

895173

1979 Property Report

**AMAX VANCOUVER
FIELD COPY**

TITLE	Erie Creek Property - Diamond Drilling
DATE	February, 1980
AUTHOR	B.W. Kyba
COMMODITY	Mo, Cu, W
LOCATION-Area	11 km northwest of Salmo, B.C.
-Mining Division	Nelson
-Coordinates	Latitude 49°25'N, Longitude 117°20'W
-NTS	82 F/6

AMAX VANCOUVER OFFICE

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SUMMARY

This assessment report presents results of drill hole EC-79-1 on the Erie Creek property on June 1 and 2 claims. The hole was drilled by AMAX of Canada Limited between November 3, 1979 and December 14, 1979.

The property is located 11 km northwest of Salmo in southeastern British Columbia. The property consists of June 1-7 claims and 21 reverted crown granted claims acquired over the period 1976 to 1979. The property is wholly owned by AMAX.

Diamond drill hole EC-79-1, driven to a depth of 452 m (1,483') encountered biotite quartz monzonite, and feldspar porphyry and quartz feldspar porphyry dykes. Molybdenite and minor chalcopyrite and scheelite occur in quartz vein and fracture stockworks.

A field cost of \$61,839.01 was applied as assessment to the following claims:

- 5 years June 1, 3, Good Enough, Copper King, Monte Carlo, Gordon, Nelson, St. Louis, Pockford, Ontario, Westminster Fr., Maude S, Arnold
- 4 years June 2, Ben Hassen
- 3 years June 4, 5.

CONCLUSIONS

Diamond drill hole EC-79-1 encountered a complex acid dyke system that cuts a biotite quartz monzonite stock. Early in the intrusive history of the complex molybdenite - minor chalcopyrite mineralization took place. The best intersection in EC-79-1 was 54 m of 0.058% MoS₂ in a very well developed quartz vein and fracture stockwork 156 to 210 m below surface. Intensity of quartz veining and molybdenite mineralization decrease abruptly below a 17 m wide fault zone at 217 m.

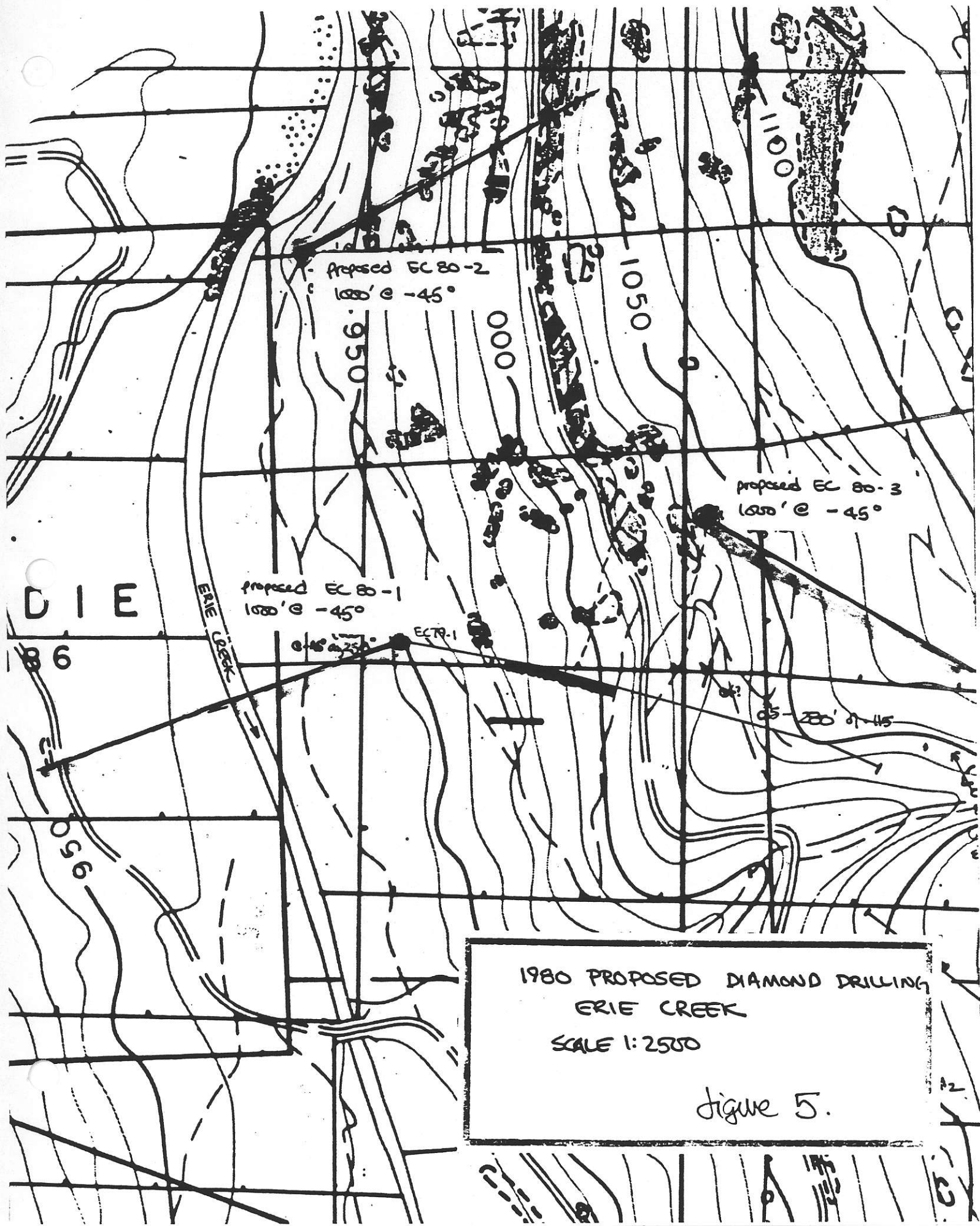
The Erie Creek property has the potential for a low grade, near surface, stockwork molybdenum deposit with minor tungsten and copper.

RECOMMENDATIONS

A total of 3000 feet in three new holes is recommended for Erie Creek property (Figure 5). Specifically, the holes would be: EC-80-1 - to be located on the same site as EC-79-1 with a proposed depth of 1000 feet, azimuth 250°, and dip -45°. This hole is spotted to test the western extent of mineralization intersected in the upper part of EC-79-1.

EC-80-2 - located 220 m north of EC-80-1 on the east bank of Erie Creek with a proposed depth of 1000 feet, azimuth 60°, dip -45°. This hole is spotted to test depth extent of surface mineralization and lateral continuity of mineralization encountered in EC-79-1

EC-80-3 - located 180 m northeast and 90 m above EC-80-1 with a proposed depth of 1000 feet, azimuth 120°, dip -45°. This hole is spotted to test and confirm grades in the 0.1 - 0.2% MoS₂ range encountered in drilling done by McIntyre in the late 1960's.



1980 PROPOSED DIAMOND DRILLING
ERIE CREEK
SCALE 1:2500

figure 5.

Total cost of the 3000 foot program is estimated at \$140,000 based on last year's drilling costs and allowing for 10% inflation and substantial increases in field costs in 1980. Recommended time for the project is May 1 to July 15, 1980.

INTRODUCTION

This report documents a one hole diamond drill program carried out on the Erie Creek property in the fall of 1979.

Location and Access

The Erie Creek property is located 11 km northwest of Salmo, B.C. at 49°25'N latitude, 117°20'W longitude in the Nelson Mining Division (NTS 82 F/6) as shown in Figure 1. The property is reached by a well-maintained logging road which intersects Highway 3A 3 km west of Salmo, B.C.

