.50
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
L0I	4.62	0.00	0.00
TOTAL	94.51	99.00	99.00

NORMS	
Q	6.75
C	2.70
OR	19.37
AB	31.90
AN	19.15
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	6.83
FS	8.96
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.57
IL	1.19
CR	0.75
HM	0.00
AP	1.07
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	15.80
CPX	0.00
AB*	31.90

CLASSIFICATIONS AND INDICES

NA20+K20 6.77 SI02 56.81 SUBALKALINE
OL* 21.76 NE* 35.16 Q* 43.08 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 37.08 F 49.48 M 13.44 THOLEITIC
AL203 18.73 NORM PLAG 37.51 CALC-ALKALINE
AN 27.19 AB* 45.30 OR 27.51 K-RICH SERIES
CI 19.55 NORM PLAG 37.51 ANDESITE

JENSEN THOLEIITIC DACITE
AL 64.90 FE 24.35 MG 10.76

COLOR INDEX : 19.55
HASHIMOTO INDEX : 41.56

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 60.00:SR 280.00:Y 30.00:ZR 110.00:NB 30.00:BA 880.00:

COMMENTS : ABERFORD NORTH ROAD. CHIP 1. MAFIC FLOW OR SILL. DARK GREEN, HARD, MASSIVE, MINOR CARBONATE IN BANDS. STRONGLY MAGNETIC. VERY FINE GRAINED. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 — PAGE 1
PRINTED 26-JAN-87 20:48:25

SAMPLE ID # AB17902 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM308 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 434625.0 N : 5414385.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 02-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	64.50	68.48	63.37
AL2O3	15.20	16.14	17.60
FE2O3	3.23	2.09	1.46
FEO	0.00	1.20	0.93
CAO	0.64	0.68	0.67
MGO	5.34	5.67	7.82
NA2O	2.63	2.79	5.01
K2O	2.06	2.19	2.58
TIO2	0.47	0.50	0.35
P2O5	0.10	0.11	0.08
MNO	0.14	0.15	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.16	0.00	0.00
TOTAL	94.18	100.00	100.00

NORMS	
Q	31.70
C	8.94
OR	12.92
AB	25.05
AN	2.67
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	15.64
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.10
IL	0.69
CR	0.00
HM	0.05
AP	0.22
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	15.64
CPX	0.00
AB*	25.05

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.98 SIO2 68.48 SUBALKALINE
OL* 16.20 NE* 20.76 Q* 63.03 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 36.25 F 22.47 M 41.28 CALC-ALKALINE
AL2O3 16.14 NORM PLAG 9.65 CALC-ALKALINE
AN 6.58 AB* 61.62 OR 31.80 K-RICH SERIES
CI 18.49 NORM PLAG 9.65 DACITE

JENSEN CALC-ALKALINE ANDESITE
AL 62.26 FE 10.09 MG 27.65

COLOR INDEX : 18.49
HASHIMOTO INDEX : 69.35

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 60.00:SR 190.00:Y 20.00:ZR 150.00:NB 20.00:BA 1820.00:

COMMENTS : PS099/77NE. FINE GR. QTZ-SERICITE SCHIST. SLIGHTLY PYRITIC, <<1%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17903 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM311 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434240.0 N : 5415400.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,BLOCK ,QUARTZ AND FELDSPAR PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 02-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.40	75.05	70.78
AL2O3	13.60	14.10	15.67
FE2O3	2.95	1.81	1.29
FEO	0.00	1.12	0.88
CAO	0.76	0.79	0.80
MGO	1.57	1.63	2.29
NA2O	2.87	2.98	5.44
K2O	2.04	2.11	2.55
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.09	0.09	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.47	100.00	100.00

NORMS	
Q	42.98
C	6.26
OR	12.74
AB	27.20
AN	3.57
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.57
FS	0.26
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.93
IL	0.37
CR	0.00
HM	0.00
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.83
CPX	0.00
AB*	27.20

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.09 SIO2 75.05 SUBALKALINE
OL* 4.83 NE* 21.76 Q* 73.41 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 53.75 F 29.06 M 17.19 CALC-ALKALINE
AL2O3 14.10 NORM PLAG 11.59 CALC-ALKALINE
AN 8.20 AB* 62.52 OR 29.28 K-RICH SERIES
CI 7.13 NORM PLAG 11.59 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 76.87 FE 11.91 MG 11.22

COLOR INDEX : 7.13
HASHIMOTO INDEX : 49.86

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 50.00:SR 210.00:Y -10.00:ZR 110.00:NB 20.00:BA 990.00:

COMMENTS : PS111/64NE. INTERMEDIATE TO FELSIC COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF. RANDOMLY DIST. THROUGHOUT BUT PARALLEL TO FOLIATION ARE BUFF-WHITE WEATHERING CLASTS, RANGING FROM 3 X 1CM TO 50 X 10CM, <7%. IS A PYROCLASTIC FLOW.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 — PAGE 1
PRINTED 26-JAN-87 20:49:47

SAMPLE ID # AB17904 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM313 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 434180.0 N : 5415500.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 02-AUG-86 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 08-SEP-86 — TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	66.40	68.71	63.42
AL203	17.30	17.90	19.48
FE203	3.18	1.86	1.29
FEO	0.00	1.28	0.99
CAO	0.82	0.85	0.84
MGO	1.72	1.78	2.45
NA2O	4.36	4.51	8.07
K2O	2.57	2.66	3.14
TIO2	0.30	0.31	0.22
P2O5	0.08	0.08	0.06
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	96.64	100.00	100.00

NORMS	
Q	25.71
C	6.81
OR	15.68
AB	40.37
AN	3.66
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.90
FS	0.34
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.94
IL	0.43
CR	0.00
HM	0.00
AP	0.17
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.24
CPX	0.00
AB*	40.37

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.17 SIO2 68.71 SUBALKALINE
OL* 5.51 NE* 33.96 Q* 60.53 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 60.20 F 24.86 M 14.94 CALC-ALKALINE
AL203 17.90 NORM PLAG 8.30 CALC-ALKALINE
AN 6.12 AB* 67.62 OR 26.26 K-RICH SERIES
CI 7.61 NORM PLAG 8.30 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 79.60 FE 10.39 MG 10.01

COLOR INDEX : 7.61
HASHIMOTO INDEX : 45.30

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 100.00:SR 160.00:Y 20.00:ZR 140.00:NB 20.00:BA 1120.00:

COMMENTS : PS103/86NE. INTERMEDIATE COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF. MATRIX OF ROCK IS EASILY INTERPRETED AS CHLORITE-SERICITE SCHIST.

REPORT #2000

PRINTED 26-JAN-87
20:50:28

SAMPLE ID # AB17905 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM313 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434340.0 N : 5414850.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.60	77.29	72.64
AL2O3	12.60	12.88	14.27
FE2O3	1.98	1.77	1.25
FEO	0.00	0.23	0.18
CAO	0.31	0.32	0.32
MGO	1.95	1.99	2.79
NA2O	3.27	3.34	6.09
K2O	1.79	1.83	2.20
TIO2	0.23	0.24	0.17
P2O5	0.06	0.06	0.05
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.81	100.00	100.00

NORMS	
Q	44.51
C	5.51
OR	10.98
AB	30.46
AN	1.19
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.58
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.17
IL	0.33
CR	0.00
HM	1.14
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.58
CPX	0.00
AB*	30.46

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.17 SIO2 77.29 SUBALKALINE
OL* 5.20 NE* 22.69 Q* 72.11 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 57.55 F 20.26 M 22.18 CALC-ALKALINE
AL2O3 12.88 NORM PLAG 3.75 CALC-ALKALINE
AN 2.79 AB* 71.45 OR 25.76 K-RICH SERIES
CI 7.22 NORM PLAG 3.75 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 76.31 FE 8.76 MG 14.93

COLOR INDEX : 7.22
HASHIMOTO INDEX : 51.09

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 50.00:SR 110.00:Y 20.00:ZR 100.00:NB -10.00:BA 900.00:

COMMENTS : PS119/80NE. INTERMEDIATE COMPOSITION FELDSPAR CRYSTAL TUFF. PALE GREEN, FINE GR. MATRIX, AGGREGATE OF QTZ., CHLORITE, AND SERICITE (80%). SUBHEDRAL, BLOCKY, FLESH COLOURED FELDSPAR (1MM TO 1 X 2MM, <15%).

SAMPLE ID # AB17906 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM314 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434290.0 N : 5414935.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.70	79.88	76.52
AL2O3	11.60	12.08	13.64
FE2O3	1.50	1.56	1.13
FEO	0.00	0.00	0.00
CAO	1.61	1.68	1.72
MGO	0.68	0.71	1.01
NA2O	1.70	1.77	3.29
K2O	1.92	2.00	2.45
TIO2	0.20	0.21	0.15
P2O5	0.05	0.05	0.04
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.54	0.00	0.00
TOTAL	96.02	100.00	100.00

NORMS	
Q	55.01
C	4.61
OR	12.23
AB	16.44
AN	8.25
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.02
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.10
CR	0.00
HM	1.13
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	2.02
CPX	0.00
AB*	16.44

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.77 SIO2 79.88 SUBALKALINE
OL* 2.06 NE* 13.43 Q* 84.51 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 64.07 F 23.89 M 12.04 CALC-ALKALINE
AL2O3 12.08 NORM PLAG 33.42 THOLEITIC
AN 22.35 AB* 44.52 OR 33.13 K-RICH SERIES
CI 3.25 NORM PLAG 33.42 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.37 FE 8.30 MG 6.33

COLOR INDEX : 3.25
HASHIMOTO INDEX : 43.99

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 70.00:SR 220.00:Y -10.00:ZR 100.00:NB 10.00:BA 1140.00:

COMMENTS : PS125/71SW. ROCK IS MATRIX TO QTZ-FELDSPAR CRYSTAL TUFF (AB17905). MORE EASILY IDENTIFIED AS CHLORITE-SERICITE SCHIST. FINE GRAINED/APHANITIC CRYSTALLINITY. AGGREGATE OF CHLORITE AND SERICITE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 — PAGE 1
PRINTED 26-JAN-87 20:51:49

SAMPLE ID # AB17907 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM315 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 434270.0 N : 5415015.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE PLUS CHALCOPYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 05-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : XRF + PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	51.10	54.77	50.55
AL2O3	18.90	20.26	22.04
FE2O3	11.10	2.67	1.85
FEO	0.00	8.30	6.41
CAO	1.37	1.47	1.45
MGO	4.51	4.83	6.65
NA2O	4.09	4.38	7.84
K2O	1.66	1.78	2.10
TIO2	0.99	1.06	0.74
P2O5	0.36	0.39	0.30
MNO	0.09	0.10	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.54	0.00	0.00
TOTAL	93.31	100.00	100.00

NORMS	
Q	7.36
C	10.20
OR	10.49
AB	39.22
AN	4.74
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	13.30
FS	9.64
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.78
IL	1.47
CR	0.00
HM	0.00
AP	0.80
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	22.94
CPX	0.00
AB*	39.22

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.16 SIO2 54.77 SUBALKALINE
OL* 24.75 NE* 33.85 Q* 41.40 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 28.40 F 49.33 M 22.27 THOLEITIC
AL2O3 20.26 NORM PLAG 10.79 CALC-ALKALINE
AN 8.71 AB* 72.03 OR 19.26 AVERAGE SERIES
CI 27.19 NORM PLAG 10.79 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 58.36 FE 24.03 MG 17.61

COLOR INDEX : 27.19
HASHIMOTO INDEX : 53.05

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	1.00:CU	37.00:ZN	51.00:RB	50.00:SR	190.00:Y	10.00:ZR	60.00:NB	10.00:AG	-0.50:
BA	500.00:PB	-2.00:							

COMMENTS : ABERFORD TRENCH 83-31, AZIMUTH 181 DEG., LENGTH 95M, L57+00W, 16+25N. RUBBLE SAMPLE. EXTREMELY ALTERED FELSIC TUFF? CHALKY IN TEXTURE, COMPOSED OF SERICITE, CHLORITE, DISSEMINATED PY AND CPY.

