861530

Feb. 1,1988,
2644-10 TH. AVE.,
Castlegar,B.C.
V1N3A2

ASSAY FOR

BR 24----HODER CREEK GARNET EGGS	RARE EARTHS	ZONE 1
BR 23 ---HODER CREEK AS IN ASSAY	RARE EARTHS	ZONE 1
BR 22----CAT CLEARING	RARE EARTHS / Br ?	ZONE 2
BR 21----NOT IN PLACE ROCKS AROUND BR 20	RARE EARTHS	ZONE 2
BR 20----ROOT SAMPLE AS PER ASSAY	RARE EARTHS	ZONE 2
B5-------150 METERS FROM BR22	RARE EARTHS & BASE METALS	ZONE 2
B8-------ROSSLAND VUGGY QUARTZ	GOLD ?	ZONE 3
B7-------50 METERS BELOW B8	RARE EARTHS & BASE MEATALS	ZONE 3

Dear ED:

'Enclosed is an old geology map of the area. I have marked the approximate locations with an x and numbered them 1,2,3 to correspond to the zones above. If you have any questions fell free to call and i will try and answer them.

NELSON AREA

yours truly,

Steve Gaszty

OFFICE OF THE CHIEF ANALYST AND ASSAYER

THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA

SAMPLES FOR RARE EARTH ASSAYS

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM S. PASZTY

ADDRESS 1022 10th Avenue S., Castlegar, B. C.

T - Trace N.D. - No Detection — SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSIS IN %

Laboratory No.	799
Submitter's No.	9565A
Si	>10.0
Mn	0.22
Al	3.5
Mg	1.5
Pb	0.1
Ca	5.0
Fe	11.5
V	0.01
Cu	0.02
Ag	T
Zn	-
Na	0.65
K	-
Ti	0.3
Zr	>2.0
Ni	T
Co	0.01
Sr	T
Cr	T
Ba	0.06
Traces:	Mo, Sn, Be, Nb
Y	0.2
Yb	0.05
Ce	0.06
La	0.05
Nd	0.04
Th	>>2.0
U	N.D. (<500 ppm)

SAMPLE # BR 23

DATE September 12, 1977

W. F. Johnson

CHIEF ANALYST AND ASSAYER

E OF THE CHIEF ANALYST AND ASSAYER

THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM G. ADDIE

ADDRESS 310 Ward Street, Nelson, B. C.

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSIS

aboratory No.	18316M	18317M
ubmitter's No.	(X-Ray Samples)	
Si	>10.0	>10.0
Mn	T	-
Al	1.2	T
Mg	0.06	T
Pb	T	0.4
Ca	<1.0	<1.0
Fe	0.2	0.25
V	T	T
Cu	T	T
Ag	-	-
Zn	-	-
Na	0.4	-
K		-
Ti	T	T
Zr	T	>5.0
Ni	T	
Co	-	
Sr		T
Cr		
Ba	T	T
Traces:	Be,Y,Yb	Be,Yb
U	0.16	N.D.
Th	N.D.	>10.0
P	N.D. (<0.5%)	Y 0.07 La 0.05 Nd 0.05

SAMPLE # BR 23

DATE November 18, 1977

W. M. Johnson

CHIEF ANALYST AND ASSAYER

OFFICE OF THE CHIEF ANALYST AND ASSAYER

DEPARTMENT OF ~~ENERGY~~ MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM ALEC TEREKOFF

ADDRESS Site 17, Comp. 8, SS 2, Castlegar, B. C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
2687	4864 E RIGHT HOLE	Spectrochemical Analysis: 0.3% Copper; 0.025% Zinc; 0.01% Nickel; 0.01% Cobalt and 2.5% Arsenic were found. The other base metals found, and their percentages, were those occurring normally in rocks. Gold - 0.25 oz. per ton Silver - Trace
2688	4865 E CAT CLEARING	Spectrochemical Analysis: 0.15% Copper; 0.01% Nickel and 0.1% Cobalt were found. The other base metals found, and their percentages, were those occurring normally in rocks. Gold - Trace Silver - Trace
2689	4866 E TREE ROOT	Spectrochemical Analysis: 0.05% Copper; 0.012% Cobalt; 0.03% Lanthanum; 0.05% Cerium and 0.02% Neodymium were found. The other base metals found, and their percentages, were those occurring normally in rocks. SAMPLE # BR20 Gold - Trace Silver - Trace

DATE July 5, 1979

W. D. Johnson
CHIEF ANALYST AND ASSAYER.

PASZTY B8

LIMONITE STAINED, VUGGY QZ VEIN, QZ IS MILKY WHITE TO TRANSLUCENT. LIMONITE FORMS DRY BONE TEXTURE IN VUGS NO VISIBLE SULPHIDES.