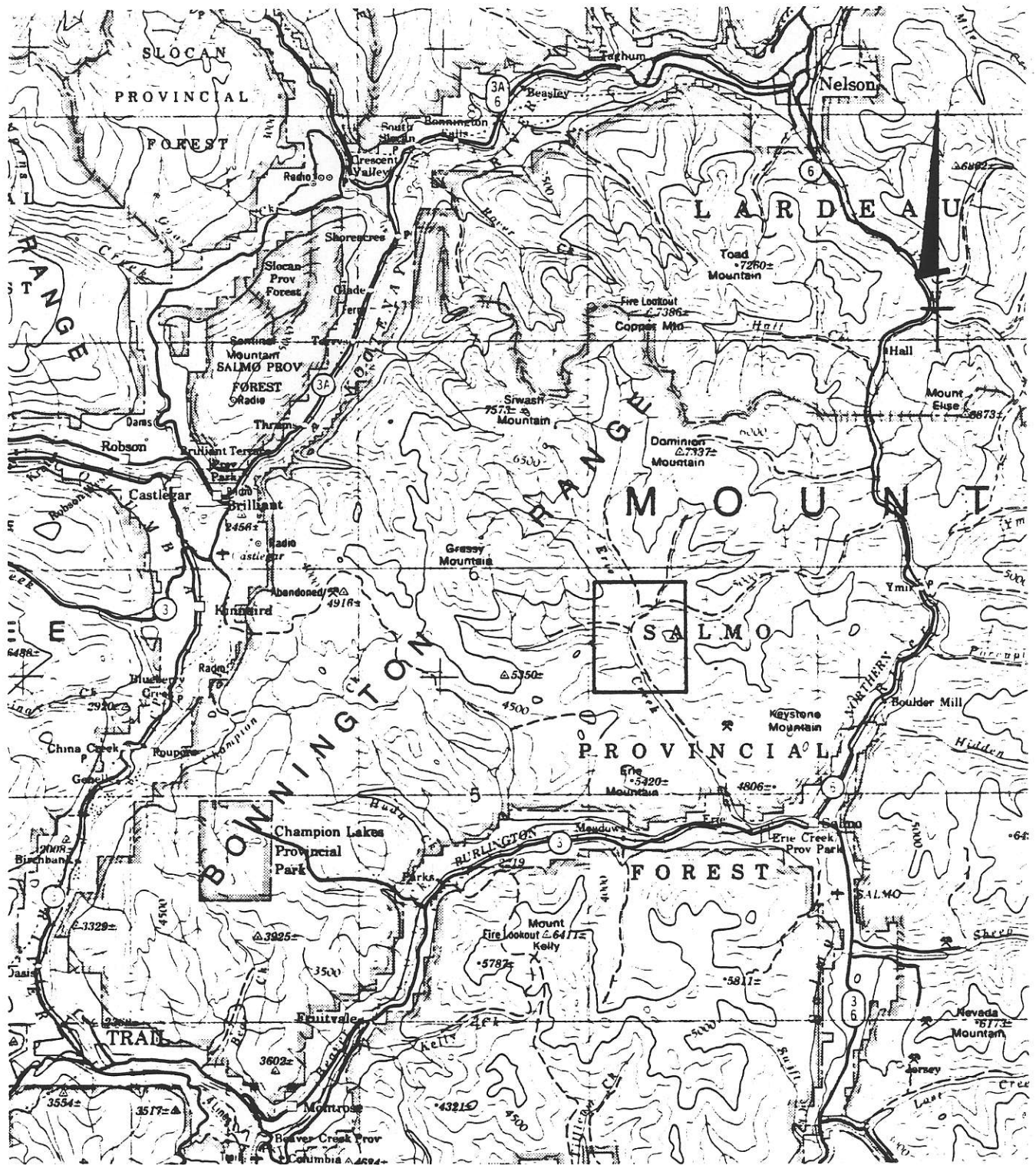
Claims

The property consists of the June 1-7 claims staked on behalf of AMAX Potash Limited and 21 reverted crown granted claims (Figure 2). Claims data are summarized below.

Claim	Record or Lot No.	No. of Units	Expiry Date
June 1	223	4	June 21/80
June 2	224	8	June 21/81
Rosa	859	1	Nov. 23/79
Belle	860	1	"
Florence	861	1	"
Bully Boy	862	1	"
<u>Rockford</u>	863	1	"
Ontario	864	1	"
Maude S	865	1	"
Ben Hassen	866	1	"
Arnold	867	1	"
St. Louis	868	1	"
Westminster FR.	869	1	"
Eddie	870	1	"
Louise	871	1	"
Monte Carlo	907	1	Dec. 15/79
Homestake	908	1	"
Dora	909	1	"
Copper King	910	1	"
Good Enough	911	1	"
Drum Lemmon	912	1	"
Gordon	913	1	"
Nelson	914	1	"
June 3	1017	16	Apr. 18/80
June 4	1018	16	"
June 5	1019	12	"
June 6	1020	6	"
June 7	1021	18	"

101

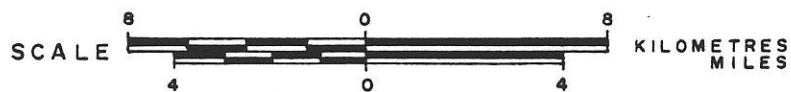
Prior to application of D.D. covered by this report.



AMAX OF CANADA LIMITED

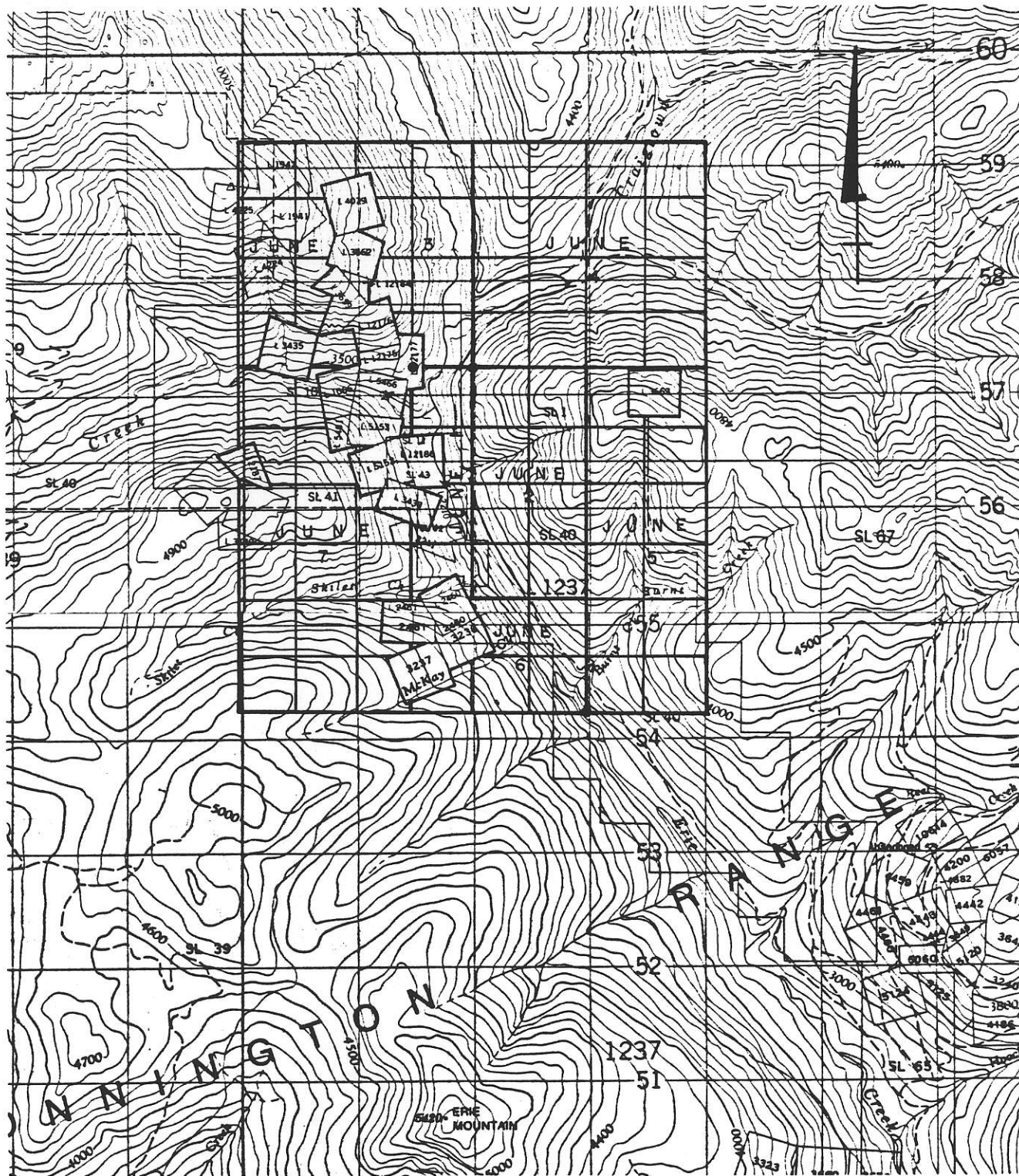
ERIE CREEK PROPERTY
NELSON M. D. - B. C.

LOCATION MAP



1:250,000

FIG. 1
N. T. S. Ref. 82 F386



AMAX OF CANADA LIMITED
 ERIE CREEK PROPERTY
 NELSON M. B. - B. C.
 CLAIM MAP

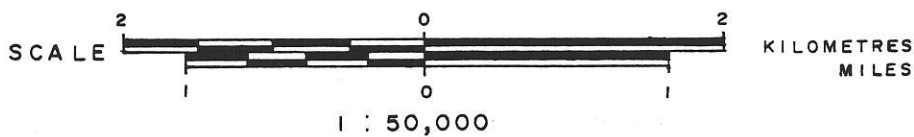


FIG. 2
 N. T. S. Ref. 82F386

A geophysical assessment report was filed on the property in November, 1979.

Physiography

The claims lie on the slopes and valley of Erie Creek between elevations 915 and 1400 m (3000 and 4700'). Topography is steep but not rugged.

Outcrop is abundant above alluvium and till that cover the lower slopes and valley of Erie Creek.

Mixed stands of cedar, Douglas fir, balsam fir, hemlock, larch, birch, poplar and alder cover the property. Locally, thick patches of slide alder cover the slopes.