SAMPLE ID # AB17908 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM316 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434248.0 N : 5415030.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,MAFIC ,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : XRF + PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	46.40	50.19	47.43
AL2O3	18.00	19.47	21.69
FE2O3	14.50	2.37	1.68
FEO	0.00	11.98	9.47
CAO	6.51	7.04	7.13
MGO	4.54	4.91	6.92
NA2O	2.01	2.17	3.98
K2O	0.65	0.70	0.85
TIO2	0.69	0.75	0.53
P2O5	0.26	0.28	0.22
MNO	0.12	0.13	0.10
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.47	0.00	0.00
TOTAL	92.45	100.00	100.00

NORMS	
Q	4.31
C	3.35
OR	4.24
AB	19.91
AN	33.77
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	13.83
FS	16.40
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.53
IL	1.06
CR	0.00
HM	0.00
AP	0.60
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	30.23
CPX	0.00
AB*	19.91

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.88 SIO2 50.19 SUBALKALINE
OL* 41.64 NE* 21.94 Q* 36.42 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 13.14 F 64.44 M 22.42 THOLEITIC
AL2O3 19.47 NORM PLAG 62.90 CALC-ALKALINE
AN 58.30 AB* 34.38 OR 7.32 AVERAGE SERIES
CI 33.82 NORM PLAG 62.90 BASALT

JENSEN THOLEIITIC ANDESITE
AL 53.69 FE 29.18 MG 17.12

COLOR INDEX : 33.82
HASHIMOTO INDEX : 37.86

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU 34.00:CU 8600.00:ZN 51.00:RB -10.00:SR 420.00:Y -10.00:ZR 30.00:NB 20.00:AG 1.00:
BA 420.00:PB -2.00:

COMMENTS : PS113/80SW. SAMPLE TAKEN FROM TRENCH 83-31. (SEE AB17907). FINE GRAINED, MEDIUM GREEN CHLORITE SCHIST, LOCALLY WITH BLOCKY FELDSPAR (ANHEDRAL, 1-2MM, 10%) OF A SLIGHT GREEN TINGE. FELDSPARS SERICITIZED?

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17909 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM317 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434180.0 N : 5415125.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,LOOK AT COMMENTS FILE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.70	76.34	72.28
AL2O3	14.40	14.92	16.65
FE2O3	1.86	1.81	1.29
FEO	0.00	0.10	0.08
CAO	0.20	0.21	0.21
MGO	0.83	0.86	1.21
NA2O	2.28	2.36	4.34
K2O	2.93	3.04	3.67
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.54	100.00	100.00

NORMS	
Q	46.80
C	8.39
OR	18.35
AB	21.68
AN	0.63
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.43
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.23
CR	0.00
HM	1.29
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.07
AG	0.00
OL	0.00
OPX	2.43
CPX	0.00
AB*	21.68

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.40 SIO2 76.34 SUBALKALINE
OL* 2.57 NE* 18.34 Q* 79.09 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 67.54 F 21.70 M 10.76 CALC-ALKALINE
AL2O3 14.92 NORM PLAG 2.85 CALC-ALKALINE
AN 1.56 AB* 53.31 OR 45.13 K-RICH SERIES
CI 3.95 NORM PLAG 2.85 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.59 FE 8.18 MG 6.24

COLOR INDEX : 3.95
HASHIMOTO INDEX : 60.26

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB -10.00:SR 160.00:Y -10.00:ZR 120.00:NB 10.00:BA 1320.00:

COMMENTS : PS117/60NE. FINE GR., MODERATELY SCHISTOSE, PALE SILVERY-GREEN CHLORITE-SERICITE SCHIST. ORANGE-BROWN LIMONITE PATCHES ON FRACTURES (<5%). INTERMEDIATE TO FELSIC COMPOSITION ROCK.

SAMPLE ID # AB17910 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM318 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434190.0 N : 5415100.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	75.20	77.88	73.87
AL2O3	12.10	12.53	14.01
FE2O3	1.70	1.76	1.26
FEO	0.00	0.00	0.00
CAO	1.76	1.82	1.85
MGO	0.97	1.00	1.42
NA2O	2.58	2.67	4.91
K2O	1.94	2.01	2.43
TIO2	0.20	0.21	0.15
P2O5	0.05	0.05	0.04
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.31	0.00	0.00
TOTAL	96.56	100.00	100.00

NORMS	
Q	46.84
C	3.10
OR	12.17
AB	24.57
AN	8.92
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.84
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.10
CR	0.00
HM	1.26
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	2.84
CPX	0.00
AB*	24.57

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.68 SIO2 77.88 SUBALKALINE

OL* 2.87 NE* 19.85 Q* 77.28 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 64.39 F 21.79 M 13.82 CALC-ALKALINE

AL2O3 12.53 NORM PLAG 26.63 THOLEITIC

AN 19.53 AB* 53.81 OR 26.66 K-RICH SERIES

CI 4.20 NORM PLAG 26.63 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.98 FE 8.61 MG 8.41

COLOR INDEX : 4.20
HASHIMOTO INDEX : 40.14

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 70.00:SR 190.00:Y 10.00:ZR 90.00:NB 10.00:BA 810.00:

COMMENTS : PS100/54SW. QTZ-PHYRIC RHYODACITE (LIKELY MORE MASSIVE PHASE OF ASH TUFF AND QTZ-FELDSPAR CRYSTAL TUFF). FELSIC COMP., CLEAR, VITREOUS QTZ. GRAINS (1-2MM, <7%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

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PRINTED 26-JAN-87 20:54:34

SAMPLE ID # AB17911 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM319 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 434173.0 N : 5415163.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 05-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.80	76.64	72.07
AL2O3	14.10	14.45	16.01
FE2O3	1.91	1.78	1.26
FEO	0.00	0.16	0.12
CAO	0.18	0.18	0.19
MGO	0.40	0.41	0.57
NA2O	3.57	3.66	6.67
K2O	2.30	2.36	2.83
TIO2	0.24	0.25	0.17
P2O5	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	97.60	100.00	100.00

NORMS	
Q	42.79
C	6.31
OR	14.15
AB	33.34
AN	0.52
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.15
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.34
CR	0.00
HM	1.26
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	1.15
CPX	0.00
AB*	33.34

CLASSIFICATIONS AND INDICES

NA2O+K2O	6.01	SIO2	76.64	SUBALKALINE		
OL*	1.11	NE*	25.89	Q*	73.00	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	73.48	F	21.51	M	5.01	CALC-ALKALINE
AL2O3	14.45	NORM PLAG	1.54	CALC-ALKALINE		
AN	1.08	AB*	69.44	OR	29.47	K-RICH SERIES
CI	2.75	NORM PLAG	1.54	RHYOLITE		

JENSEN CALC-ALKALINE RHYOLITE
AL 88.01 FE 8.84 MG 3.16

COLOR INDEX : 2.75
HASHIMOTO INDEX : 41.86

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 60.00:SR 130.00:Y 20.00:ZR 120.00:NB 20.00:BA 1110.00:

COMMENTS : PS109/86NE. INTERMEDIATE COMPOSITION QTZ. CRYSTAL TUFF. MATRIX, SILVERY-WHITE IN COLOUR, DOMINANTLY WHITE MICA, WITH MINOR CHLORITE. VITREOUS GREY TO CLEAR QTZ. GRAINS (1.5-2MM, 10%).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17912 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM321 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434163.0 N : 5415220.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,HOMOGENEOUS ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	40.40	43.39	40.14
AL2O3	28.90	31.04	33.84
FE2O3	9.12	3.45	2.40
FEO	0.00	5.71	4.42
CAO	1.30	1.40	1.38
MGO	3.51	3.77	5.20
NA2O	1.00	1.07	1.93
K2O	6.76	7.26	8.58
TIO2	1.71	1.84	1.28
P2O5	0.94	1.01	0.79
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.24	0.00	0.00
TOTAL	93.11	100.00	100.00

NORMS	
Q	1.31
C	23.21
OR	42.89
AB	9.63
AN	0.32
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	10.39
FS	3.98
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	3.60
IL	2.56
CR	0.00
HM	0.00
AP	2.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	14.38
CPX	0.00
AB*	9.63

CLASSIFICATIONS AND INDICES

NA2O+K2O 8.33 SIO2 43.39 ALKALINE
OL* 42.59 NE* 22.82 Q* 34.59 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 39.84 F 42.13 M 18.02 THOLEITIC
AL2O3 31.04 NORM PLAG 3.19 CALC-ALKALINE
AN 0.60 AB* 18.23 OR 81.17 SODIC
CI 20.53 NORM PLAG 3.19 BENMORITE

JENSEN CALC-ALKALINE DACITE
AL 71.72 FE 17.26 MG 11.01

COLOR INDEX : 20.53
HASHIMOTO INDEX : 81.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 120.00:SR 170.00:Y 40.00:ZR 110.00:NB 30.00:BA 3140.00:

COMMENTS : PS096/74SW. FINE GRAINED, LT. TO MED. GREEN, NARROW INTERBED OF CHLORITE SCHIST CONTAINED WITHIN INTERMED. TO FELSIC COMPOSITION QTZ. CRYSTAL TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
20:55:56

SAMPLE ID # AB17913

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM322
LOT : 0 CONCESSION :
GRID COORDINATES : E : 434156.0 N : 5415272.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 00-???-00
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.70	75.99	71.92
AL2O3	15.00	15.47	17.25
FE2O3	1.95	1.81	1.29
FEO	0.00	0.18	0.14
CAO	0.13	0.13	0.14
MGO	0.51	0.53	0.74
NA2O	2.43	2.51	4.60
K2O	2.93	3.02	3.65
TIO2	0.26	0.27	0.19
P2O5	0.07	0.07	0.06
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	96.99	100.00	100.00

NORMS	
Q	46.35
C	8.93
OR	18.26
AB	22.99
AN	0.20
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.48
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.33
CR	0.00
HM	1.29
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.03
AG	0.00
OL	0.00
OPX	1.48
CPX	0.00
AB*	22.99

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.53 SIO2 75.99 SUBALKALINE
OL* 1.57 NE* 19.47 Q* 78.96 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 70.30 F 23.01 M 6.69 CALC-ALKALINE
AL2O3 15.47 NORM PLAG 0.85 CALC-ALKALINE
AN 0.47 AB* 55.47 OR 44.06 K-RICH SERIES
CI 3.10 NORM PLAG 0.85 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 87.84 FE 8.39 MG 3.78

COLOR INDEX : 3.10
HASHIMOTO INDEX : 57.33

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 90.00:SR 200.00:Y -10.00:ZR 120.00:NB 10.00:BA 820.00:

COMMENTS : PS134/86SW. INTERMEDIATE TO FELSIC COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF. MATRIX IS COMPOSED DOMINANTLY OF WHITE MICA WITH MINOR CHLORITE. QTZ. IS CLEAR, VITREOUS (2MM, <7%). FELDSPAR (3MM,10-12%). PY (1MM,7%) ASSOCIATED WITH LIMONITE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17914 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM323 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434155.0 N : 5415365.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	67.00	69.21	64.23
AL2O3	17.20	17.77	19.43
FE2O3	2.66	1.85	1.29
FEO	0.00	0.81	0.63
CAO	2.45	2.53	2.52
MGO	0.86	0.89	1.23
NA2O	4.16	4.30	7.73
K2O	2.16	2.23	2.64
TIO2	0.29	0.30	0.21
P2O5	0.06	0.06	0.05
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	96.80	100.00	100.00

NORMS	
Q	27.00
C	4.19
OR	13.22
AB	38.66
AN	12.18
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.46
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.38
IL	0.42
CR	0.00
HM	0.37
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.46
CPX	0.00
AB*	38.66

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.53 SIO2 69.21 SUBALKALINE
OL* 2.71 NE* 34.05 Q* 63.24 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 66.02 F 25.00 M 8.98 CALC-ALKALINE
AL2O3 17.77 NORM PLAG 23.95 CALC-ALKALINE
AN 19.01 AB* 60.35 OR 20.64 AVERAGE SERIES
CI 4.63 NORM PLAG 23.95 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 85.12 FE 9.50 MG 5.38

COLOR INDEX : 4.63
HASHIMOTO INDEX : 31.36

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB -10.00:SR 630.00:Y -10.00:ZR 140.00:NB -10.00:BA 970.00:

COMMENTS : PS110/58SW. INTERMEDIATE TO FELSIC COMP. QTZ-FELDSPAR CRYSTAL TUFF. MATRIX IS COMP MAINLY OF CHALKY WHITE MICA AND AGGREG. OF WHITE MICA AND CHLORITE (>70%). FELDSPAR ANGULAR TO EQUANT (1-2MM, <10%). QTZ. (1-2MM, <5%), VITREOUS.

