

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 89.04.13

ASSESSMENT REPORT 17030

MINING DIVISION: Greenwood

PROPERTY: Black
LOCATION: LAT 49 34 00 LONG 119 05 00
UTM 11 5492318 349356
NTS 082E11E
CLAIM(S): Black, Black 2, RR 1, RR 3, RR 5, RR 7
OPERATOR(S): Carson, J. Carson, E.
AUTHOR(S): McLeod J.W.
REPORT YEAR: 1988, 23 Pages

COMMODITIES

SEARCHED FOR: Copper, Molybdenum/Molybdenite, Lead, Zinc, Tungsten, Silver, Gold

GEOLOGICAL

SUMMARY: Permian and/or Triassic Anarchist Group sedimentary and volcanic rocks are intruded by the Cretaceous Nelson and/or Valhalla plutonic rocks. There are varying degrees and types of metamorphism and textural alteration. Chalcopyrite, molybdenite, galena, sphalerite, scheelite, and silver and gold values occur locally most often with quartz.

WORK

DONE: Prospecting
PROS 500.0 ha

FILE: 082ENW

0509

FILE NO:

GEOLOGICAL AND GEOCHEMICAL

REPORT

LOG NO: 0812 RD. 2

ACTION: Date received report back from amendments.

on the

FILE NO:

BLACK CLAIM GROUP
WEST KETTLE RIVER AREA
GREENWOOD MINING DIVISION

LATITUDE 49 DEGREES 32 MINUTES N.
LONGITUDE 119 DEGREES 05 MINUTES W.
MAP REFERENCE - NTS 82E

on behalf of

EDWARD CARSON AND ASSOCIATES

FILMED

by

JAMES W. McLEOD, B.Sc.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,030

May 2, 1988
Vancouver, B.C.

MINISTRY OF ENERGY, MINES
AND PETROLIUM RESOURCES

Rec'd MAY 04 1988

SUBJECT _____

FILE _____

VANCOUVER, B.C.

TABLE OF CONTENTS

	Page
SUMMARY	1 /
INTRODUCTION	3 /
LOCATION AND ACCESS	3 /
PROPERTY AND OWNERSHIP	3 /
TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT	5 /
HISTORY AND PREVIOUS WORK	5 /
PRESENT WORK PROGRAM	7 /
REGIONAL GEOLOGY	7 /
PROPERTY GEOLOGY	8 /
CONCLUSIONS AND RECOMMENDATIONS	8 /
COST ESTIMATE	9 /
STATEMENT OF COSTS	11 /
REFERENCES	12 /
CERTIFICATE	13 /
APPENDIX I - ANALYSES	14 /

FIGURES

FIGURE 1 - LOCATION PLAN	2 /
FIGURE 2 - CLAIM AND SHOWING PLAN	4 /
FIGURE 3 - GEOLOGY PLAN	6 /
FIGURE 3A - <i>SAMPLE PLAN</i>	<i>6A</i>