B7

MASSIVE FINE GRAINED ANDESITE, WITH 1% EUHEDRAL MEDIUM GRAINED BLEBS AND DISSEMINATIONS OF PYRITE, LIGHT LIMONITE STAINING ON WEATHERED SURFACES.

BR22

FG. ANDESITE, WITH OCCASIONAL EUHEDRAL PYRITE CUBES, LIGHTLY LIMONITE STAINED ON WEATHERED SURFACES.

P L A C E R D O M E I N C (V A N C O U V E R L A B O R A T O R Y)

GEOCHEMICAL DATA LISTING: BC GEN EXPL NELSON DATE: 88:10:20

PDL lab data file: P8376

AREA: NELSON
MAPSHEET NO: 82FW
VENTURE: BC GEN EXPL
GEOLOGIST: E KIMURA
LAB PROJECT NO: 8376

PLEASE DISTRIBUTE RESULTS TO: EK LR MG RH LAB

REMARKS:
"AU1 RESULTS REPORTED IN PPB; RESULTS UNDER THE AU HEADING "
"ARE REPORTED IN PPM FROM THE MET LAB"

STANDARD ANALYSIS METHODS USED BY PDL GEOCHEM LAB ARE LISTED BELOW:
ALL RESULTS EXPRESSED AS INDICATED IN UNITS COLUMN BELOW
ANY EXCEPTIONS FOR THIS PROJECT ARE NOTED ABOVE

REMARKS: INTERNAL LAB STANDARDS HAVE BEEN INCLUDED FOR REFERENCE.
SAMPLE NUMBERS FOLLOWED BY * ARE DUPLICATE ANALYSES.

	UNITS	WT.G	ATTACK	USED	TIME	RANGE	METHOD
MO	PPM	0.5	HCL04/HN03		4HRS	1-1000	ATOMIC ABSORPTION
CU	PPM	0.5	HCL04/HN03		4HRS	2-4000	ATOMIC ABSORPTION
ZN	PPM	0.5	HCL04/HN03		4HRS	2-3000	ATOMIC ABSORPTION
PB	PPM	0.5	HCL04/HN03		4HRS	2-3000	A.A. BACKGROUND COR.
CD	PPM	0.5	HCL04/HN03		4HRS	0.2-200	A.A. BACKGROUND COR.
NI	PPM	0.5	HCL04/HN03		4HRS	2-2000	ATOMIC ABSORPTION
CO	PPM	0.5	HCL04/HN03		4HRS	2-2000	ATOMIC ABSORPTION
AG	PPM	0.5	HCL04/HN03		4HRS	0.2-20	A.A. BACKGROUND COR
AU	PPM	10.0	AQUA REGIA		3HRS	0.01-4.00	A.A. SOLVENT EXTRACT.
AU1	PPB	10.0	AQUA REGIA		3HRS	5-4000	A.A. SOLVENT EXTRACT.
U	PPM	0.25	DIL HN03		2HRS	1.0-1000	FLOURIMETRY SOLV. EX.
V	PPM	0.5	HF/HCL04/HN03/HCL		6HRS	5-1000	ATOMIC ABSORPTION
W	PPM	0.5	HCL04/H3P04		2HRS	2-1000	DC PLASMA
F	PPM	0.25	NA2C03/KN03	FUSION	30MIN	40-4000	SPECIFIC ION ELECTRODE
AS	PPM	0.5	AQUA REGIA		3HRS	2-2000	DC PLASMA
SB	PPM	0.5	HCL/HN03		3HRS	2-2000	DC PLASMA
BI	PPM	0.5	HCL04/HN03		4HRS	2-2000	A.A. BACKGROUND COR.
MN	PPM	0.5	HCL04/HN03		4HRS	2-2000	ATOMIC ABSORPTION
FE	%	0.5	HF/HCL04/HN03/HCL		6HRS	0.02-20%	DC PLASMA
HG	PPB	0.25	DIL HN03/HCL		2HRS	5-2000PPB	A.A. COLD VAPOR GEN.
BA	%	0.25	HF/HI/OXALIC		4HRS	0.02-20%	ATOMIC ABSORPTION
NA	%	0.5	HF/HCL04/HN03/HCL		6HRS	0.2 -20%	DC PLASMA
K	%	0.5	HF/HCL04/HN03/HCL		6HRS	0.2 -20%	DC PLASMA
CA	%	0.5	HF/HCL04/HN03/HCL		6HRS	0.02-20%	DC PLASMA
SR	PPM	0.5	HF/HCL04/HN03/HCL		6HRS	10-2000	DC PLASMA
MG	%	0.5	HF/HCL04/HN03/HCL		6HRS	0.2-20%	DC PLASMA
SN	PPM	1.0	NH4I FUSION		15MIN	5-500	A.A. SOLVENT EXTRACT.
PT	PPB	25.0	FIRE ASSAY		45MIN	DL 10PPB	DC PLASMA
PD	PPB	25.0	FIRE ASSAY		45MIN	DL 5PPB	DC PLASMA
LOI	%	1.0	ASH 600 DEG C		2HRS	0.02-99%	WEIGH RESIDUE