SAMPLE ID # AB17915 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM324 PROJECT #
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT :
UTM ZONE : 10 GRID COORDINATES : E : 434147.0 N : 5415395.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.90	73.12	68.35
AL2O3	16.70	17.22	18.98
FE2O3	1.36	1.40	0.99
FEO	0.00	0.00	0.00
CAO	0.94	0.97	0.97
MGO	0.48	0.49	0.69
NA2O	3.32	3.42	6.20
K2O	2.85	2.94	3.51
TIO2	0.31	0.32	0.22
P2O5	0.07	0.07	0.06
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.93	0.00	0.00
TOTAL	96.97	100.00	100.00

NORMS	
Q	36.77
C	7.51
OR	17.54
AB	31.02
AN	4.38
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.38
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.07
CR	0.00
HM	0.99
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.19
AG	0.00
OL	0.00
OPX	1.38
CPX	0.00
AB*	31.02

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.36 SIO2 73.12 SUBALKALINE
OL* 1.50 NE* 26.91 Q* 71.59 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 78.36 F 15.54 M 6.10 CALC-ALKALINE
AL2O3 17.22 NORM PLAG 12.37 CALC-ALKALINE
AN 8.27 AB* 58.60 OR 33.14 K-RICH SERIES
CI 2.43 NORM PLAG 12.37 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 90.75 FE 5.95 MG 3.30

COLOR INDEX : 2.43
HASHIMOTO INDEX : 43.87

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB -10.00:SR 280.00:Y -10.00:ZR 140.00:NB 10.00:BA 1560.00:

COMMENTS : PS115/72NE. AS DESCRIBED IN AB17914.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 PAGE 1
PRINTED 26-JAN-87
20:57:58

SAMPLE ID # AB17916 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM325 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434145.0 N : 5415462.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	64.80	68.69	64.14	Q	29.76
AL2O3	16.00	16.96	18.67	C	4.78
FE2O3	3.06	1.87	1.31	OR	16.56
FEO	0.00	1.24	0.97	AB	26.00
CAO	2.64	2.80	2.80	AN	13.44
MGO	2.23	2.36	3.29	LC	0.00
NA2O	2.71	2.87	5.20	NE	0.00
K2O	2.62	2.78	3.31	KP	0.00
TIO2	0.26	0.28	0.19	AC	0.00
P2O5	0.08	0.08	0.07	DI	0.00
MNO	0.07	0.07	0.06	HE	0.00
S	0.00	0.00	0.00	EN	6.58
NIO	0.00	0.00	0.00	FS	0.36
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	4.00	0.00	0.00	MT	1.97
				IL	0.39
TOTAL	94.34	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.18
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				OL	0.00
				OPX	6.93
				CPX	0.00
				AB*	26.00

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.65 SIO2 68.69 SUBALKALINE
OL* 8.30 NE* 24.88 Q* 66.82 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 51.68 F 26.70 M 21.62 CALC-ALKALINE
AL2O3 16.96 NORM PLAG 34.08 CALC-ALKALINE
AN 24.00 AB* 46.43 OR 29.57 K-RICH SERIES
CI 9.29 NORM PLAG 34.08 DACITE

JENSEN CALC-ALKALINE DACITE
AL 76.23 FE 10.34 MG 13.43

COLOR INDEX : 9.29
HASHIMOTO INDEX : 47.55

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 70.00:SR 170.00:Y -10.00:ZR 110.00:NB 10.00:BA 950.00:

COMMENTS : PS120/71NE. FINE GRAINED, PALE SILVERY-WHITE-GREEN CHLORITE-SERICITE SCHIST. ROCK IS INTERMEDIATE COMPOSITION ASH (FINE GRAINED MATRIX TO FELDSPAR CRYSTAL TUFF).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
20:58:38

SAMPLE ID # AB17917

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM326
LOT : 0 CONCESSION :
GRID COORDINATES : E : 434170.0 N : 5415610.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ PORPHYRITIC,TECTONIZED,CRYSTAL.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	80.10	82.78	79.82
AL2O3	11.30	11.68	13.27
FE2O3	1.94	1.73	1.25
FEO	0.00	0.25	0.20
CAO	0.08	0.08	0.09
MGO	0.79	0.82	1.17
NA2O	1.56	1.61	3.01
K2O	0.77	0.80	0.98
TIO2	0.17	0.18	0.13
P2O5	0.03	0.03	0.03
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	96.76	100.00	100.00

NORMS	
Q	66.58
C	9.19
OR	4.90
AB	15.07
AN	0.22
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.35
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.35
IL	0.25
CR	0.00
HM	1.02
AP	0.07
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.35
CPX	0.00
AB*	15.07

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.41 SIO2 82.78 SUBALKALINE
OL* 2.10 NE* 10.76 Q* 87.14 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 47.89 F 35.88 M 16.24 THOLEITIC
AL2O3 11.68 NORM PLAG 1.41 THOLEITIC
AN 1.07 AB* 74.66 OR 24.28 AVERAGE SERIES
CI 3.97 NORM PLAG 1.41 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.59 FE 10.11 MG 7.30

COLOR INDEX : 3.97
HASHIMOTO INDEX : 48.75

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 40.00:SR 620.00:Y -10.00:ZR 70.00:NB 20.00:BA 990.00:

COMMENTS : PS113/86SW. FELSIC COMPOSITION QTZ. CRYSTAL TUFF. SILVER-WHITE, FINE GRAINED TO APHANITIC CRYSTALLINITY, AGGREGATE OF QTZ. AND WHITE MICA (>90%). EQUANT, CLEAR, VITREOUS QTZ. GRAINS (2MM, <5%). LIMONITE BLEBS/DISSEMS. TO 10 X 3MM, 5%.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17918 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM327 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434170.0 N : 5415525.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 05-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	52.10	55.70	52.78
AL2O3	18.90	20.21	22.57
FE2O3	14.40	2.58	1.84
FEO	0.00	11.54	9.14
CAO	0.33	0.35	0.36
MGO	5.28	5.65	7.97
NA2O	1.73	1.85	3.40
K2O	0.77	0.82	1.00
TIO2	0.91	0.97	0.69
P2O5	0.14	0.15	0.12
MNO	0.17	0.18	0.15
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.00	0.00	0.00
TOTAL	93.53	100.00	100.00

NORMS	
Q	23.63
C	17.86
OR	4.98
AB	16.99
AN	0.79
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	15.94
FS	15.35
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.76
IL	1.39
CR	0.00
HM	0.00
AP	0.32
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	31.29
CPX	0.00
AB*	16.99

CLASSIFICATIONS AND INDICES

NA2O+K2O 2.67 SIO2 55.70 SUBALKALINE

OL* 32.63 NE* 14.17 Q* 53.19 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 12.06 F 62.48 M 25.46 THOLEITIC

AL2O3 20.21 NORM PLAG 4.44 CALC-ALKALINE

AN 3.46 AB* 74.65 OR 21.89 AVERAGE SERIES

CI 35.43 NORM PLAG 4.44 ANDESITE

JENSEN CALC-ALKALINE BASALT
AL 53.28 FE 27.90 MG 18.82

COLOR INDEX : 35.43
HASHIMOTO INDEX : 74.60

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 40.00:SR 280.00:Y 10.00:ZR 40.00:NB 20.00:BA 370.00:

COMMENTS : PS111/36NE. FINE GRAINED, DK. GREEN, HOMOGENEOUS CHLORITE SCHIST. ACRYSTALLINE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17919 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM328 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 432663.0 N : 5415485.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	77.80	79.83	75.74
AL2O3	11.20	11.49	12.85
FE2O3	2.15	1.80	1.28
FEO	0.00	0.37	0.29
CAO	0.51	0.52	0.53
MGO	0.98	1.01	1.42
NA2O	3.13	3.21	5.91
K2O	1.36	1.40	1.69
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.46	100.00	100.00

NORMS	
Q	50.62
C	4.35
OR	8.45
AB	29.54
AN	2.25
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.84
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.48
IL	0.37
CR	0.00
HM	0.96
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.84
CPX	0.00
AB*	29.54

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.61 SIO2 79.83 SUBALKALINE
OL* 2.57 NE* 21.35 Q* 76.08 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 60.64 F 26.13 M 13.24 CALC-ALKALINE
AL2O3 11.49 NORM PLAG 7.07 THOLEITIC
AN 5.58 AB* 73.40 OR 21.01 AVERAGE SERIES
CI 4.65 NORM PLAG 7.07 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 79.92 FE 11.24 MG 8.84

COLOR INDEX : 4.65
HASHIMOTO INDEX : 39.13

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 30.00:SR 70.00:Y 10.00:ZR 130.00:NB 10.00:BA 750.00:

COMMENTS : PS109/51NE. INTERMEDIATE TO FELSIC COMPOSITION FELDSPAR CRYSTAL TUFF. DISTINCTIVE BANDING CAUSED BY VARIATION IN ASH COMPOSITION. BANDS ARE LT. GREEN TO WHITE AND RANGE FROM 1 TO 10CM IN THICKNESS.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17920 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM329 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 432232.0 N : 5415710.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SIO2	72.30	74.41	69.29	Q	30.37
AL2O3	13.70	14.10	15.48	C	1.08
FE2O3	1.82	1.84	1.29	OR	18.67
FEO	0.00	0.03	0.02	AB	41.90
CAO	1.19	1.22	1.22	AN	5.70
MGO	0.21	0.22	0.30	LC	0.00
NA2O	4.51	4.64	8.38	NE	0.00
K2O	3.05	3.14	3.73	KP	0.00
TIO2	0.29	0.30	0.21	AC	0.00
P2O5	0.06	0.06	0.05	DI	0.00
MNO	0.04	0.04	0.03	HE	0.00
S	0.00	0.00	0.00	EN	0.60
NIO	0.00	0.00	0.00	FS	0.00
CR2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	1.39	0.00	0.00	MT	0.00
				IL	0.11
TOTAL	97.17	100.00	100.00	CR	0.00
				HM	1.29
				AP	0.13
				PO	0.00
				NS	0.00
				KS	0.00
				RU	0.15
				AG	0.00
				OL	0.00
				OPX	0.60
				CPX	0.00
				AB*	41.90