1979 DRILLING

General Statement

One NQ/BQ drill hole was driven to a depth of 452 m (1483') during the period November 3 to December 14, 1979. The drill hole was collared in the valley bottom at elevation 950 m (Figure 3). It was set at an inclination of -60° on a bearing of 100° azimuth. Contractor for the job was Connors Drilling of Vancouver using a Longyear Super 38 drill.

Core recovery averaged better than 98% over the entire hole. All core was logged and split in 4 m intervals. Splits were geochemically analyzed for Mo, Cu, Ni, Co, Pb, Zn, Fe, Ag, Mn, W, Au and Sn by Rossbacher Laboratory, Burnaby. The core was stored on the property.

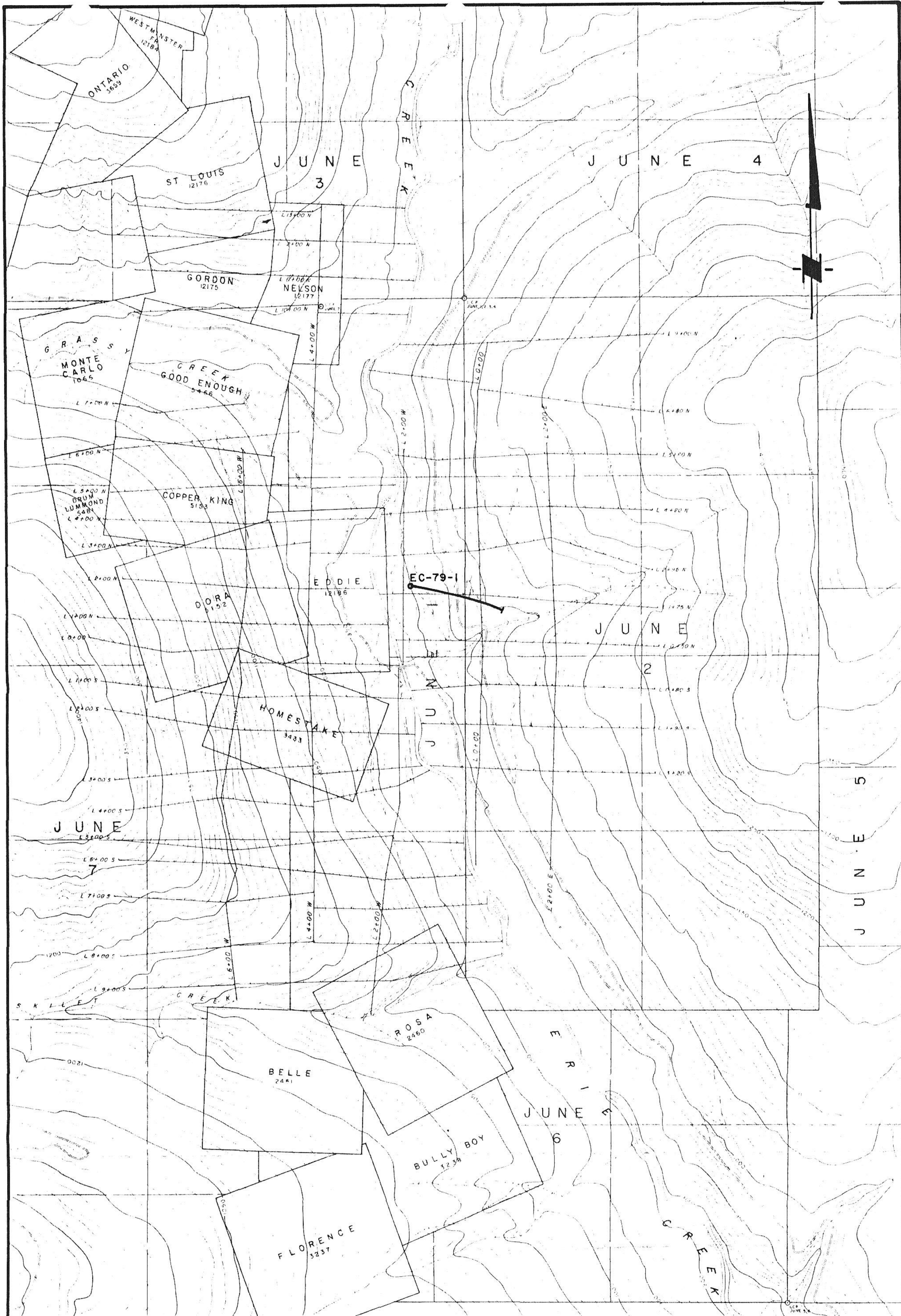
Results

The oldest rock type is a medium grained biotite quartz monzonite (Unit 4). The biotite quartz monzonite has been intruded by numerous dykes of several types, which from oldest to youngest are:

- Unit 5 - pink quartz-feldspar porphyry
- Unit 6 - black feldspar porphyry, feldspar-biotite-quartz porphyry, composite dykes of the above and feldspar megaporphyry dykes
- Unit 8 - light grey quartz feldspar porphyry
- Unit 9 - late black feldspar porphyry and feldspar biotite quartz porphyry dykes.

Units 4 and 5 are pre-mineral, Unit 6 intra-mineral and Units 8 and 9 post-mineral.

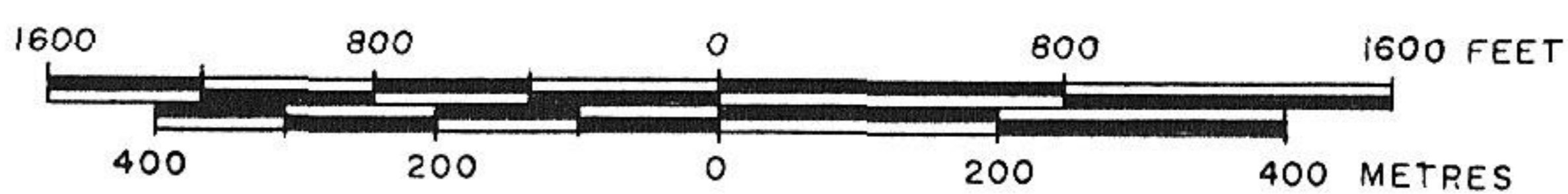
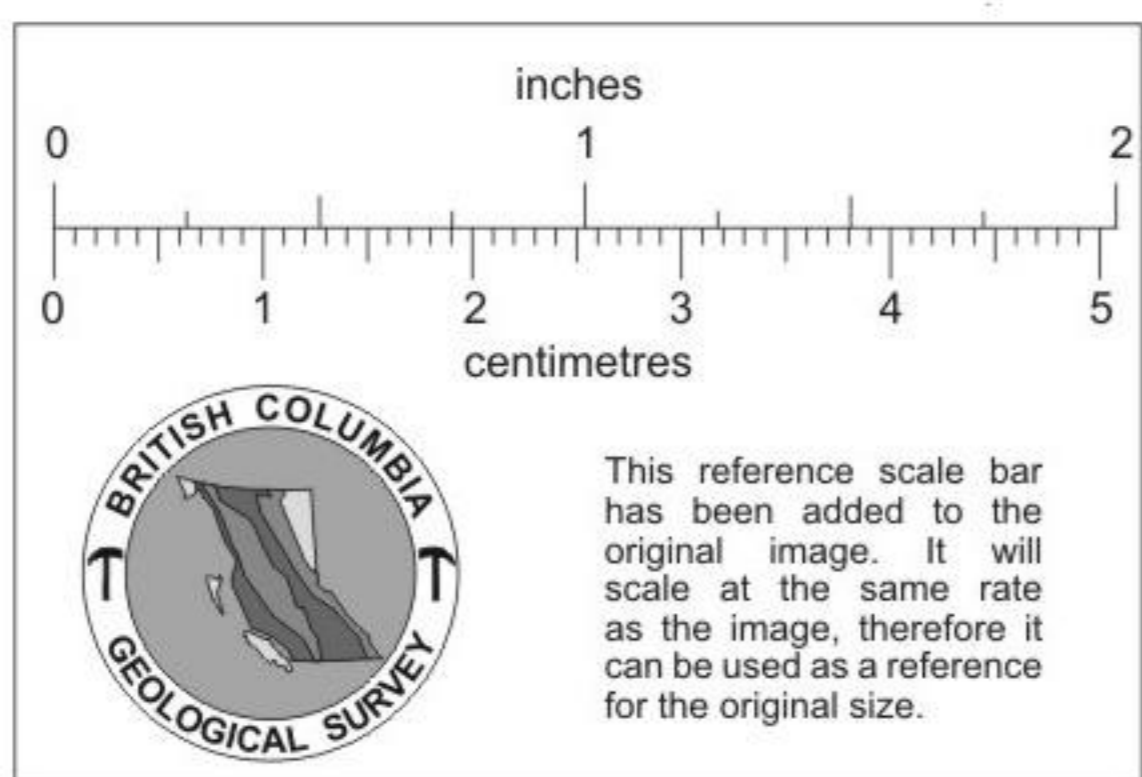
Two large faults were intersected in the core, one between 151 and 153 m and a larger one between 206 and 217 m.