June 1st

PLACER GEOCHEM ASSAY SYSTEM: DATA FROM BC GEN EXPL NELSON DATE: 88:10:20 PAGE: 1

GRID	SAMPLE	PROJECT		MO	CU	ZN	PB	NI	AG	AU	AS	SB	AU1
82FW	PASZTY	B8	8376	41	205	21	0.22%	13	65	10.5	84	<2	10500
82FW	PASZTY	B7	8376	13	84	74	14	25	0.6		<2	<2	85
82FW	PASZTY	BR22	8376	1	620	41	75	56	0.6		99	<2	540
82FW	PASZTY	BR22*	8376	1	620	42	76	55	5.6		100	<2	645

END OF LISTING - 4 RECORDS PRINTED
GCLIST RUN AT: 15:35:37

AUTOVALU

PLACER DEVELOPMENT LIMITED: GEOCHEM ASSAY SYSTEM

Following elements needed some values adjusted:

ELEMENT	NSS	LOW	HI	%	BLNK	NVAL
PB	0	0	0	1	0	3
AS	0	1	0	0	0	3
SB	0	3	0	0	0	3

1 records skipped: tests, duplicate analyses

SUMMARY OF GEOCHEM DATA: BC GEN EXPL NELSON

ITEM	# VALUES	MISSING	MINIMUM	MAXIMUM	AVERAGE	STD. DEV.
GRID	3	0	82FW	82FW		
SAMP	3	0	PASZTY	PASZTY		
PROJ	3	0	8376	8376		
AG	3	0	0.60	65.00	22.07	37.18
AS	3	0	1.00	99.00	61.33	52.79
AU	1	2	10.50	10.50	10.50	0.00
AU1	2	1	85.00	540.00	312.50	321.73
CU	3	0	84.00	620.00	303.00	281.12
MO	3	0	1.00	41.00	18.33	20.53
NI	3	0	13.00	56.00	31.33	22.19
PB	3	0	14.00	2200.00	763.00	1244.85
SB	3	0	1.00	1.00	1.00	0.00
ZN	3	0	21.00	74.00	45.33	26.76

END OF GCHSCAN: DATE: 88:10:20 time: 15:35:37 3 RECORDS PROCESSED

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

SHEET 82F (West Half)

LEGEND

CENOZOIC

TERTIARY
EOCENE (?) OR LATER

22–24 — **22.** *CORYELL PLUTONIC ROCKS: syenite; minor granite, monzonite and shonkinite;* **22a**, *porphyritic augite monzonite;* **22b**, *pulaskite*
23. *SHEPPARD PLUTONIC ROCKS: leucocratic granite*
24. *McGREGOR INTRUSIONS: shonkinite*

CRETACEOUS (?)
UPPER CRETACEOUS OR (?) LATER

21 — *SOPHIE MOUNTAIN FORMATION: conglomerate; minor argillite*

LOWER CRETACEOUS (?)

20 — *VALHALLA PLUTONIC ROCKS: granite; minor pegmatite;* **20a**, *granite and granodiorite*

19 — *NELSON PLUTONIC ROCKS:* **19a**, *mainly porphyritic granite;* **19b**, *non-porphyritic granite to granodiorite;* **19c**, *granodiorite;* **19d**, *quartz diorite;* **19e**, *syenite;* **19f**, *mainly fine-grained, porphyritic syenite to quartz diorite;* **19g**, *Rossland "monzonite";* **19h**, *pseudodiorite and pyroxene-hornblende-biotite rock;* **19i**, *mylonite;* **19j**, *pegmatite;* **19k**, *diorite*

MESOZOIC

18 — *Ultrabasic rocks: serpentinite*

JURASSIC
MIDDLE AND (?) UPPER JURASSIC

17 — *HALL FORMATION: argillite, sandstone, and conglomerate;* **17a**, *may not be Hall*