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.78 SIO2 74.41 SUBALKALINE
OL* 0.62 NE* 34.50 Q* 64.88 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 80.36 F 17.41 M 2.23 CALC-ALKALINE
AL2O3 14.10 NORM PLAG 11.98 CALC-ALKALINE
AN 8.61 AB* 63.23 OR 28.17 K-RICH SERIES
CI 2.00 NORM PLAG 11.98 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 89.30 FE 8.97 MG 1.73

COLOR INDEX : 2.00
HASHIMOTO INDEX : 36.38

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 50.00:SR 220.00:Y 30.00:ZR 130.00:NB 10.00:BA 1530.00:

COMMENTS : PS124/87NE. FINE GR., CREAM WHITE, FELSIC COMPOSITION QTZ-FELDSPAR CRYSTAL TUFF. CLEAR, VITREOUS QTZ. GRAINS (2MM, <2%). FELDSPAR GRAINS (1-2MM, <7%), FLESH TO WHITE COLOURED. CHLORITIZED FELDSPAR GRAINS/ACTINOLITE (1-2MM, 10%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
21:01:22

SAMPLE ID # AB17921 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM330 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 432195.0 N : 5415726.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 06-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.20	74.21	68.61
AL2O3	14.10	14.29	15.58
FE2O3	1.74	1.76	1.23
FEO	0.00	0.00	0.00
CAO	1.17	1.19	1.18
MGO	0.16	0.16	0.22
NA2O	5.62	5.70	10.21
K2O	2.24	2.27	2.68
TIO2	0.32	0.32	0.23
P2O5	0.06	0.06	0.05
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.16	0.00	0.00
TOTAL	98.64	100.00	100.00

NORMS	
Q	27.51
C	0.49
OR	13.41
AB	51.06
AN	5.48
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.45
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.05
CR	0.00
HM	1.23
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.20
AG	0.00
OL	0.00
OPX	0.45
CPX	0.00
AB*	51.06

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.97 SIO2 74.21 SUBALKALINE
OL* 0.42 NE* 38.77 Q* 60.81 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 82.00 F 16.33 M 1.67 CALC-ALKALINE
AL2O3 14.29 NORM PLAG 9.69 CALC-ALKALINE
AN 7.83 AB* 73.00 OR 19.17 AVERAGE SERIES
CI 1.72 NORM PLAG 9.69 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 90.16 FE 8.55 MG 1.29

COLOR INDEX : 1.72
HASHIMOTO INDEX : 26.12

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 30.00:SR 210.00:Y -10.00:ZR 120.00:NB 20.00:BA 1740.00:

COMMENTS : PS120/53NE. FINE GR., FELSIC COMPOSITION, QTZ-FELDSPAR-ACTINOLITE(?) CRYSTAL TUFF. SNOW WHITE QTZ., AND WHITE MICA MATRIX (>80%). LIMONITIC SEAMS (1MM) ALTERNATE WITH FELSIC MATRIX (3-4MM).

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
21:02:03

SAMPLE ID # AB17922 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM333 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 432085.0 N : 5415805.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	69.00	71.84	67.62
AL2O3	15.00	15.62	17.33
FE2O3	3.23	1.92	1.36
FEO	0.00	1.30	1.03
CAO	1.07	1.11	1.12
MGO	1.91	1.99	2.79
NA2O	2.35	2.45	4.46
K2O	3.12	3.25	3.90
TIO2	0.34	0.35	0.25
P2O5	0.07	0.07	0.06
MNO	0.10	0.10	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.00	0.00	0.00
TOTAL	96.05	100.00	100.00

NORMS	
Q	37.49
C	6.90
OR	19.52
AB	22.32
AN	5.13
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.58
FS	0.36
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.04
IL	0.50
CR	0.00
HM	0.00
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	5.94
CPX	0.00
AB*	22.32

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.69 SIO2 71.84 SUBALKALINE
OL* 6.77 NE* 20.37 Q* 72.86 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 53.18 F 28.25 M 18.57 CALC-ALKALINE
AL2O3 15.62 NORM PLAG 18.69 CALC-ALKALINE
AN 10.93 AB* 47.52 OR 41.56 K-RICH SERIES
CI 8.47 NORM PLAG 18.69 DACITE

JENSEN CALC-ALKALINE DACITE
AL 75.89 FE 11.89 MG 12.22

COLOR INDEX : 8.47
HASHIMOTO INDEX : 59.53

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 100.00:SR 140.00:Y 30.00:ZR 140.00:NB 20.00:BA 1240.00:

COMMENTS : PS117/85SW. INTERMEDIATE COMPOSITION FELDSPAR CRYSTAL TUFF. MATRIX IS BROWN-GREEN, COMPOSED OF FINE GRAINED CHLORITE AND STAINED WHITE MICA. IS GRADATIONAL ROCK TO AB17921. CONTAINS BANDS OF FELSIC COMP. QTZ-FELDSPAR CRYSTAL TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 26-JAN-87 21:02:43

SAMPLE ID # AB17923 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM335 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 432015.0 N : 5415850.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,BLOCK ,FELDSPAR PORPHYRITIC,CRYSTAL ,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 06-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.30	71.30	66.28
AL2O3	14.50	14.71	16.11
FE2O3	3.56	1.88	1.31
FEO	0.00	1.56	1.21
CAO	2.62	2.66	2.65
MGO	1.85	1.88	2.60
NA2O	4.71	4.78	8.61
K2O	0.66	0.67	0.79
TIO2	0.35	0.35	0.25
P2O5	0.07	0.07	0.06
MNO	0.15	0.15	0.12
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.77	0.00	0.00
TOTAL	98.60	100.00	100.00

NORMS	
Q	29.94
C	1.60
OR	3.97
AB	43.05
AN	12.77
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.20
FS	0.86
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.97
IL	0.50
CR	0.00
HM	0.00
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	6.06
CPX	0.00
AB*	43.05

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.45 SIO2 71.30 SUBALKALINE
OL* 5.75 NE* 32.68 Q* 61.57 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 51.52 F 30.73 M 17.75 THOLEITIC
AL2O3 14.71 NORM PLAG 22.88 CALC-ALKALINE
AN 21.36 AB* 72.00 OR 6.65 K-POOR SERIES
CI 8.52 NORM PLAG 22.88 DACITE

JENSEN CALC-ALKALINE DACITE
AL 74.58 FE 13.39 MG 12.03

COLOR INDEX : 8.52
HASHIMOTO INDEX : 25.51

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 40.00:SR 240.00:Y 10.00:ZR 140.00:NB 10.00:BA 410.00:

COMMENTS : PS118/79NE. POSSIBLE BLOCK-ASH PYROCLASTIC FLOW. INTERMEDIATE TO FELSIC COMPOSITION, POSSIBLE BLOCK, (2 X >3CM), COMPOSED OF WHITE MICA AND QTZ., SET IN FELDSPAR CRYSTAL TUFF MATRIX.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
21:03:24

SAMPLE ID # AB17924 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM337 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 432202.0 N : 5415675.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,FELSIC,FINE,APHYRIC,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 06-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	68.00	70.68	66.67
AL2O3	13.90	14.45	16.06
FE2O3	4.00	1.84	1.31
FEO	0.00	2.09	1.65
CAO	3.25	3.38	3.41
MGO	2.80	2.91	4.09
NA2O	2.17	2.26	4.13
K2O	1.86	1.93	2.33
TIO2	0.27	0.28	0.20
P2O5	0.08	0.08	0.07
MNO	0.10	0.10	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.46	0.00	0.00
TOTAL	96.21	100.00	100.00

NORMS	
Q	35.74
C	3.00
OR	11.65
AB	20.63
AN	16.52
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	8.18
FS	1.75
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.96
IL	0.40
CR	0.00
HM	0.00
AP	0.18
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	9.94
CPX	0.00
AB*	20.63

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.19 SIO2 70.68 SUBALKALINE
OL* 11.24 NE* 18.67 Q* 70.09 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 38.64 F 34.51 M 26.85 THOLEITIC
AL2O3 14.45 NORM PLAG 44.47 THOLEITIC
AN 33.86 AB* 42.27 OR 23.87 K-RICH SERIES
CI 12.29 NORM PLAG 44.47 ANDESITE

JENSEN CALC-ALKALINE ANDESITE
AL 68.68 FE 13.82 MG 17.49

COLOR INDEX : 12.29
HASHIMOTO INDEX : 46.23

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 50.00:SR 230.00:Y 10.00:ZR 100.00:NB 20.00:BA 860.00:

COMMENTS : PS113/87NE. FINE GR., TRANSLUCENT, PALE GREEN, FINELY LAMINATED RHYOLITIC-RHYODACITIC TUFF?

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
21:04:05

SAMPLE ID # AB17925 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 — FIELD NUMBER : 86116DM338 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 432225.0 N : 5415650.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,HOMOGENEOUS ,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : D. MALLALIEU. — DATE : 06-AUG-86
ANALYZED BY : XRAL — DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	62.10	67.87	66.17
AL2O3	11.00	12.02	13.81
FE2O3	12.90	2.07	1.52
FEO	0.00	10.83	8.83
CAO	0.87	0.95	0.99
MGO	1.29	1.41	2.05
NA2O	1.28	1.40	2.64
K2O	2.57	2.81	3.50
TIO2	0.39	0.43	0.31
P2O5	0.12	0.13	0.11
MNO	0.08	0.09	0.07
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.62	0.00	0.00
TOTAL	91.50	100.00	100.00

NORMS	
Q	36.24
C	6.05
OR	17.49
AB	13.22
AN	4.06
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.10
FS	15.66
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.27
IL	0.63
CR	0.00
HM	0.00
AP	0.29
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	19.76
CPX	0.00
AB*	13.22

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.21 SIO2 67.87 SUBALKALINE
OL* 21.41 NE* 11.46 Q* 67.13 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 22.99 F 69.31 M 7.70 THOLEITIC
AL2O3 12.02 NORM PLAG 23.51 THOLEITIC
AN 11.68 AB* 38.02 OR 50.29 K-RICH SERIES
CI 22.65 NORM PLAG 23.51 ANDESITE

JENSEN THOLEIITIC ANDESITE
AL 51.95 FE 40.34 MG 7.70

COLOR INDEX : 22.65
HASHIMOTO INDEX : 64.23

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	40.00:CU	520.00:ZN	27.00:RB	-10.00:SR	120.00:Y	10.00:ZR	110.00:NB	20.00:AG	3.00:
BA	2040.00:PB	-2.00:							

COMMENTS : PS126/81NE. HIGHLY GOSSANOUS FELSIC (SERICITIC) INTERBED, HOSTED WITHIN INTERMEDIATE COMP. FELDSPAR CRYSTAL TUFF (AB17926). ROCK HAS RANDOMLY DISTRIBUTED DISSEMINATIONS OF PYRITE (0.7MM, <2%).