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ERIE CREEK PROPERTY
NELSON M.D. - B.C.

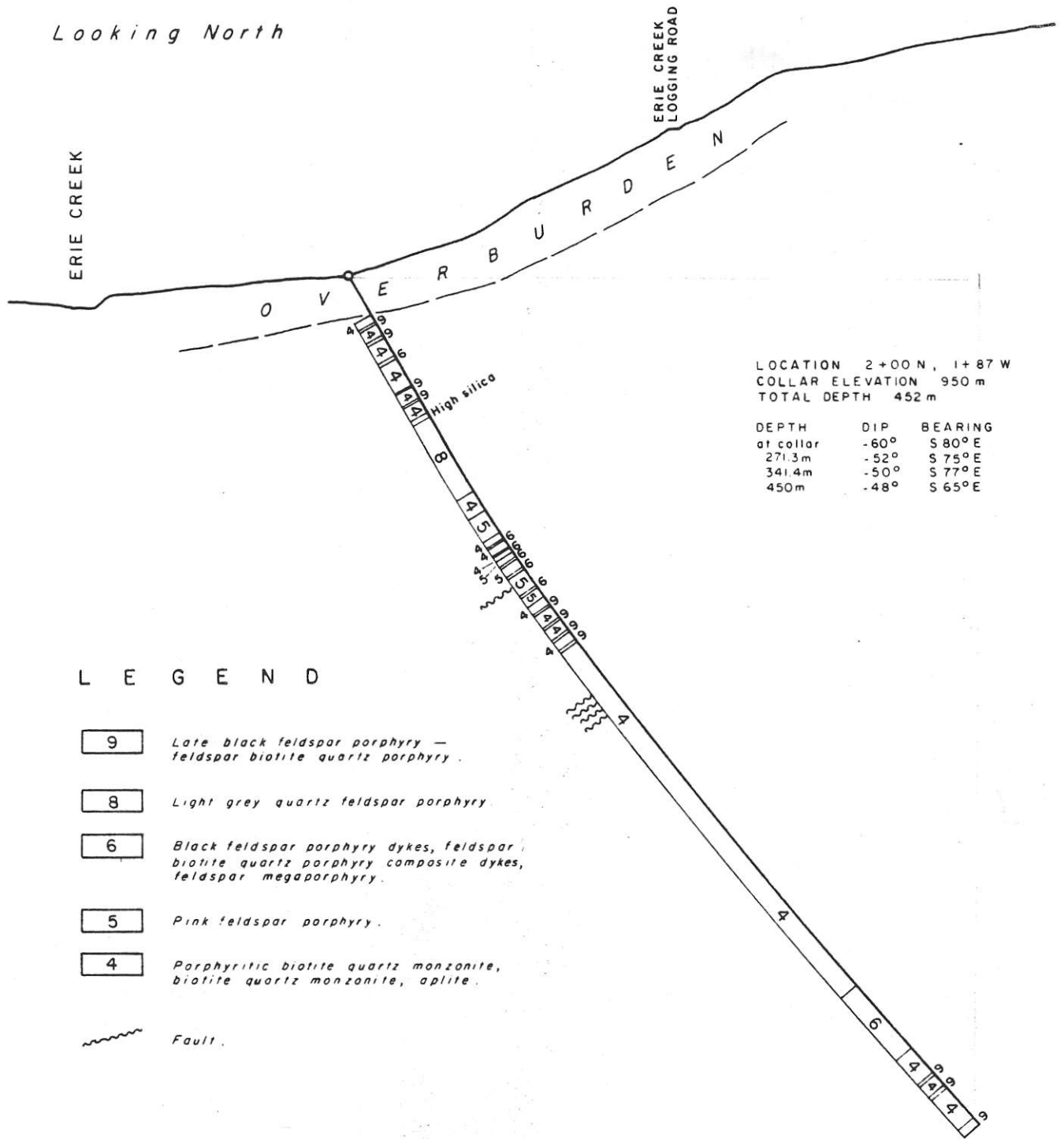
DIAMOND DRILL HOLE LOCATION



1: 10,000

Vancouver -

Looking North



LOCATION 2+00 N, 1+87 W
 COLLAR ELEVATION 950 m
 TOTAL DEPTH 452 m

DEPTH	DIP	BEARING
at collar	-60°	S 80° E
271.3 m	-52°	S 75° E
341.4 m	-50°	S 77° E
450 m	-48°	S 65° E

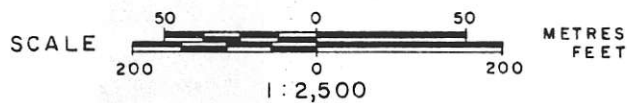
L E G E N D

- 9 Late black feldspar porphyry — feldspar biotite quartz porphyry.
- 8 Light grey quartz feldspar porphyry.
- 6 Black feldspar porphyry dykes, feldspar biotite quartz porphyry composite dykes, feldspar megaporphyry.
- 5 Pink feldspar porphyry.
- 4 Porphyritic biotite quartz monzonite, biotite quartz monzonite, aplite.
- Fault.

AMAX OF CANADA LIMITED

ERIE CREEK PROPERTY
 NELSON MINING DIVISION — BRITISH COLUMBIA

SECTION ALONG D. D. H. EC-79-1



Vancouver —

H. P.

N. T. S. Ref. 82 K 3 and 6

FIG. 4

In the larger fault the original rock has been argillized beyond recognition. Numerous small slips occur throughout the length of the core.

Fracture and quartz vein stockworks (greater than 40 veins and fractures per metre) occur in Units 4 and 5 in the intervals 48-56 m, 104-142 m, 156-127 m, and 296-314 m.

Highest molybdenite grades are coincident with stockwork intervals: the best intersection between 156-210 m of 54 m averages 0.058% MoS₂. Average grade in Unit 4 and 5 (pre-mineral) is 0.025% MoS₂.

Pyrite averages less than 1% throughout the core. Pyrrhotite occurs in trace amounts only.

Chalcopyrite occurs as fracture coatings with pyrite and pyrrhotite and rarely with molybdenite. Copper content averages 200 ppm.

Scheelite occurs rarely as scattered fine grains on fractures and in quartz veins.

A complete drill log is entered in Appendix II.

All sample numbers and results are entered in Appendix III.

B.W. Kyba

APPENDIX I

Kossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604
CERTIFICATE NO. 3453-1

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

INVOICE NO.
DATE ANALYSED DEC. 1979
PROJECT ERIE CREEK 794

No.	Sample	Sn	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W	PPB Au	No.
01	60901		200	400	22	24	200	89	.2	26	6			01
02	902		190	186	24	22	240	2.6	.2	28	10			02
03	903		134	146	20	20	400	3.3	.2	34	8			03
04	904		168	227	22	22	260	2.8	.2	26	8			04
05	905		58	198	18	20	200	2.1	.2	20	8	30		05
06	906		70	152	24	24	280	3.0	.2	28	12			06
07	907		94	228	20	24	220	2.7	.2	28	14			07
08	908		280	196	20	20	240	2.7	.2	30	16			08
09	909		92	262	22	26	240	2.8	.2	24	14			09
10	910	5	18	270	26	28	300	3.0	.2	34	14	30		10
11	911		26	168	20	24	260	2.5	.2	28	12		10	11
12	912		164	287	26	22	320	2.7	.2	36	8			12
13	913		500	78	18	16	160	1.3	.2	18	8			13
14	914		10	50	20	26	240	1.8	.2	26	24			14
15	915		6	24	20	26	660	3.0	.2	48	14	5		15
16	916		4	6	18	20	320	1.7	.2	18	10			16
17	917		4	6	16	20	380	1.8	.2	18	10			17
18	918		4	8	16	20	340	2.0	.2	18	6			18
19	60919		4	10	18	24	300	2.0	.2	18	6			19
20	STV E		4	74	40	14	300	3.4	.2	156	12			20
21	60920	2	6	24	16	20	240	1.8	.2	18	14	5	10	21
22	921		16	50	16	24	280	2.0	.4	20	14			22
23	922		146	98	18	22	480	3.2	.2	38	2			23
24	923		210	280	14	18	260	1.7	.4	30	10			24
25	924		320	296	16	20	300	2.0	.8	40	8			25
26	925		110	84	14	20	200	1.5	.2	18	6	75		26
27	926		64	84	16	20	180	1.5	.2	20	6			27
28	927		230	82	16	16	240	2.0	.2	24	4			28
29	928		380	140	20	20	300	2.0	.2	30	8			29
30	929		150	320	24	20	260	2.3	.2	30	4			30
31	930	0x	350	168	16	20	300	2.0	.4	30	8	25	10	31
32	931		46	272	28	24	400	2.8	.8	40	4			32
33	932		28	178	18	22	360	2.2	.2	28	4			33
34	933		34	14	20	24	580	2.6	.2	40	6			34
35	934		52	10	18	18	460	2.3	.2	34	6			35
36	935		90	14	16	20	480	2.4	.2	36	22	0		36
37	936		56	60	14	16	180	1.3	.2	24	8			37
38	937		430	280	28	16	340	2.6	.2	38	2			38
39	60938		460	164	20	20	360	2.4	.2	36	2			39
40	STV E		4	80	42	16	320	3.2	.2	154	1.4			40