LOWER JURASSIC

16 — *ROSSLAND FORMATION: andesite, latite, basalt, flow breccia, augite porphyry, agglomerate, tuff; minor shale;* **16a**, *metamorphosed greenstone (may not be Rossland)*

15 — *SINEMURIAN BEDS: argillite, argillaceous quartzite, slate; minor flows and pyroclastic rocks. May be equivalent to upper parts of 13 and 14*

TRIASSIC AND (?) LOWER JURASSIC

12,13 — **12.** *KASLO GROUP: greenstone; minor slate (Triassic)*
13. *SLOCAN GROUP: slate, argillite, quartzite, limestone, conglomerate, tuff;* **13a**, *includes some volcanic rocks;* **13b**, *paragneiss (probably Slocan group)*

PERMIAN (?), TRIASSIC (?) AND LOWER JURASSIC (?)
YMIR GROUP

14 — *Argillite, slate, argillaceous quartzite; minor limestone;* **14a**, *paragneiss*

PENNSYLVANIAN (?)

11 — *MOUNT ROBERTS FORMATION: slate, limestone, argillaceous quartzite, greenstone*

PALÆOZOIC

ORDOVICIAN
LOWER AND (?) MIDDLE ORDOVICIAN

9 — *ACTIVE FORMATION: slate, argillite, argillaceous quartzite; minor limestone*

CAMBRIAN
MIDDLE CAMBRIAN

8 — *NELWAY FORMATION: dolomite, limestone, phyllite, and slate*

LOWER CAMBRIAN

7 — *LAIB FORMATION: argillite, argillaceous quartzite, limestone, dolomite, phyllite, and schist;* **7a**, *includes some Reno formation*

5,6 — **5.** *QUARTZITE RANGE FORMATION: white, green, and pinkish quartzite; minor argillaceous quartzite and conglomerate*
6. *RENO FORMATION: argillaceous quartzite, schist, and argillite; minor limestone*

10 — *White quartzite, schist, limestone, and paragneiss; minor argillite and greenstone*

WINDERMERE (?)

4 — *THREE SISTERS FORMATION: green grit, quartzite, and conglomerate*

PROTEROZOIC

WINDERMERE

3 — *MONK FORMATION: green argillite, phyllite, and argillaceous schist; minor limestone; basal conglomerate*

1,2 — **1.** *TOBY FORMATION: conglomerate; minor interbedded argillite and limestone*
2. *IRENE VOLCANIC FORMATION: greenstone, minor interbedded argillite and limestone*

B — *Argillite, argillaceous quartzite, greywacke; locally conglomerate; minor flows and pyroclastic rocks. Probably not older than Carboniferous, but in part may be Jurassic*

A — *Augen gneiss, hornblende-biotite-feldspar gneiss; minor crystalline limestone and skarn. Probably Early Mesozoic*

Drift-covered area
Bedding (inclined, overturned)
Bedding (vertical; tops known, tops not known)
Bedding (dip known, top of bed unknown)
Schistosity (inclined)
Gneissosity, stratiform foliation (inclined, vertical)
Fault (defined, approximate, assumed)
Anticline, syncline (defined)
Anticline, syncline (overturned)
Fossil locality

Geology compiled from published maps and field work by H.W. Little 1948-1950, 1952