SAMPLE ID # AB17926 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM339 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 4322404.0 N : 5415640.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,TECTONIZED,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	64.20	66.95	62.70
AL203	14.20	14.81	16.35
FE203	5.06	2.00	1.41
FEO	0.00	2.95	2.31
CAO	3.15	3.29	3.30
MGO	4.46	4.65	6.49
NA20	2.17	2.26	4.11
K20	2.21	2.30	2.76
TI02	0.42	0.44	0.31
P205	0.13	0.14	0.11
MNO	0.20	0.21	0.17
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	3.00	0.00	0.00
TOTAL	95.89	100.00	100.00

NORMS	
Q	27.92
C	3.25
OR	13.78
AB	20.54
AN	15.58
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	12.98
FS	2.92
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.12
IL	0.62
CR	0.00
HM	0.00
AP	0.29
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	15.90
CPX	0.00
AB*	20.54

CLASSIFICATIONS AND INDICES

NA20+K20 4.57 SI02 66.95 SUBALKALINE
OL* 18.53 NE* 19.15 Q* 62.32 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 32.70 F 34.00 M 33.30 THOLEITIC
AL203 14.81 NORM PLAG 43.14 THOLEITIC
AN 31.22 AB* 41.16 OR 27.61 K-RICH SERIES
CI 18.64 NORM PLAG 43.14 ANDESITE

JENSEN CALC-ALKALINE ANDESITE
AL 60.47 FE 15.51 MG 24.02

COLOR INDEX : 18.64
HASHIMOTO INDEX : 55.63

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB 60.00:SR 220.00:Y 20.00:ZR 80.00:NB 20.00:BA 1470.00:

COMMENTS : PS121/83NE. ANDESITIC COMPOSITION TUFF. COMPOSED OF FINE GR. CHLORITE-QTZ. AGGREGATE (90%). RANDOMLY DISTRIBUTED THROUGHOUT ARE GREENISH-WHITE FELDSPAR GRAINS (0.5MM, <5%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
21:05:27

SAMPLE ID # AB17927

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075
TOWNSHIP :
NTS : 092B13
UTM ZONE : 10
SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 86116DM340
LOT : 0 CONCESSION :
GRID COORDINATES : E : 433240.0 N : 5415230.0 EL : 0.0

PROJECT # 1116
PROVINCE : BRITISH COLUMBIA
PROJECT : CHEMAINUS J.V. (ESSO)

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU.
ANALYZED BY : XRAL

DATE : 06-AUG-86
DATE : 08-SEP-86

ANALYTICAL
TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.50	75.00	69.85
AL2O3	13.70	14.17	15.56
FE2O3	1.76	1.81	1.27
FEO	0.00	0.01	0.01
CAO	0.41	0.42	0.42
MGO	1.85	1.91	2.66
NA2O	3.84	3.97	7.17
K2O	2.30	2.38	2.83
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	96.67	100.00	100.00

NORMS	
Q	36.50
C	4.87
OR	14.15
AB	35.86
AN	1.71
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	5.31
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.01
CR	0.00
HM	1.27
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.17
AG	0.00
OL	0.00
OPX	5.31
CPX	0.00
AB*	35.86

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.35 SIO2 75.00 SUBALKALINE

OL* 5.13 NE* 27.70 Q* 67.17 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 64.13 F 16.54 M 19.32 CALC-ALKALINE

AL2O3 14.17 NORM PLAG 4.55 CALC-ALKALINE

AN 3.30 AB* 69.34 OR 27.36 K-RICH SERIES

CI 6.60 NORM PLAG 4.55 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 79.09 FE 7.41 MG 13.50

COLOR INDEX : 6.60
HASHIMOTO INDEX : 49.40

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	20.00:BE	-10.00:B	30.00:SC	3.80:V	20.00:CR	3.00:MN	340.00:CO	2.00:
NI	2.00:CU	10.00:ZN	37.00:GE	-10.00:AS	-2.00:SE	-3.00:BR	1.00:RB	40.00:SR	150.00:
Y	40.00:ZR	110.00:NB	10.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	-1.50:BA	1040.00:
LA	14.20:CE	25.00:ND	8.00:SM	1.70:EU	0.70:YB	1.50:LU	0.36:HF	4.00:TA	-1.00:
W	-3.00:PB	4.00:BI	-0.50:TH	3.50:U	2.30:				

COMMENTS : PS122/77NE. FELSIC COMP. QTZ-FELDSPAR CRYSTAL TUFF. MATRIX IS SILVER-WHITE, FINE GR. (>75%). RANDOMLY DIST./ORIENTED THROUGHOUT QTZ. GRAINS (SNOW WHITE AND CLEAR), 1MM, <3%. FELDSPAR (1-2MM, 10-12%). PERTURBATIONS IN SCHIST.

SAMPLE ID # AB17928 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM341A PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 433576.0 N : 5414687.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-AUG-86
ANALYZED BY : XRAL DATE : 08-SEP-86
ANALYTICAL TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.00	75.66	71.23
AL203	14.60	15.13	16.79
FE203	1.52	1.58	1.12
FEO	0.00	0.00	0.00
CAO	0.43	0.45	0.45
MGO	0.67	0.69	0.97
NA20	2.79	2.89	5.28
K20	3.12	3.23	3.89
TIO2	0.24	0.25	0.18
P205	0.11	0.11	0.09
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	96.48	100.00	100.00

NORMS	
Q	42.16
C	7.03
OR	19.44
AB	26.39
AN	1.49
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.95
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	1.12
AP	0.24
PO	0.00
NS	0.00
KS	0.00
RU	0.18
AG	0.00
OL	0.00
OPX	1.95
CPX	0.00
AB*	26.39

CLASSIFICATIONS AND INDICES

NA20+K20	6.13	SIO2	75.66	SUBALKALINE	
OL*	2.07	NE*	22.46	Q*	75.47	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	74.36	F	17.21	M	8.43	CALC-ALKALINE
AL203	15.13	NORM PLAG	5.34	CALC-ALKALINE	
AN	3.15	AB*	55.77	OR	41.08	K-RICH SERIES
CI	3.06	NORM PLAG	5.34	RHYOLITE	

JENSEN CALC-ALKALINE RHYOLITE
AL 88.11 FE 6.78 MG 5.11

COLOR INDEX : 3.06
HASHIMOTO INDEX : 54.07

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	10.00:BE	-10.00:B	70.00:SC	3.40:V	30.00:CR	2.00:MN	760.00:CO	4.00:
NI	3.00:CU	120.00:ZN	5300.00:GE	-10.00:AS	57.00:SE	-3.00:BR	1.00:RB	80.00:SR	40.00:
Y	10.00:ZR	100.00:NB	30.00:MO	-5.00:AG	-0.50:CD	7.20:SB	4.30:CS	2.50:BA	1040.00:
LA	15.70:CE	23.00:ND	9.00:SM	1.60:EU	-0.30:YB	1.60:LU	0.38:HF	3.00:TA	-1.00:
W	-3.00:PB	110.00:BI	-0.50:TH	4.90:U	2.80:				

COMMENTS : PS141/88NE. RHYOLITIC COMP. QTZ-FELDSPAR CRYSTAL TUFF. MATRIX IS LT. GREY-GREEN, APHANITIC CRYSTALLINITY (>75%). FELDSPARS (50% ALTERED BY VOLUME), 2MM, 15%, ALTERATION FROM CORE TO RIM. QTZ. SUBEQUANT, BLACK (1MM, <3%).

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17929 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29075 FIELD NUMBER : 86116DM341B PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 433576.0 N : 5414687.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,QUARTZ AND FELDSPAR PORPHYRITIC,CRYSTAL ,TECTONIZED.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 08-SEP-86 TECHNIQUE : XRF + NA + DCP

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	73.30	75.48	70.96
AL2O3	15.30	15.76	17.46
FE2O3	1.22	1.26	0.89
FEO	0.00	0.00	0.00
CAO	0.30	0.31	0.31
MGO	0.46	0.47	0.66
NA2O	2.85	2.93	5.35
K2O	3.30	3.40	4.08
TIO2	0.26	0.27	0.19
P2O5	0.12	0.12	0.10
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.16	0.00	0.00
TOTAL	97.11	100.00	100.00

NORMS	
Q	41.72
C	7.74
OR	20.40
AB	26.74
AN	0.73
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.33
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	0.89
AP	0.26
PO	0.00
NS	0.00
KS	0.00
RU	0.19
AG	0.00
OL	0.00
OPX	1.33
CPX	0.00
AB*	26.74

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.33 SIO2 75.48 SUBALKALINE
OL* 1.43 NE* 22.99 Q* 75.58 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 79.79 F 14.24 M 5.97 CALC-ALKALINE
AL2O3 15.76 NORM PLAG 2.67 CALC-ALKALINE
AN 1.53 AB* 55.86 OR 42.61 K-RICH SERIES
CI 2.22 NORM PLAG 2.67 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 90.93 FE 5.61 MG 3.46

COLOR INDEX : 2.22
HASHIMOTO INDEX : 54.41

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

AU	-10.00:LI	10.00:BE	-10.00:B	70.00:SC	3.70:V	30.00:CR	-2.00:MN	980.00:CO	5.00:
NI	2.00:CU	120.00:ZN	4500.00:GE	-10.00:AS	76.00:SE	-3.00:BR	1.00:RB	80.00:SR	30.00:
Y	-10.00:ZR	110.00:NB	20.00:MO	-5.00:AG	-0.50:CD	8.80:SB	6.80:CS	2.90:BA	1170.00:
LA	15.20:CE	22.00:ND	10.00:SM	1.60:EU	0.50:YB	1.70:LU	0.41:HF	3.00:TA	-1.00:
W	-3.00:PB	72.00:BI	-0.50:TH	4.70:U	3.10:				

COMMENTS : PS141/88NE. AS DESCRIBED IN AB17928. ALTERATION OF FELDSPARS IS 90% COMPLETE PER GRAIN VOLUME.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87 21:07:38

SAMPLE ID # AB17930 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29399 — FIELD NUMBER : 86116PW243 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 92C16 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 425245.0 N : 5420315.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,ASH,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : P.WHITING — DATE : 30-JUL-86
ANALYZED BY : XRAL — DATE : 02-OCT-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	61.50	64.93	62.12
AL2O3	17.10	18.05	20.36
FE2O3	7.57	2.29	1.65
FEO	0.00	5.13	4.10
CAO	0.19	0.20	0.21
MGO	1.29	1.36	1.94
NA2O	0.53	0.56	1.04
K2O	5.96	6.29	7.69
TIO2	0.67	0.71	0.51
P2O5	0.42	0.44	0.36
MNO	0.03	0.03	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	4.70	0.00	0.00
TOTAL	94.72	100.00	100.00

NORMS	
Q	31.99
C	12.42
OR	38.44
AB	5.19
AN	0.99
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.88
FS	5.59
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.47
IL	1.02
CR	0.00
HM	0.00
AP	0.96
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	9.48
CPX	0.00
AB*	5.19

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.85 SIO2 64.93 SUBALKALINE

OL* 15.23 NE* 6.67 Q* 78.09 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 44.48 F 46.68 M 8.84 THOLEITIC

AL2O3 18.05 NORM PLAG 0.00 CALC-ALKALINE

AN 0.00 AB* 11.89 OR 88.11 K-RICH SERIES

CI 12.97 NORM PLAG 0.00 RHYOLITE

JENSEN THOLEIITIC RHYOLITE
AL 71.21 FE 22.00 MG 6.79

COLOR INDEX : 12.97
HASHIMOTO INDEX : 90.97

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	RB	SR	Y	ZR	NB	BA	
	20.00:	160.00:	10.00:	-10.00:	150.00:	40.00:	2430.00:

COMMENTS : ROCK HAS MODERATE PLANAR FABRIC WITH SLIGHT GENTLE FOLDS. VERY RUSTY OTC. POSSIBLE QTZ EYES BOXWORK TEXTURE FROM WEATHERED OUT PY OBSERVED.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
21:08:18