Certified by P. Kossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604
CERTIFICATE NO. 9453-2

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

INVOICE NO.
DATE ANALYSED Dec. 1979
PROJECT ERIE CREEK 794

No.	Sample	Sm	Mo	Cu	Al	Co	Mn	Fe	Ag	Zn	Pb	W	Au	No.
01	60939		550	196	14	14	230	1.8	.4	26	10			01
02	940	0	950	132	12	12	200	1.4	.4	24	12	30	10	02
03	941		650	210	18	18	360	2.6	.2	36	8			03
04	942		240	260	22	20	440	3.2	.2	22	2			04
05	943		600	204	12	14	180	1.3	.2	20	8			05
06	944		184	146	16	14	240	1.6	.2	24	8			06
07	945		330	334	14	14	180	1.4	.2	20	10	30		07
08	946		150	110	16	14	240	1.6	.2	20	10			08
09	947		150	104	12	14	140	1.4	.2	16	12			09
10	60948		64	120	10	12	80	1.3	.2	14	12			10
11	949		18	48	14	16	360	2.5	.2	24	10			11
12	950	2	8	40	14	22	460	3.2	.2	26	6	12	10	12
13	951		26	74	24	24	440	3.5	.2	30	4			13
14	952		54	88	16	20	340	2.4	.2	26	6			14
15	953		2	40	14	18	200	1.8	.2	18	12			15
16	954		2	36	14	16	200	1.9	.2	16	10			16
17	955		2	70	14	16	180	1.6	.2	16	8	18		17
18	956		2	104	12	14	220	1.6	.4	26	24			18
19	60957		30	80	22	22	400	3.5	.2	32	2			19
20	571 E		4	76	44	16	300	3.2	.2	154	12			20
21	60958		106	100	20	20	280	2.6	.2	24	4			21
22	959		160	80	16	16	340	2.0	.2	24	10			22
23	960	0	144	74	14	16	180	1.8	.2	16	8	90	10	23
24	961		144	108	16	20	340	2.5	.2	20	6			24
25	962		110	110	16	16	240	1.8	.2	20	6			25
26	963		110	88	16	18	240	1.6	.2	20	6			26
27	964		92	90	12	18	240	2.0	.2	18	6			27
28	965		132	76	14	18	200	1.8	.2	14	12	135		28
29	966		110	450	14	16	180	2.0	.4	20	6			29
30	967		80	410	22	30	640	2.4	.6	74	20			30
31	968		116	122	18	20	260	2.2	.2	26	6			31
32	969		190	128	20	18	240	1.8	.2	20	2			32
33	970	2	200	228	14	18	160	2.4	.2	20	6	75	10	33
34	971		90	240	22	20	280	2.0	.2	28	2			34
35	972		130	126	20	16	260	2.0	.2	24	2			35
36	60973		200	110	26	22	440	2.8	.2	40	12			36
37	571 E		4	80	44	16	340	3.2	.2	152	14			37
38														38
39														39
40														40

Certified by

J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

AMAX

JAN 28 1980

CERTIFICATE OF ANALYSIS

VANCOUVER OFFICE

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604
CERTIFICATE NO. 30018-1

INVOICE NO.

DATE ANALYSED JAN. 1980

PROJECT ERIC CR, 794

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

(WORKSHEET)

No.	Sample	pH	Mo	Cu	Ag	No.
01	60974	✓	260	316	1.6	01
02	975		180	208	0.8	02
03	976		180	1120	4.2	03
04	977		164	140	0.8	04
05	978		164	112	0.6	05
06	979	✓	150	510	1.4	06
07	60980		126	194	0.4	07
08	981		320	82	0.2	08
09	982		130	530	0.2	09
10	983		196	82	0.2	10
11	984	✓	156	96	0.2	11
12	985		178	86	0.2	12
13	986		120	95	0.2	13
14	987		132	126	0.2	14
15	988		160	105	0.2	15
16	989	✓	100	114	0.2	16
17	60990		140	80	0.2	17
18	991		60	86	0.2	18
19	992		28	106	0.2	19
20	993		54	94	0.2	20
21	994	✓	20	100	0.2	21
22	995		24	150	0.4	22
23	996		90	142	0.2	23
24	997		160	190	0.6	24
25	998		114	100	0.4	25
26	999	✓	84	78	0.2	26
27	61000		150	70	0.2	27
28	61000					28
29	61351		90	375	1.4	29
30	352		178	234	1.0	30
31	353		84	84	0.2	31
32	354	✓	120	76	0.2	32
33	355		174	86	0.2	33
34	356		156	96	0.2	34
35	357		186	108	0.2	35
36	61358	✓	116	138	0.2	36
37						37
38						38
39						39
40						40

Certified by _____

APPENDIX II
DIAMOND DRILL RECORD

PROPERTY ERIE CREEK Project Number 794

Hole No. EC-79-1 Co-ordinates 49°25'N Latitude Bearing at Collar 100°
117°20'W Longitude Dip at Collar -60°

Collar Elevation 950 m Commenced Drilling November 3, 1979

Total Depth 452 m Completed Drilling December 14, 1979

Logged By: B.W. Kyba

Core Size NQ/BQ Coring Method Wireline Drilling Contractor Connors Drilling Limited

<u>Survey Summary</u>				<u>Pertinent Assay Data</u>		<u>Pertinent Geology</u>	
Depth	Dip	Bearing	Method	Interval	% MoS	Interval	Rock Type
0	-60°	100°	Brunton	68-72 m	0.08	0-20	Overburden
271.3	-52°	105°	Sperry Sun	155-212 m	0.058	20-68	Mineralized biotite quartz monzonite with numerous feldspar porphyry dykes
341.4	-50°	103°	Sperry Sun			68-72	High silica rock
450.0	-48°	115°	Sperry Sun	164-192 m	0.09	72-100	Barren quartz feldspar porphyry dyke
						100-452	Mineralized biotite quartz monzonite with quartz porphyry and feldspar porphyry dykes
						159-206	Well developed quartz vein stockwork
						206-217	Large fault zone

AMAX MINERALS EXPLORATION

ERIE CREEK PROPERTY

DDH EC-79-20
SHEET 2 OF 25

carbonate & pyrite structures latest veins.

DEPTH METRES	GRAPHIC LOG				ASSAY INTERCEPTS	ASSAY DATA				VEINS						% MINERALS				NOTES		
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES		SAMPLE NO. AND INTERVAL	EST. MoS ₂	% MoS ₂	PPM Mo	Qtz	Qtz Py	Qtz MoS ₂	Py (TRC)	MoS ₂	Corb	K-Feid	Biotite	Musc	Py%			
34				24	60	60904			68	15	4	3	5	2							31.2 - 32.7 P bqm w/ qtz vein stockwork - not as well developed here but includes frgs siliceous phases & includes frags of dark brown hornblends hornblends w/ x-tal aggregate of Feldspar? white radiating masses & bluish drags conspicuous.	
36				28	10	"				10	2	1	2	-							32.7 - 33.5 brown po rich - 3% hornblends frag? w/ conspicuous F phenes in frgs brown groundmass maybe FP dyke cutting thro here too!	
38				22	10	60905			58	-	4	-	2	3							34.5 - 35 well structured qtz heeded P bqm - fracturing is locally very intense	
40				23	100	"				5	10	2	15	1							35 - 35.3 po rich brown FP - phenes are distinctly rounded upto 20 mm sharp 20°CA contact to light grey	
42				37	10	60906			70	-	4	2	-	-							35.3 - 39 light grey unmineralized unfractured P bqm with feldspars conspicuous (20mm) in fine grained groundmass F phenes 2% qtz phenes 10mm < 1% biotite 2% diaspore po to 1/2%	
44				15	10	"				18	4	3	2								39 - 39.1 black FP dyke	
46				21	100	60907			94	25		5	8	2							39.1 - 39.9 light grey microfractured & necked w/ qtz veins and pyrite structures. 1% pyrite frgs diaspore - fine grained equigr.	
48				12	100	(1)				2		2	1	-							39.9 - 40.9 light grey FBP aphanitic groundmass - gradational contact (?) to - cut by vertical qtz MoS ₂ veins trace py	
50				17	100	60908			280	40		5	10	2							40.9 - 41.6 dark grey FBP w/ 10% F phenes aphanitic dark groundmass gradational to trace py	
52				29	100	"				stockwork qtz veins 20/20cm											41.6 - 43.1 very dark brown sparse FP 2-5% phenes aphanitic to dg groundmass. white rounded F phenes. trace py.	
54				10	100	60909			92	stockwork & qtz vein - pyrite breccia												43.1 - 44 - microfractured bqm w/ qtz veins and MoS ₂ ool(?)
56				29	100	"				3	2	1	3	2								44 - 44.05 - brown FP dykelet to
58				14	100	60910			18	-	-	-	-	4								44.05 - 44.2 FBP aphanitic matrix.
60				60	100	"				3	3	-	2									44.2 - 45.4 aplite breccia w/ qtz vein frags - aplite & some light grey fine grained or comminuted? rock w/ frags of black FP, bqm & FBP included. - bx cut by pyrite fractures and MoS ₂ qtz.
62				15	70	60911			26	1	-	-	3	2								45.4 - 46.3 microfractured & mineralized P bqm w/ some qtz rich phases two ribbon banded qtz w/ MoS ₂ . trace 1/2% py
				12	100	"				1	-	-	3	2								46.3 - 48.1 - brown black unmineralized trace FP and FBP (gradational) includes frags of microfractured mineralized P bqm