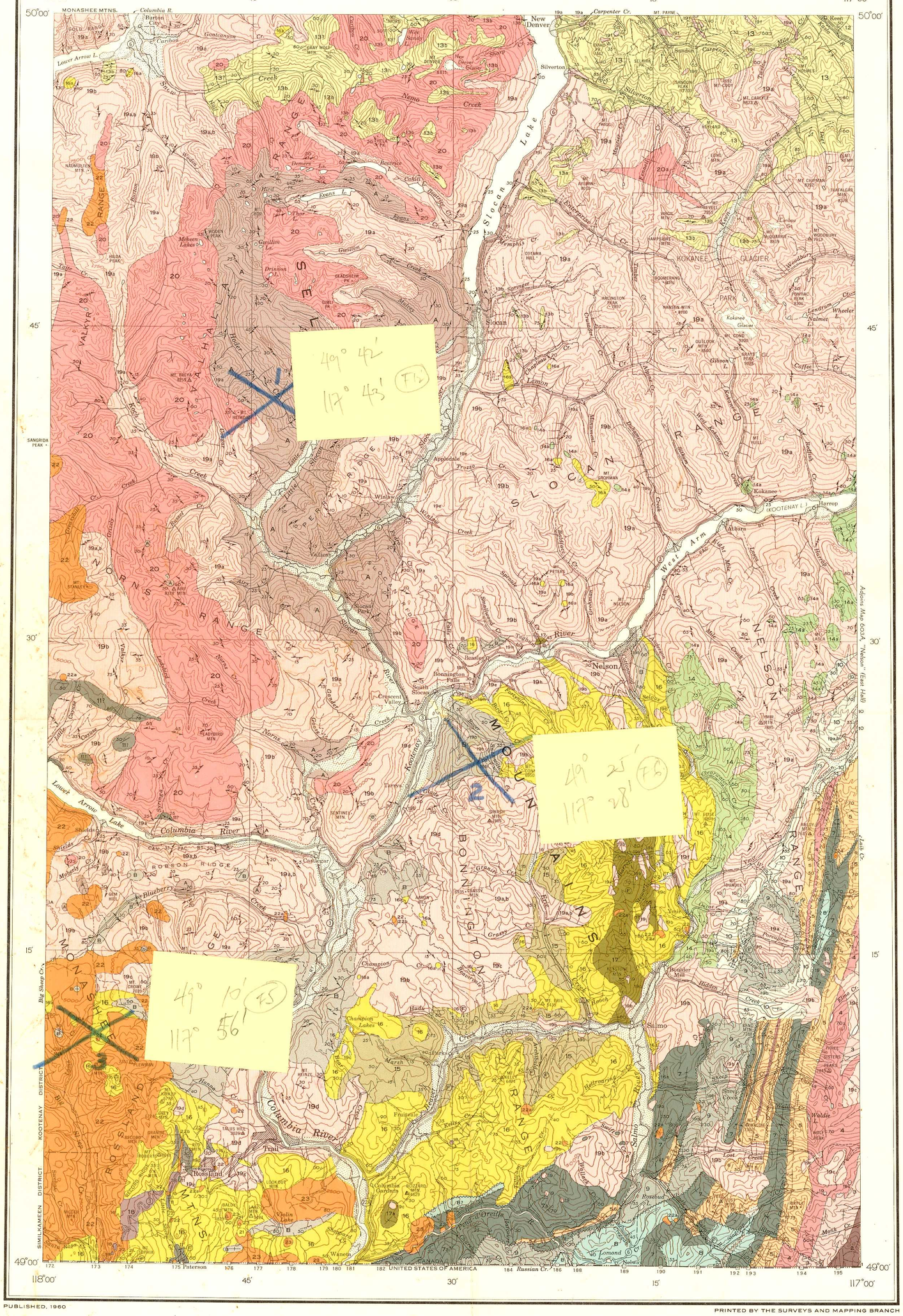
To accompany G.S.C. Memoir 308 by H.W. Little

For Mining properties see Map 1091A, "Nelson" (West Half)

Base-map compiled by the Surveys and Mapping Branch

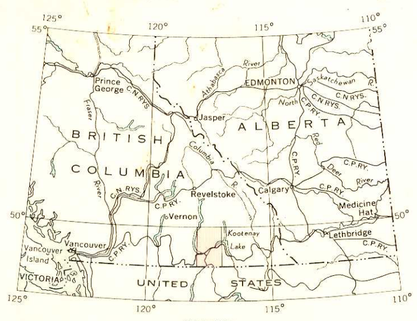
Cartography by the Geological Survey of Canada, 1960

Air photographs covering this map-area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa, Ontario.



PUBLISHED, 1960

PRINTED BY THE SURVEYS AND MAPPING BRANCH



INDEX MAP

MAP 1090A

GEOLOGY

NELSON

(West Half)

KOOTENAY AND SIMILKAMEEN DISTRICTS
BRITISH COLUMBIA

Scale: One Inch to Four Miles = 1/253,440

Miles
4 2 0 4 8 12

COPIES OF THIS MAP MAY BE OBTAINED FROM THE DIRECTOR, GEOLOGICAL SURVEY OF CANADA, OTTAWA

LEGEND

Roads, hard surface, all weather
Roads, loose surface, all weather
Roads, loose surface, dry weather
Trail and disused road
Horizontal control point
International boundary
District boundary
Park boundary
Boundary monument 183
Intermittent stream
Glacier Gl.
Contours (interval 500 feet) 2500 5000
Height in feet above mean sea-level 7878

Approximate magnetic declination, 22° 18′ East

Adjoins Map 602A "Nelson" (East Half)

inches
0 1 2
0 1 2 3 4 5
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.