SAMPLE ID # AB17931 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29399 — FIELD NUMBER : 86116PW244 — PROJECT # 1116
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 92B13 — PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 — GRID COORDINATES : E : 425270.0 N : 5420305.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : METAMORPHIC ,INTERMEDIATE,FINE,CHLORITE,SCHIST,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : METAMORPHOSED ,CHLORITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : P. WHITING — DATE : 30-JUL-86
ANALYZED BY : XRAL — DATE : 02-OCT-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	47.20	51.48	47.97
AL2O3	16.70	18.21	20.00
FE2O3	13.50	2.45	1.72
FEO	0.00	11.04	8.60
CAO	4.13	4.50	4.50
MGO	4.53	4.94	6.86
NA2O	3.36	3.66	6.62
K2O	2.01	2.19	2.61
TIO2	0.75	0.82	0.57
P2O5	0.36	0.39	0.31
MNO	0.27	0.29	0.23
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	6.00	0.00	0.00
TOTAL	91.68	100.00	100.00

NORMS	
Q	0.00
C	2.82
OR	13.04
AB	33.10
AN	19.90
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	9.99
FS	10.77
FO	2.80
FA	3.02
WO	0.00
LN	0.00
MT	2.58
IL	1.15
CR	0.00
HM	0.00
AP	0.83
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	5.83
OPX	20.76
CPX	0.00
AB*	33.10

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.86 SIO2 51.48 ALKALINE

OL* 35.85 NE* 33.27 Q* 30.88 SUBALKALINE

CPX 0.00 OL 21.92 OPX 78.08 SUBALKALINE

A 24.36 F 55.10 M 20.55 THOLEITIC

AL2O3 18.21 NORM PLAG 37.55 CALC-ALKALINE

AN 30.13 AB* 50.12 OR 19.75 SODIC

CI 30.31 NORM PLAG 37.55 HAWAIITE

JENSEN THOLEIITIC ANDESITE
AL 52.65 FE 29.29 MG 18.06

COLOR INDEX : 30.31
HASHIMOTO INDEX : 46.61

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	40.00:RB	50.00:SR	570.00:Y	20.00:ZR	50.00:NB	30.00:BA	880.00:

COMMENTS : ROCK INRERP. TO BE METAMORPHOSED INTERMEDIATE LAPILLI TUFF WITH OCCASIONAL FSP XTALS -2MM. LAPILLI CHLORITIZED $PS124/84NE. PY EUHEDR. XTALS UP TO 3MM 2%. KINK FOLDING ALSO OBSERVED.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17933 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29399 FIELD NUMBER : 86116PW265 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 92B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434775.0 N : 5415125.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : P. WHITING DATE : 01-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 02-OCT-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	82.60	84.00	80.30
AL2O3	9.30	9.46	10.66
FE2O3	1.18	1.20	0.86
FEO	0.00	0.00	0.00
CAO	0.24	0.24	0.25
MGO	0.46	0.47	0.67
NA2O	2.72	2.77	5.13
K2O	1.56	1.59	1.94
TIO2	0.18	0.18	0.13
P2O5	0.05	0.05	0.04
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.24	0.00	0.00
TOTAL	98.33	100.00	100.00

NORMS	
Q	58.08
C	3.23
OR	9.68
AB	25.63
AN	0.91
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.33
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.07
CR	0.00
HM	0.86
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	1.33
CPX	0.00
AB*	25.63

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.35 SIO2 84.00 SUBALKALINE

OL* 1.18 NE* 18.08 Q* 80.74 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 73.77 F 18.30 M 7.93 CALC-ALKALINE

AL2O3 9.46 NORM PLAG 3.42 THOLEITIC

AN 2.50 AB* 70.76 OR 26.74 K-RICH SERIES

CI 2.26 NORM PLAG 3.42 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.28 FE 8.32 MG 5.40

COLOR INDEX : 2.26
HASHIMOTO INDEX : 40.56

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	50.00:SR	120.00:Y	-10.00:ZR	50.00:NB	10.00:BA	670.00:

COMMENTS : ROCK HAS STRONG PLANAR FABRIC AND GENTLE FOLDING AND CRENULATION. FSP XTLAS SUBHEDRAL 1MM, 1% FRESH SFC PALE $PS097/90. GREEN, ROCK A SCHISTOSE ASH TUFF.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 26-JAN-87
21:09:40

SAMPLE ID # AB17934 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29399 FIELD NUMBER : 86116PW266 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 92B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434770.0 N : 5415160.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,STRONG.
MINERALIZATION : NIL ,NIL ,NO COMMENT.
FORMATION :

SAMPLED BY : P. WHITING DATE : 01-AUG-86
ANALYZED BY : XRAL DATE : 02-OCT-86
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.30	73.63	68.12
AL2O3	14.70	14.97	16.33
FE2O3	2.03	1.74	1.21
FEO	0.00	0.29	0.23
CAO	0.85	0.87	0.86
MGO	1.77	1.80	2.49
NA2O	4.79	4.88	8.75
K2O	1.50	1.53	1.81
TIO2	0.21	0.21	0.15
P2O5	0.04	0.04	0.03
MNO	0.04	0.04	0.03
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	98.20	100.00	100.00

NORMS	
Q	32.36
C	4.16
OR	9.03
AB	43.75
AN	4.02
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.97
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.33
IL	0.30
CR	0.00
HM	0.99
AP	0.09
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.97
CPX	0.00
AB*	43.75

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.41 SIO2 73.63 SUBALKALINE
OL* 4.60 NE* 32.37 Q* 63.03 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 63.62 F 18.48 M 17.90 CALC-ALKALINE
AL2O3 14.97 NORM PLAG 8.42 CALC-ALKALINE
AN 7.09 AB* 77.02 OR 15.89 AVERAGE SERIES
CI 6.59 NORM PLAG 8.42 RHYOLITE

JENSEN CALC-ALKALINE DACITE
AL 79.91 FE 7.93 MG 12.16

COLOR INDEX : 6.59
HASHIMOTO INDEX : 36.70

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	50.00:SR	340.00:Y	-10.00:ZR	130.00:NB	20.00:BA	830.00:

COMMENTS : ROCK A SERICITE SCHIST DEVELOPED ON DACITIC XTAL TUFF. QTZ XTALS -2MM -1%. FSP XTALS SUBHEDRAL -2MM 1-5%
$PS104/85NE. IN PLACES ROCK HAS PALE WHITE AND GREEN LAMINAE -8MM WIDE POSS BEDS?

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB17935 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 29399 FIELD NUMBER : 86116PW268 PROJECT # 1116
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 92B13 PROJECT : CHEMAINUS J.V. (ESSO)
UTM ZONE : 10 GRID COORDINATES : E : 434807.0 N : 5414825.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : METAMORPHOSED ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : P.WHITING DATE : 01-AUG-86 ANALYTICAL
ANALYZED BY : XRAL DATE : 02-OCT-86 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.90	76.94	72.49
AL2O3	13.20	13.56	15.06
FE2O3	2.05	1.78	1.26
FEO	0.00	0.30	0.23
CAO	0.32	0.33	0.33
MGO	1.06	1.09	1.53
NA2O	3.16	3.25	5.93
K2O	2.36	2.42	2.92
TIO2	0.23	0.24	0.17
P2O5	0.05	0.05	0.04
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.00	0.00	0.00
TOTAL	97.35	100.00	100.00

NORMS	
Q	43.90
C	5.69
OR	14.59
AB	29.65
AN	1.32
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.06
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.32
IL	0.33
CR	0.00
HM	1.05
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.06
CPX	0.00
AB*	29.65

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.67 SIO2 76.94 SUBALKALINE
OL* 2.99 NE* 23.22 Q* 73.78 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 65.52 F 21.90 M 12.58 CALC-ALKALINE
AL2O3 13.56 NORM PLAG 4.25 CALC-ALKALINE
AN 2.89 AB* 65.09 OR 32.02 K-RICH SERIES
CI 4.76 NORM PLAG 4.25 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.34 FE 9.30 MG 8.36

COLOR INDEX : 4.76
HASHIMOTO INDEX : 49.57

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	20.00:RB	60.00:SR	190.00:Y	-10.00:ZR	100.00:NB	10.00:BA	1070.00:

COMMENTS : ROCK DACITE IN COMP. QTZ EYES 2-4MM 0-1%, FSP XTALS SUBHED. 1-2MM 2-5%. ROCK MODERATELY SCHISTOSE, RUSTY
$PS125/90. STRINGERS AND SPOTS 1-2MM INTERP TO BE WEATHERED PY.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87 21:11:04

SAMPLE ID # AB18600 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 0001 — FIELD NUMBER : WR-7 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 092B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 — GRID COORDINATES : E : 429950.0 N : 5416880.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME :
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : C.C EVERETT — DATE : 00-???-00
ANALYZED BY : MIN-EN,UBC,XRAL — DATE : 01-JAN-84
ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	66.70	68.81	63.96
AL203	18.00	18.57	20.34
FE203	2.44	1.89	1.32
FEO	0.00	0.57	0.44
CAO	1.52	1.57	1.56
MGO	1.59	1.64	2.27
NA2O	3.23	3.33	6.00
K2O	3.08	3.18	3.77
TI02	0.33	0.34	0.24
P205	0.10	0.10	0.08
MNO	0.01	0.01	0.01
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR203	0.00	0.00	0.00
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	2.62	0.00	0.00
TOTAL	96.94	100.00	100.00

NORMS	
Q	29.50
C	7.72
OR	18.86
AB	30.02
AN	7.13
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.54
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.63
IL	0.48
CR	0.00
HM	0.90
AP	0.22
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	4.54
CPX	0.00
AB*	30.02

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.51 SI02 68.81 SUBALKALINE
OL* 5.32 NE* 28.12 Q* 66.57 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 62.50 F 21.75 M 15.75 CALC-ALKALINE
AL203 18.57 NORM PLAG 19.19 CALC-ALKALINE
AN 12.73 AB* 53.60 OR 33.67 K-RICH SERIES
CI 6.55 NORM PLAG 19.19 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.62 FE 8.15 MG 9.23

COLOR INDEX : 6.55
HASHIMOTO INDEX : 49.58

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	90.00:SR	180.00:Y	0.00:ZR	130.00:NB	0.00:AU	0.00:CU	0.00:PB	0.00:ZN	0.00:
AG	0.00:MO	0.00:AS	0.00:SB	0.00:BA	0.00:				

COMMENTS : SERICITE SCHIST,1% QUARTZ EYES ,5% FELDSPAR PHENOCRYSTS
ESSO RESOURCES, 2130 PROJECT, JAN 1, 1984. 27+00 E, 2+50 S

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 26-JAN-87
SAMPLE ID # AB18614 WHOLE ROCK GEOCHEMICAL ANALYSIS 21:11:45

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB003 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430415.0 N : 5417445.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.60	75.43	70.21
AL203	13.60	13.75	15.09
FE203	2.08	1.79	1.25
FEO	0.00	0.28	0.22
CAO	1.07	1.08	1.08
MGO	1.16	1.17	1.63
NA2O	4.79	4.84	8.74
K2O	1.25	1.26	1.50
TIO2	0.27	0.27	0.19
P2O5	0.07	0.07	0.06
MNO	0.03	0.03	0.02
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.31	0.00	0.00
TOTAL	98.90	100.00	100.00

NORMS	
Q	35.89
C	2.87
OR	7.51
AB	43.70
AN	4.93
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.25
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.15
IL	0.38
CR	0.01
HM	1.16
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.25
CPX	0.00
AB*	43.70