- 48.1 - 47.2 microfractured Pbqm - very well developed quartz vein stockwork trace MoS₂ v. big. quartz veins generally larger to 20 mm on the brown FP dykes.
- 47.2 - 47.4 black FP.
- 47.4 - 47.3 stockwork in Pbqm - qm phases of equigranular bqm and subophytic gradational & intermixed. - stockwork better developed in medium grained - fine grained equigranular than in Pbqm.
- 50.3 - 50.7 black FP w/ frags of stockwork Pbqm - mafics (brihte to 10% - dark)
- 50.7 - 52.7 dark grey (brihte to 12%) microfractured qtz healed and qtz by MoS₂ veins Pbqm. Smoky quartz masses up to 50 mm size w/ MoS₂ & pyrite. ~~pyrite~~ white black fractured FP
- 52.7 - 53.1 crackle bx of light grey FBP (brihte medium grained 2%) aphanitic matrix - matrix of comminuted rock and pyrite
- 54.1 - 55.5 FBP w/ pyrite @ 1/2% trace cpy on F pheno borders - weakly developed foliation brachytic texture in brihte - includes frags of brown FP.
- 55.5 - 58.2 angular fragment? of brown FP - some brihte phases - contact is angular & slick - even some flow bending in FBP (grey) around frag edges. in brown FP plenos of white F up to 30 mm.
- 58.2 - 61.5 grey FBP - rare smoky qtz phases up to 5 mm - dense pyrite 1/2% trace of pu and cpy. v. fg. rock in aphanitic matrix F phenos white to 15 mm - brihte medium to fine grained (1-2 mm) 3%.
- 61.5 - 62 dark grey - black FP fragment? py - carb structure
- 62 - 62.4 crowded FBP cuts black FP - 70% rounded and embedded white phenos and smoky qtz (2 mm) atz phenos 10% of total pheno count. definitely cuts FP.
- 62.4 - 63 black FP border to
- 63 - 63.7 interior phase? of FBP composite dyke.
- 63.7 - 65.45 brds. phase of black FP minor brihte, trace py, po rock is not well structured 1/10 cm.
- 64.46 - 66.8

MoS₂ veins cut off by barren
qtz vein stockwork.

AMAX MINERALS EXPLORATION

ERIE CREEK PROPERTY

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DEPTH METRES	GRAPHIC LOG				ASSAY INTERCEPTS	ASSAY DATA				VEINS							% MINERALS			NOTES				
	LITH.	BEDDING	FAULTS	NUMBER PIERCED		SAMPLE NO. AND INTERVAL	EST. MoS ₂	% MoS ₂	PPM Mo	Qtz	Py	Qtz Py	Qtz MoS ₂	Py	MoS ₂	Carb	K-Feld	Biotite	Musc					
66				7	60912			164	16	3	4										64-65-66.8 - microfractured qtz vein stockwork in P bqm(?) that have appears to cut black FP! lenses of Pqm cut into FP on both contacts - contacts qtz rich w/ MoS ₂ several ages of qtz veins - best Mo veins seen yet are cut off by barren smoky qtz that form majority in stockwork. qm is very siliceous w/ dozen MoS ₂ veins			
68				11	"				18	4	5													
70				13	60913			500	silica rock > 90% silica															
72				14	"				3	-	6	-										66.8-68 qtz brecciated FP - qtz matrix & v. g. w/ MoS ₂ Py - Cpy - po fractures common.		
74				16	60914			10	-	1	-	-										68-70.3 > 90% silica rock - silica flooding into bqm? completes & partially replaces drags in qtz vein stockwork trace MoS ₂		
76				21	"				-	-	-													
78				16	60915			6	-	-	-											70.3-71.6 siliceous bqm equigranular medium grained MoS ₂ paint veins common 1/10cm. one ribbon banded MoS ₂ vein & porphyritic phases of bqm common.		
80				9	"				-	-	1	2										71.6-71.7 black FP.		
82				9	60916			4	-	-	-											71.7-76.9 siliceous light grey white F QFP druse & massive - no qtz v. g. - locally it looks br w/ black matrix -		
84				10	"				-	-	-													
86				4	60917			4	-	-	-											76.9-79 black QP cut by light grey QFP dykelets.		
88				11	"				-	-	-											79-100.4 grey QFP cut by carb & chl fractured (rare) & bleached QFP to pure white QFP (like surface dykes?)		
90				4	60918			4	-	-	-											79.8-88 pink & lds per phenos > white & lds per phenos		
92				5	"				-	-	-											82.3 - white > 1% < 3% in QFP! phenos 30% of rock in optically grey matrix. QFP is very massive - no v. g. no sulphides - locally approaches a CG qm (white phenos > 60%) includes frags of black FP and equigranular bqm.		
94				10	60919			4	-	-	-													
96				11	"				-	-	-													

inter

in sparse QFP (b) at least two
ages of MoS₂ on dry fractures, very
siliceous rock 1-2mm qtz phenos 80% of phenos, total phenos 5%.

AMAX MINERALS EXPLORATION*

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DEPTH METRES	GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA				VEINS				% MINERALS			NOTES	
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	EST. MoS ₂	% MoS ₂	PPM Mo	Qtz	Qtz Py	Qtz MoS ₂	Py	MoS ₂	Carb	K-Feld		Biotite
98					13	WC	60920			6									100.4-100.8 black QFP w/sg rhyphanite 1mm qtz eyes - fracture in 2 fractures.
100					15	WC	"												100.8-101.8 very siliceous light grey sparse QFP quartz < 2mm in aphanitic matrix, phenos 10% of rock sharp contact to QFP dykes - dykes cut off Smecky qtz in QFP (siliceous & wide spaced pyrite druse)
102					22	WC	60921			16	5	1	4	2					10.8-104 grey QFP w/ druse of sg siliceous QFP and trace po.
104					27	WC	"					1						trace po.	104-104.8 intrusion by of black FP includes trace of QFP and bqm (stockwork trace Mo)
106					17	WC	60922			146			1	4					104-106.2 black FP sparse porphyry trace druse py & carb fractures.
108					27	WC	"				10	4							106.2-107.5 microfractured qtz veinid bqm & subpbqm 1/2% py - MoS ₂ trace & vdg.
110					35	WC	60923			210									107.5-107.6 black FP
112					57	WC	"												107.6-102.8 microfractured subpbqm intensely fractured & quartz veins common MoS ₂ veins less common - trace
114					10	WC	60924			320									108.8-111.4 light grey siliceous sparse QFP - phenos 2-5% highly conspicuous aphanitic to vdg matrix of silica. vened and fractured like bqm but cuts all fractures in bqm & is younger than bqm. MoS ₂ common in veins > trace. includes druse of bqm.
116					11	WC	"												111.1-115.2 microfractured wk qtz MoS ₂ stockwork in subpbqm
118					26	WC	60925			110			10	3					113.2-114.4 dark grey QFP w/ qtz vns and vdg MoS ₂ (trace) and po, py, cpy on dry fractures (trace to 2 py)
120					21	WC	"	.03											114.4-115.4 qtz vein stockwork in bqm well developed w/ MoS ₂ est .03% vdg on dry fractures & with qtz.
122					14	WC	60926			64									115.4-115.5 black FP w/ MoS ₂ fractures & druse of bqm & cut by sparse QFP.
124					12	WC	"	.02					6	4					115.5-124.8 sparse QFP fracture idio py to 1% type
126					16	WC	60927	.02		236			6	5					
126					22	WC	"	.04											qr vein stockwork in bqm here. 17/100cm.