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.11 SIO2 75.43 SUBALKALINE
OL* 2.95 NE* 31.65 Q* 65.40 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 66.58 F 20.63 M 12.79 CALC-ALKALINE
AL203 13.75 NORM PLAG 10.14 CALC-ALKALINE
AN 8.78 AB* 77.84 OR 13.38 AVERAGE SERIES
CI 4.94 NORM PLAG 10.14 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.98 FE 9.17 MG 8.84

COLOR INDEX : 4.94
HASHIMOTO INDEX : 29.14

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	40.00:SR	240.00:Y	20.00:ZR	110.00:NB	10.00:BA	1150.00:

COMMENTS : SAMPLE IS PARTIALLY CHLORITE WITH CHERTY FRAGMENTS INCORPORATED. QTZ. EYES UPTO 4 MM. ALSO PRESENT. NA, DCP ANALYSES ALSO PERFORMED AS PART OF THE WR EXPLORATION PACKAGE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87 21:12:26

SAMPLE ID # AB18615 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB004 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430280.0 N : 5417195.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85
ANALYZED BY : XRAL DATE : 11-JUL-85
ANALYTICAL TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SI02	72.80	74.20	69.15
AL203	14.40	14.68	16.12
FE203	2.53	1.73	1.22
FE0	0.00	0.76	0.59
CA0	0.54	0.55	0.55
MG0	0.84	0.86	1.19
NA20	4.33	4.41	7.97
K20	2.47	2.52	3.00
TI02	0.20	0.20	0.14
P205	0.05	0.05	0.04
MN0	0.03	0.03	0.02
S	0.00	0.00	0.00
NI0	0.00	0.00	0.00
CR203	0.01	0.01	0.01
C02	0.00	0.00	0.00
H20+	0.00	0.00	0.00
H20-	0.00	0.00	0.00
LOI	1.85	0.00	0.00
TOTAL	98.12	100.00	100.00

NORMS	
Q	34.08
C	4.19
OR	14.98
AB	39.87
AN	2.41
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.38
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.41
IL	0.29
CR	0.01
HM	0.27
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.38
CPX	0.00
AB*	39.87

CLASSIFICATIONS AND INDICES

NA20+K20 6.93 SI02 74.20		SUBALKALINE
OL* 2.34 NE* 31.34 Q* 66.33		SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00		SUBALKALINE
A 68.57 F 22.96 M 8.47		CALC-ALKALINE
AL203 14.68 NORM PLAG 5.71		CALC-ALKALINE
AN 4.21 AB* 69.62 OR 26.16		K-RICH SERIES
CI 4.35 NORM PLAG 5.71		RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.59 FE 10.24 MG 6.17

COLOR INDEX : 4.35
HASHIMOTO INDEX : 40.46

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	60.00:SR	100.00:Y	10.00:ZR	90.00:NB	20.00:BA	1040.00:

COMMENTS : SAMPLE HAS ABUNDANT QTZ. EYES UP TO 5 MM. AND SOME QTZ. VEINING IN OUTCROP. MINOR LIMONITE STAINING. NO VISIBLE SULPHIDES. XRF, NA ANALYSES ALSO PERFORMED AS PART OF THE MULTI ELEMENT ANALYSIS.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB18616 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB005 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430250.0 N : 5417155.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,STRONG.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	76.90	78.04	73.30
AL2O3	13.30	13.50	14.94
FE2O3	1.13	1.15	0.81
FEO	0.00	0.00	0.00
CAO	0.27	0.27	0.28
MGO	0.47	0.48	0.67
NA2O	3.60	3.65	6.65
K2O	2.57	2.61	3.13
TIO2	0.19	0.19	0.14
P2O5	0.05	0.05	0.04
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	1.62	0.00	0.00
TOTAL	98.54	100.00	100.00

NORMS	
Q	42.87
C	4.74
OR	15.64
AB	33.26
AN	1.04
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.34
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.07
CR	0.01
HM	0.81
AP	0.11
PO	0.00
NS	0.00
KS	0.00
RU	0.10
AG	0.00
OL	0.00
OPX	1.34
CPX	0.00
AB*	33.26

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.26 SIO2 78.04 SUBALKALINE

OL* 1.29 NE* 25.76 Q* 72.95 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 80.58 F 13.28 M 6.14 CALC-ALKALINE

AL2O3 13.50 NORM PLAG 3.04 CALC-ALKALINE

AN 2.09 AB* 66.60 OR 31.32 K-RICH SERIES

CI 2.22 NORM PLAG 3.04 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 90.03 FE 5.95 MG 4.02

COLOR INDEX : 2.22
HASHIMOTO INDEX : 43.99

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,AG (P.P.B.)

CR	0.00:RB	50.00:SR	70.00:Y	20.00:ZR	100.00:NB	10.00:BA	880.00:

COMMENTS : SAMPLE HAS SMALLER QTZ. EYES (ONLY 2-3 MM.) AND NO APPARENT MINERALIZATION. STRONGLY SERICITIC WITH MINOR CHLORITE.
XRF, NA ALSO DONE AS A PART OF THE MULTI ELEMENT ANALYSIS PACKAGE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB18617 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB006 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430240.0 N : 5417135.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC,MAFIC ,MEDIUM,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	62.00	64.58	59.89
AL2O3	16.90	17.60	19.24
FE2O3	5.65	1.95	1.36
FEO	0.00	3.54	2.75
CAO	2.27	2.36	2.35
MGO	1.59	1.66	2.29
NA2O	4.12	4.29	7.72
K2O	3.09	3.22	3.81
TIO2	0.37	0.39	0.27
P2O5	0.27	0.28	0.22
MNO	0.13	0.14	0.11
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.42	0.00	0.00
TOTAL	96.00	99.00	99.00

NORMS	
Q	16.65
C	3.75
OR	19.06
AB	38.58
AN	9.90
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	4.58
FS	4.81
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.04
IL	0.54
CR	0.75
HM	0.00
AP	0.59
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	9.39
CPX	0.00
AB*	38.58

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.51 SIO2 64.58		SUBALKALINE
OL* 10.90 NE* 35.82 Q* 53.28		SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00		SUBALKALINE
A 51.93 F 36.62 M 11.45		THOLEITIC
AL2O3 17.60 NORM PLAG 20.43		CALC-ALKALINE
AN 14.66 AB* 57.12 OR 28.22		K-RICH SERIES
CI 11.97 NORM PLAG 20.43		DACITE

JENSEN CALC-ALKALINE DACITE
AL 73.97 FE 17.23 MG 8.80

COLOR INDEX : 11.97
HASHIMOTO INDEX : 42.28

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	80.00:SR	220.00:Y	10.00:ZR	140.00:NB	20.00:BA	1150.00:

COMMENTS : DARK GREEN SCHISTOSE, VERY CHLORITIC. MAFIC FLOAT. NO MINERALIZATION. XRF, NA ALSO PERFORMED AS PART OF THE WHR EXP. PACKAGE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB18618 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB007 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430220.0 N : 5417100.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	72.50	74.21	69.42
AL2O3	14.30	14.64	16.14
FE2O3	1.62	1.66	1.17
FEO	0.00	0.00	0.00
CAO	1.54	1.58	1.58
MGO	0.79	0.81	1.13
NA2O	3.55	3.63	6.59
K2O	3.03	3.10	3.71
TIO2	0.25	0.26	0.18
P2O5	0.06	0.06	0.05
MNO	0.05	0.05	0.04
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.39	0.00	0.00
TOTAL	97.70	100.00	100.00

NORMS	
Q	34.41
C	2.85
OR	18.53
AB	32.95
AN	7.49
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.25
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.07
CR	0.01
HM	1.17
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.14
AG	0.00
OL	0.00
OPX	2.25
CPX	0.00
AB*	32.95

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.73 SIO2 74.21 SUBALKALINE
OL* 2.43 NE* 28.40 Q* 69.17 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 74.54 F 16.51 M 8.95 CALC-ALKALINE
AL2O3 14.64 NORM PLAG 18.53 CALC-ALKALINE
AN 12.71 AB* 55.88 OR 31.42 K-RICH SERIES
CI 3.50 NORM PLAG 18.53 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 86.52 FE 7.44 MG 6.04

COLOR INDEX : 3.50
HASHIMOTO INDEX : 42.87

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	50.00:SR	180.00:Y	-10.00:ZR	100.00:NB	10.00:BA	1480.00:

COMMENTS : SAMPLE CONTAINS ABUNDANT QTZ. EYES UPTO 6-8 MM. AND MINOR PY. (LESS THAN 1%). XRF, NA ALSO DONE AS PART OF THE WHR EXP. PACKAGE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 26-JAN-87 21:15:09

SAMPLE ID # AB18619 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB008 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430120.0 N : 5416930.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	71.30	74.09	70.37
AL2O3	13.90	14.44	16.17
FE2O3	2.08	1.84	1.31
FEO	0.00	0.29	0.23
CAO	2.65	2.75	2.80
MGO	0.96	1.00	1.41
NA2O	1.72	1.79	3.29
K2O	3.23	3.36	4.07
TIO2	0.27	0.28	0.20
P2O5	0.07	0.07	0.06
MNO	0.09	0.09	0.08
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.50	0.50
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.54	0.00	0.00
TOTAL	96.23	99.00	99.00

NORMS	
Q	41.46
C	3.40
OR	20.36
AB	16.46
AN	13.52
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.82
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	1.82
IL	0.40
CR	0.75
HM	0.10
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.82
CPX	0.00
AB*	16.46

CLASSIFICATIONS AND INDICES

NA2O+K2O 5.14 SIO2 74.09 SUBALKALINE

OL* 3.49 NE* 16.25 Q* 80.26 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 63.61 F 24.05 M 12.34 CALC-ALKALINE

AL2O3 14.44 NORM PLAG 45.11 THOLEITIC

AN 26.87 AB* 32.69 OR 40.44 K-RICH SERIES

CI 5.14 NORM PLAG 45.11 HIGH ALUMINA ANDESITE

JENSEN CALC-ALKALINE RHYOLITE
AL 83.34 FE 9.38 MG 7.28

COLOR INDEX : 5.14
HASHIMOTO INDEX : 48.95

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB	40.00:SR	100.00:Y	10.00:ZR	90.00:NB	20.00:BA	1280.00:

COMMENTS : SAMPLE OF CHLORITIC-SERICITIC, QTZ. EYE SCHIST WITH MINOR DISSEMINATED PY. UPTO 2%. XRF, NA ANALYSES ALSO CARRIED OUT AS PART OF THE MULTI-ELEMENT ANALYSIS PACKAGE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000
PRINTED 26-JAN-87
SAMPLE ID # AB18620 WHOLE ROCK GEOCHEMICAL ANALYSIS 21:15:50

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB009 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430370.0 N : 5416955.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.10	72.00	66.85
AL2O3	14.90	15.30	16.75
FE2O3	2.31	1.82	1.27
FEO	0.00	0.50	0.39
CAO	1.63	1.67	1.67
MGO	1.16	1.19	1.65
NA2O	4.30	4.42	7.95
K2O	2.60	2.67	3.17
TIO2	0.27	0.28	0.19
P2O5	0.07	0.07	0.06
MNO	0.07	0.07	0.06
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.23	0.00	0.00
TOTAL	97.37	100.00	100.00

NORMS	
Q	28.71
C	2.49
OR	15.83
AB	39.75
AN	7.86
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	3.30
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.74
IL	0.39
CR	0.01
HM	0.78
AP	0.15
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	3.30
CPX	0.00
AB*	39.75

CLASSIFICATIONS AND INDICES

NA2O+K2O 7.09 SIO2 72.00 SUBALKALINE
OL* 3.45 NE* 33.24 Q* 63.32 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 68.06 F 20.50 M 11.44 CALC-ALKALINE
AL2O3 15.30 NORM PLAG 16.50 CALC-ALKALINE
AN 12.38 AB* 62.66 OR 24.96 AVERAGE SERIES
CI 5.20 NORM PLAG 16.50 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.48 FE 9.40 MG 8.12

COLOR INDEX : 5.20
HASHIMOTO INDEX : 38.80

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	50.00:SR	330.00:Y	20.00:ZR	110.00:NB	10.00:BA	960.00:

COMMENTS : SAMPLE OF CHLORITE-SERICITE SCHIST WITH QTZ. EYES UPTO 5 MM. MINOR DISSEMINATED PY., LESS THAN 1%.
XRF, NA ALSO DONE FOR WHR EXP. PACKAGE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB18621 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB010 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430370.0 N : 5416980.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	49.30	52.83	48.32
AL2O3	16.10	17.25	18.60
FE2O3	10.30	2.28	1.57
FEO	0.00	7.88	6.03
CAO	4.92	5.27	5.17
MGO	8.62	9.24	12.59
NA2O	3.17	3.40	6.02
K2O	0.77	0.83	0.96
TIO2	0.63	0.68	0.46
P2O5	0.10	0.11	0.08
MNO	0.22	0.24	0.18
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	5.00	0.00	0.00
TOTAL	93.32	100.00	100.00

NORMS	
Q	0.00
C	1.56
OR	4.82
AB	30.12
AN	25.14
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	24.48
FS	9.63
FO	0.53
FA	0.21
WO	0.00
LN	0.00
MT	2.36
IL	0.93
CR	0.01
HM	0.00
AP	0.22
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.74
OPX	34.11
CPX	0.00
AB*	30.12

CLASSIFICATIONS AND INDICES

NA2O+K2O 4.22 SIO2 52.83 SUBALKALINE
OL* 40.51 NE* 27.82 Q* 31.67 SUBALKALINE
CPX 0.00 OL 2.11 OPX 97.89 SUBALKALINE
A 18.05 F 42.46 M 39.49 THOLEITIC
AL2O3 17.25 NORM PLAG 45.50 CALC-ALKALINE
AN 41.85 AB* 50.13 OR 8.02 AVERAGE SERIES
CI 38.13 NORM PLAG 45.50 BASALT

JENSEN HIGH MAGNESIUM THOLEIITIC BASALT
AL 47.17 FE 20.91 MG 31.93

COLOR INDEX : 38.13
HASHIMOTO INDEX : 53.72

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR 0.00:RB 20.00:SR 420.00:Y 10.00:ZR 30.00:NB -10.00:BA 400.00:

COMMENTS : HIGHLY CHLORITIC, LAPILLI TUFF. (SCHISTOSE). XRF, NA ALSO DONE FOR WHR EXP. ANALYSIS PACKAGE.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000 PAGE 1
PRINTED 26-JAN-87
SAMPLE ID # AB18622 WHOLE ROCK GEOCHEMICAL ANALYSIS 21:17:13

LAB REPORT # 24696 FIELD NUMBER : 85-952-BB011 PROJECT # 952
TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092B13 PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 10 GRID COORDINATES : E : 430390.0 N : 5417050.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,INTERMEDIATE,LAPILLI,QUARTZ AND FELDSPAR PORPHYRITIC,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : PERVASIVE ,SERICITIZATION,MODERATE.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : B. BOWER. DATE : 27-JUN-85 ANALYTICAL
ANALYZED BY : XRAL DATE : 11-JUL-85 TECHNIQUE : PLASMA EMISSION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	74.00	75.46	70.79
AL2O3	13.00	13.26	14.66
FE2O3	2.34	1.77	1.25
FEO	0.00	0.55	0.43
CAO	1.30	1.33	1.33
MGO	1.03	1.05	1.47
NA2O	3.71	3.78	6.88
K2O	2.38	2.43	2.91
TIO2	0.24	0.24	0.17
P2O5	0.06	0.06	0.05
MNO	0.06	0.06	0.05
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.01	0.01	0.01
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.08	0.00	0.00
TOTAL	98.07	100.00	100.00

NORMS	
Q	37.45
C	2.37
OR	14.54
AB	34.40
AN	6.26
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	2.94
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.91
IL	0.35
CR	0.01
HM	0.64
AP	0.13
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.94
CPX	0.00
AB*	34.40

CLASSIFICATIONS AND INDICES

NA2O+K2O 6.21 SIO2 75.46 SUBALKALINE

OL* 2.95 NE* 27.60 Q* 69.46 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 66.01 F 22.82 M 11.16 CALC-ALKALINE

AL2O3 13.26 NORM PLAG 15.39 CALC-ALKALINE

AN 11.34 AB* 62.33 OR 26.34 K-RICH SERIES

CI 4.84 NORM PLAG 15.39 DACITE

JENSEN CALC-ALKALINE RHYOLITE
AL 81.29 FE 10.57 MG 8.14

COLOR INDEX : 4.84
HASHIMOTO INDEX : 40.50

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

CR	0.00:RB	50.00:SR	130.00:Y	10.00:ZR	80.00:NB	10.00:BA	950.00:

COMMENTS : SAME AS AB18620. XRF, NA ANALYSES ALSO DONE.

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

SAMPLE ID # AB18642 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 25637 — FIELD NUMBER : 85952SE20 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 92B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 0 — GRID COORDINATES : E : 434630.0 N : 5415955.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,LAPILLI,QUARTZ PORPHYRITIC.
FINAL NAME :
ALTERATION : PERVASIVE ,SULPHIDE ALTERATION ,WEAK.
MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
FORMATION :

SAMPLED BY : S. ENNS. — DATE : 10-AUG-85 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 07-OCT-85 — TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	78.40	81.45	78.94
AL2O3	12.40	12.88	14.72
FE2O3	1.48	1.54	1.12
FEO	0.00	0.00	0.00
CAO	0.18	0.19	0.19
MGO	0.32	0.33	0.48
NA2O	0.34	0.35	0.66
K2O	2.85	2.96	3.66
TIO2	0.21	0.22	0.16
P2O5	0.07	0.07	0.06
MNO	0.00	0.00	0.00
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	2.62	0.00	0.00
TOTAL	96.25	100.00	100.00

NORMS	
Q	65.28
C	10.20
OR	18.32
AB	3.32
AN	0.47
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	0.96
FS	0.00
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	0.00
IL	0.00
CR	0.00
HM	1.12
AP	0.16
PO	0.00
NS	0.00
KS	0.00
RU	0.16
AG	0.00
OL	0.00
OPX	0.96
CPX	0.00
AB*	3.32

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.31 SIO2 81.45 SUBALKALINE
OL* 1.04 NE* 2.86 Q* 96.10 SUBALKALINE
CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
A 65.89 F 27.50 M 6.61 CALC-ALKALINE
AL2O3 12.88 NORM PLAG 12.47 THOLEITIC
AN 2.14 AB* 15.00 OR 82.86 K-RICH SERIES
CI 2.08 NORM PLAG 12.47 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 89.31 FE 7.77 MG 2.91

COLOR INDEX : 2.08
HASHIMOTO INDEX : 85.91

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	60.00:SR	80.00:Y	10.00:ZR	110.00:NB	10.00:BA	1890.00:AU	-10.00:LI	10.00:BE	-10.00:
B	40.00:SC	4.10:V	20.00:CR	2.00:MN	36.00:CO	2.00:NI	3.00:CU	9.00:ZN	55.00:
GE	-10.00:AS	21.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.80:CS	0.70:
LA	12.50:CE	18.00:ND	5.00:SM	1.40:EU	0.30:YB	1.60:LU	0.31:HF	2.00:TA	-1.00:
W	4.00:PB	16.00:BI	-0.50:TH	4.30:U	2.00:				

COMMENTS : LIMONITIC SCHIST. COLLECTION DIFFICULT. QTZ. AND SERICITIC ALTERATION(?). TAKEN FROM OAK 3, NORTH ROAD.

==== F A L C O N B R I D G E L T D =====
=== EXPLORATION DIVISION ===

REPORT #2000

PRINTED 26-JAN-87
21:18:37

SAMPLE ID # AB18643 — WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 25637 — FIELD NUMBER : 85952SE20 — PROJECT # 952
TOWNSHIP : — LOT : 0 CONCESSION : — PROVINCE : BRITISH COLUMBIA
NTS : 92B13 — PROJECT : VANC. ISL. ESSO JV
UTM ZONE : 0 — GRID COORDINATES : E : 434633.0 N : 5415990.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,LOOK AT COMMENTS FILE.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : S. ENNS. — DATE : 10-AUG-85 — ANALYTICAL
ANALYZED BY : XRAL — DATE : 07-OCT-85 — TECHNIQUE :

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %
SIO2	70.60	73.55	70.25
AL2O3	16.60	17.29	19.47
FE2O3	3.52	2.05	1.48
FEO	0.00	1.45	1.16
CAO	0.33	0.34	0.35
MGO	0.64	0.67	0.95
NA2O	1.58	1.65	3.05
K2O	2.13	2.22	2.71
TIO2	0.47	0.49	0.35
P2O5	0.15	0.16	0.13
MNO	0.13	0.14	0.11
S	0.00	0.00	0.00
NIO	0.00	0.00	0.00
CR2O3	0.00	0.00	0.00
CO2	0.00	0.00	0.00
H2O+	0.00	0.00	0.00
H2O-	0.00	0.00	0.00
LOI	3.39	0.00	0.00
TOTAL	95.99	100.00	100.00

NORMS	
Q	51.57
C	13.43
OR	13.53
AB	15.24
AN	0.70
LC	0.00
NE	0.00
KP	0.00
AC	0.00
DI	0.00
HE	0.00
EN	1.90
FS	0.36
FO	0.00
FA	0.00
WO	0.00
LN	0.00
MT	2.21
IL	0.70
CR	0.00
HM	0.00
AP	0.34
PO	0.00
NS	0.00
KS	0.00
RU	0.00
AG	0.00
OL	0.00
OPX	2.26
CPX	0.00
AB*	15.24

CLASSIFICATIONS AND INDICES

NA2O+K2O 3.86 SIO2 73.55 SUBALKALINE

OL* 2.45 NE* 13.24 Q* 84.31 SUBALKALINE

CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE

A 49.35 F 42.13 M 8.51 THOLEITIC

AL2O3 17.29 NORM PLAG 4.42 CALC-ALKALINE

AN 2.39 AB* 51.70 OR 45.91 K-RICH SERIES

CI 5.18 NORM PLAG 4.42 RHYOLITE

JENSEN CALC-ALKALINE RHYOLITE
AL 82.79 FE 13.17 MG 4.04

COLOR INDEX : 5.18
HASHIMOTO INDEX : 59.19

TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)

RB	30.00:SR	120.00:Y	30.00:ZR	130.00:NB	-10.00:BA	1210.00:AU	-10.00:LI	10.00:BE	-10.00:
B	40.00:SC	10.70:V	50.00:CR	4.00:MN	0.00:CO	6.00:NI	5.00:CU	4.00:ZN	59.00:
GE	-10.00:AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CD	-0.20:SB	0.30:CS	2.00:
LA	15.90:CE	32.00:ND	16.00:SM	3.00:EU	0.60:YB	3.00:LU	0.45:HF	3.00:TA	-1.00:
W	-4.00:PB	14.00:BI	-0.50:TH	2.50:U	1.50:				

COMMENTS : PAPERY SCHISTOSE ROCK.