AMAX MINERALS EXPLORATION

ERIE CREEK PROPERTY

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DEPTH METRES	GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA				VEINS						% MINERALS				NOTES		
	LITH.	BEDDING	FAULTS NUMBER	PIECES			SAMPLE NO. AND INTERVAL	EST. MoS ₂	% MoS ₂	ppm Mo	Qtz	Qtz Py	Qtz MoS ₂	Py	MoS ₂	Carb			K-feld	Biotite		Musc	Y%
130					17	100	60928			380				qtz vein Mo stockwork w/ Boudin / 10cm, 1/2% py, trace PO.									126.8 - 127.1 black FP cuts bgm and sparse QFP - forms contact.
					14	100	"						" " "										127.1 - 127.9 intense qv stockwork in sub P bgm - ribbon banded MoS ₂ veins up to 50 mm w/ vfg MoS ₂ .
132					43	100	60929			150			stockwork in bgm - vfg vfg in										127 - 130.1 black FP w/ MoS ₂ fractures - contact here
134					14	100	"						MoS ₂ in FP dyke w/ cpy, cpy (trace) qtz in stockwork in bgm.									130.1 - 130.4 pegmatite and bgm	
138					19	100	60930	03		350			MoS ₂ in qtz in stockwork (vfg) of heavy MoS ₂ like vfg stockwork veins										130.4 - 130.8 black FP w/ drag of bgm
142					30	100	"	tr					well fractured stockwork 1 in / 20 mm w/ MoS ₂										130.8 - 132.5 micro fractured qtz in stockwork bgm w/ MoS ₂ - 0.2% vfg - some very siliceous phases in bgm (like sparse QFP?)
146					24	100	60931			46	4	5	2										132.5 - 133.7 black FP.
148					27	100	"					4	5										133.7 - 134.9 interior grey FBQP composite w/ carbonate fractures
150					13	100	60932			28		2	1										134.9 - 135.4 black border phase FP.
152					10	100	"				4	2	3										135.4 - 138 microfractured w/ qtz vein stockwork bgm locally well developed delictal in bgm 25° CA - MoS ₂ in pegmatite veins here. - contact w/ black FP & sparse QFP.
154					19	100	60933			34													138 - 142 sparse QFP (3% biotite) quartz to veins & larger phenas to 4mm. mineralized w/ MoS ₂ , py, cpy, po (trace cuts) & MoS ₂ in qtz & dry fractures, other sulphides on dry fractures. chlorite slickensides
156					35	100	"																140.8 - 141 coarse bn in sparse QFP.
158					40	100	60934			52													141 - 142 good qtz in stockwork in sparse QFP. - 1% py, tr cpy, po, MoS ₂ .
160					20	100	"				2	1		2									142 - 143.1 black FP. includes drags of bgm stockwork, 1/2% py, w/po.
162					10	100	60935			90	2	2											143.1 - 146.2 interior phase FBQP. includes FP frags and 1/2% druse py - border of 20mm black FP cut by:
164					2	100	"																146.2 - 147.2 pink sparse QFP dyke cuts black FP border phase & includes drags of black FP vfg QFP & narrow w/ qtz
							"																147.2 - 148.2 black FP < 1% phenic crystals - black rock

- 148.2 - 150.5 - mixed zone of black FP and pink sparse- page 5a
GFP - frags of both in each - majority is sparse GFP in
black FP.
- 150.5 - 152.4 - intensely argillized rock - > 90% argillite to no original
rock left - matchite trace.
- 152.4 - 155.2 - mixed pink sparse GFP and black FP. - pink GFP appears to
be "replacing" the black FP - qtz vns seen in GFP but not in FP.
- 155.2 - 157.1 - black FP - < 1% white feldspar phenos.
- 157.1 - 157.5 - pink FP w/ abundant rounded frags of black FP.
- 157.5 - 158.5 - black FP < 1% white F phenos. trace py on fractures ← vng?
- 158.5 - 160.8 - pink sparse GFP - very irregular contacts to black FP.
160.8 - weak qtz vng - not a stockwork.

two ages of FP - very late & very early - 170-175m FP hornfelsed & included in bqm!

AMAX MINERALS EXPLORATION

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DEPTH METRES	GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA				VEINS						% MINERALS				NOTES
	LITH.	BEDDING	FAULTS	RUBBER PIECES			SAMPLE NO. AND INTERVAL	EST. MoS ₂	% MoS ₂	POM Mo	Q12	Q12 Py	Q12 MoS ₂	Py	MoS ₂	Carb	K-Feld	Biotite	Musc	Py	
162					50	65	60936			50		5		1	2						160.8-161.8 microfractured subP bqm w/ky developed qtz vn stockwork. trace MoS ₂ .
164					20	100	"					10									161.8-164.1 pink sparse QFP - phenos 5% - qtz 1-2mm 70% of pheno total biotite fine grained and 1% of rock. siliceous fine grained gnd mass.
166					25	100	60937			430		50									164.1-166.7 brecciated and qtz vn stockwork in horridly stress in microfractured bqm.
168					29	100	"														164.8 - 165.3 intense qv stockwork - trace Mo the Mo is discontinuous along the veins. locally the bqm is completely altered by qtz vng to bleached white rock.
170					27	100	60938		.077	460		3		1							166.7-170.3 black dark brown sparse FP <1% w/ky Fphenos include frags of bqm stockwork - plus this is a dyke breccia - py Mo in structure
172					11	100	"														167-167.4 siliceous bqm frag? w/ qtz ven stockwork
174					34	100	60939		.091	650											170.3-175.3 microfractured bqm - weak qtz ven stockwork 3 ven/10 cm trace MoS ₂ - cut by black FP dykelets and hostalt by sparse QFP dykelets. the FP has been hornfelsed by bqm & frags of FP common in bqm here - fractures in bqm w/ py, po, cpy trace and unique MoS ₂ fractures - no py - no po - no cpy. assoc w/ Mo. 1/2% py. trace down Mo too!
176					12	100	"					1		2							175.3-176.7 grey FQP w/ biotite sharp contact & cutting bqm. unmineralized. except for rare MoS ₂ fractures - intensely siliceous gnd mass.
178					36	100	60940		.03	.158	950										176.7-180.1 microfractured, qtz vn stockwork w/ MoS ₂ in bqm & subP bqm contact to FQP w/ FP dyke
180					22	100	"		.04												177-180 - MoS ₂ vn very abundant - 1 section in bleached siliceous bqm.
182					23	100	60941		.05	.108	650	10		5	2						
184					9	100	"		tr			4		1	1						
186					14	100	60942		"	.04	290	8		4	2						
188					6	100	"		"			8		2	2						
190					13	100	60943		tr	.10	600										
192					30	100	"		tr												

apltic
Altered
apltic
bqm
Fracture
dyke

page 6a.

180.1 - 182.4 brown hornfels FP w/ Mo fracture & veins - slickensides on
MoS₂ vein here. py, po, cpy rare. includes several mineralized
trags of bqm - ϵ is cut by qtz-Mo vns itself.

1) bqm \leftarrow FP? (hornfels)

1a qtz vein stockwork w/ Mo

2) FP

2a qtz vein stockwork w/ Mo

182.4 - 182.7 pink quartz QFP dyke cut FP and bqm.

182.7 - 184 bqm - w/ Mo in qtz - along margin & down in larger
swags of qtz vns.

184 - 188.4 brown and black FP w/ qtz vns, qtz Mo vns ^{ϵ parallel to melt - Mo vns} 1/5 cm. some
all settings vns < 2% white F phenos.

188.4

black FP rips up trags from white ^{APLITE} ~~spars~~ FP w/ 2-3% biotite
in fine grained siliceous gnd mass. well developed qtz vein stockwork w/
.02 range MoS₂. w/ 12 vns/20 cm. 2-3 m mineralized.
2-3% biotite cut by (?) ϵ with less Mo qtz
veins

248 - 248.9

fine-medium grained equigranular bqm - bleaching strong along chlonite - calcite fractures - subfl @ 20°C.

248.9 - 249.1

ripped up frags of dk brown - black FP cut by dk kylets of bqm - still bleached by chl-calc fractures - chl is clay?

249.1 - 250.4

QFBP dyke - frags of FP included - not microfractured like bqm & aphanitic groundmass but still cut by clay-calcite bleached fractures. fr scattered by Mos₂ on dry fractures & qtz vn. cuts bqm & QFBP.

250.4 -

~~250.4~~ 252.7

microfractured bqm - weak qtz vn'g trace Mos₂ on fractures & qtz vns includes FP frags (bleached) - 5% pyrite^{fr} po, cpy on fractures.

252.7 - 253.1

bleached FP frag in bqm (some sub porphyritic phases) FP cut by qtz vns & py now too.

253.1 -

weak qtz vn - fracture stockwork in bqm

253.2 - 254.3

weak to moderately argillized bqm w/ pale yellow chl-clay mineralization on late fractures - some coarse calcite masses

Mos₂ vdy scattered ground to vdy point on 5% of total fractures & qtz vns.

- 5% py disseminated structure, trace po, cpy

- some pyrite phases.

NOTE: December 4, Box 51 drish logging
start again @ 312 m w/ vein counts.

AMAX MINERALS EXPLORATION

- late clay-calcite fractures cut all rock types & bleached margins
- py-pc fractures cut MoS₂ fractures & vn.
- 294 first fracture seen w/ py, MoS₂ & cpy.

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DEPTH METRES	GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA				VEINS						% MINERALS			NOTES	
	LITH.	BEDDING	FAULTS	NUMBER OF PLACES			SAMPLE NO. AND INTERVAL	EST. MoS ₂	% MoS ₂	PPM MO	Qtz	Qtz Py	Qtz MoS ₂	Py	MoS ₂	Carb	K-Feld	Biotite	Musc		
278				9	10		60968	tr		116											278.4 - 301 subP bqm. weakly developed resulting fracture & qtz vn stockwork MoS ₂ scattered by endofractures & vsg on margins of qv's
282				10	10		"	tr													272.8 - 273.4 bqm cuts black FP (traces of) FP in bqm along contact. qtz MoS ₂ vsg cuts FP too! & py-pc fractures.
284				10	10		60969	tr		190											296 - 301 - very well developed qtz vn - & py fracture stockwork in bqm (mg equiv) MoS ₂ on margins on qtz vn & on py fractures - 0.3 range locally - vsg MoS ₂ - vas offset & chopped up by fractures. & other vns.
286				8	10		"	tr													301 - 302.7 fracthylic dark grey biotite FP w/ traces of black FP & cut by py qtz vns (not stockwork vns)
288				7	10		60970	o2		200											302.7 - 303.1 stockwork bqm
290				7	10		"	o3													303.1 - 303.4 black FP dyke (?)
292				10	10		60971	tr		90											303.4 - 304.6 stockwork bqm
294				10	10		"	"													304.6 - 304.8 black FP dyke cuts bqm. not qtz vnl'd - rare pyrite fractures.
296				4	10		60972	tr		130											304.8 - 310.5 weak stockwork w/ trace MoS ₂ in bqm - qtz vn 1-4mm and < 5/foot.
298				4	10		"	-													310.5 - 311 brecciated black brown FP by light grey FP (chillmark bqm?)
300				21	10		60973	tr	033	200											311 - 312.6 black brown FP qtz vnl'd & py fractures - trace MoS ₂ , & cpy schalite in qtz vn 20mm wide @ 312.
302				9	10		"	o2													312 - 312.6 FP breccia - light FP may be chillmark bqm?
304				15	10		60974			260											
306				8	10		"														
308				12	10		60975			180											
310				12	10		"														

Sub

low the
of FP
at 312

fracture
aplite
stockwork in

EC79-1
10a

312.6 - 319.3 - P bqm - 3 fracture/m, .5% py as dust in fractures
trace Mosz, rare qtz-Mo vn's up to 1 cm wide
not a well fractured rock.

319.3 - 319.5 - black streak banded volc. frag? w/ irregular
white F φs (2%) - brown & green bands common
in cut dry qv's.

319.5 - 321.4 white intensely fractured aplite, 0.05 Mosz
range as paint on fractures, aplite siliceous rock fine-medium
grained (bqm) includes more frags of green, brown,
black banded FP (volcanics?).

ECTA-1, 12a

- 378.1 - 379.5 - weakly fractured Pqm (white)
379.5 - 380.2 - black FP (qtzms & not well fractured)
380.2 - 380.5 - white Pqm
380.5 - 383.1 - black chill FP margin on grey "mega" FDP dykes
(large white Fpheno's to 1.5 cm. weakly det. 30°C)
fresh & massive.
383.1 - 384.2 white bqm - med grained equigranular.

AMAX MINERALS EXPLORATION

ERIE CREEK PROPERTY

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DEPTH METRES	GRAPHIC LOG			% REC.	ASSAY INTERCEPTS	ASSAY DATA			VEINS					% MINERALS			NOTES	
	LITH.	BEDDING	FAULTS NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	MoS ₂	% MoS ₂	Qtz	Qtz Py	Qtz MoS ₂	Py (structures)	MoS ₂	Carb	K-Feld	Biotite		Musc
384	FP			8	100	60992	28			1	-							384.2 - 387.2 black FP breccia to mega FbQP intercr phase of dyke
387	FP			11	100	"				1	-							387.2 - 390.4 mixed zone of FP frags in FbQP & vice versa! - no sulphides (black FP more common in FbQP @ fragments.
390	FP			10	100	60993	54			-	-							390.4 - 391.1 mafic (5% biotite) mega FbQP
392	FP			13	100	"				-	-							391.1 - 391.6 bqm
394	FP			4	100	60994	20			-	-							391.6 - 392.4 black FP → mega FbQP
396	FP			6	100	"				-	-							392.4 - 393.2 bqm - FP breccia zone - frags of FP in bqm (maybe this is megacrystic FbQP?)
398	FP			5	100	60995	24			-	-							393.2 - 399.9 mega FbQP dyke cut & argillized fault zone 399.5 - 399.9
400	FP			15	100	"				-	-							399.9 - 400.9 - dmé - med grained bqm. - no or trace sulphides.
402	FP			8	100	60996	90			-	-							400.9 - 407.7 mega FbQP dyke w/ narrow black FP chill margins.
404	FP			7	100	"				-	-							404.8 - 404.9 dyke is argillized along fractures
406	FP			14	100	60997	160			-	-							407.7 - 411.9 fracture - quartz stockwork in bqm trace MoS ₂ , 1% py, po, trace cpy.
408	FP			5	100	"				-	-							411.9 - 412.6 black FP w/ quartz vn.
410	FP			3	100	60998	114			6	2	3	2					412.6 - 412.9 FP - bqm breccia
412	FP			4	100	"				7	3	5	1					412.9 - 416.4 - siliceous bqm & FP breccia - frags of bqm increase w/ depth till FP gone & looks like frags of FP in bqm!
414	FP			5	100	60999	84			1	-	-	-					
416	FP			4	100	"				1	-	-	-					

AMAX MINERALS EXPLORATION

ERIE CREEK PROPERTY

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DEPTH METRES	GRAPHIC LOG				ASSAY INTERCEPTS	ASSAY DATA				VEINS						% MINERALS			NOTES
	LITH.	BEDDING	FAULTS	NUMBER OF PLAGES		% REC.	SAMPLE NO. AND INTERVAL	PPM MoS ₂	% MoS ₂	Qtz	Qtz Py	Qtz MoS ₂	Py	MoS ₂	Corb	K-Feld	Biotite	Musc	
418				5	100	61350	150		-	-	-	-	-						416.4-420.4 Pbqm - weakly foliated 30°C - no v'n'g or fracturing - med grained equigranular rock. - lack of fracturing & v'n'g in intrusive nature into FP in breccia suggest this Pbqm may be interphase of dyke?
420				7	100	"			-	-	-	-	-						
422				4	100	61351	90		-	-	3	2							
424				11	100	"			-	-	4	2							420.4-420.6 black FP.
426				10	100	61352	178		2	-	4	-							420.6-421.6 west fracture structure in Pbqm (pink)
428				5	100	"			4	1	4	2							421.6 - black FP grades into Pbqm - weakly foli. & fractured
430				18	100	61353	84		3	-	4	-							423.4 - Pbqm includes frags of FP. contact w/ black of cp & py & po. & - porphyritic med grained 3% bio
432				10	100	"			3	-	2	-							426.6-426.7 black FP.
434				14	100	61354	120		2	-	2	-							426.7-427.1 white apite cuts FP and mg bqm & is still fractured & v'n'd
436				10	100	"			4	1	-	1	2. mg calcite 2mm structures						427.1-428.9 fine grained white bqm fractured & rare v'n'g. hairline structures are well bedded to almost ghostly appearance
438				7	100	61355	174		2	-	3	-	2						428.9-432.3 black FP - rare v'n'g
440				8	100	"			-	-	5	-	1						431.8-432 black FP frags ripped up in white bqm dyke
442				5	100	61356	156		-	-	-	4	-	1					432.3-447.2 fine grd equigranular bqm weakly foliated 30°C & rare fractures & v'n's. dk gray rock
444				14	100	"			-	-	-	12	-	4					434.8-438.9 black FP dyke
446				9	100	61357	186		-	-	-	10	-	3					438.8-438.2 " " "
448				20	100	"			2	-	-	4	-						442-445 - argillitic coated fractures (clay) in 1 fracture/10cm - w/ peg segregation & po. tr.

AMAX MINERALS EXPLORATION

ERIE CREEK PROPERTY

DDH ECR-1
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DEPTH METRES	GRAPHIC LOG			% REC.	ASSAY INTERCEPTS	ASSAY DATA				VEINS						% MINERALS			NOTES
	LITH.	BEDDING	FAULTS			SAMPLE NO. AND INTERVAL	MoS ₂	% MoS ₂	Qtz	Qtz Py	Qtz MoS ₂	Py	MoS ₂	Carb	K-Feld	Biotite	Musc		
45				6	(S)	4358	116	-	-	-	-	-						449.6-449.85 - white finegrd bqm dyke cuts black FP.	
46				9	(S)	"		1	1	-	-	-						451 - 451.2 - " " "	
452.3				2	(S)	"		2	-	-	-	-						451.3 - 451.3 452 mega FbP (fine grained mafic gndmass & black FP breccia - FP frags in mega FbP gndmass.	
452.3																		452 - 452.3 (OH) black FP.	