SUMMARY

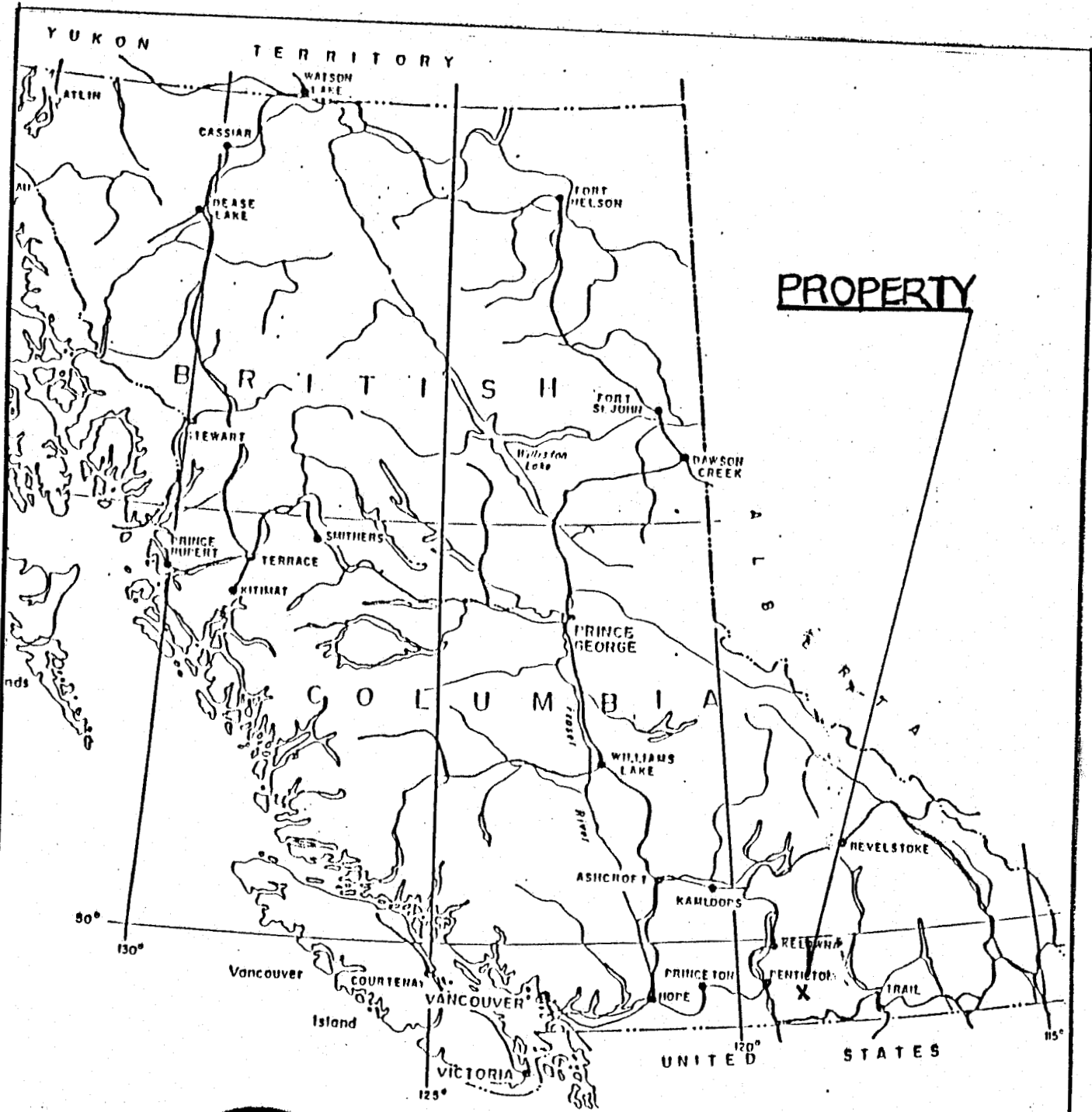
A number of positive features have been revealed about the Black mineral claim group by initial reconnaissance work performed by the writer during 1987.

These positive features include a good geological setting, apparently good structure as indicated by regional geological mapping and reconnaissance work on the property by the writer, moderate rock alteration and strong indications of base metal mineralization with frequent anomalous precious metal values.

The metal values obtained to date are found to occur up to the following amounts:

Molybdenum - 1.19%, copper - 1.72%, silver - 1.54 oz/T and gold - 0.02 oz/T.

A two phase exploration program is recommended for the property. Phase I of the program is expected to take approximately one month to complete at an estimated cost of \$50,000.00.



EDWARD CARSON & ASSOC.

LOCATION PLAN
 BLACK CLAIM GROUP
 WEST KETTLE-BEAVERDELL AREA
 GREENWOOD, M.D. B.C.
 FIGURE 1

Scale: 1:900,000	N.T.S. 82E/11	DRAWN BY: J.W.M.	DATE: 04/89
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INTRODUCTION

During the period June 18 - October 31, 1987 the writer performed and supervised fieldwork on the Black claim group. The work involved geological mapping, prospecting and rock geochemistry.

The writer staked four single-line, two post claims (Rambler 1, 3, 5 and 7) at the request of the owner of the Black mineral claims, Edward Carson and Associates of Grand Forks, British Columbia who also requested that this report be written.

LOCATION AND ACCESS

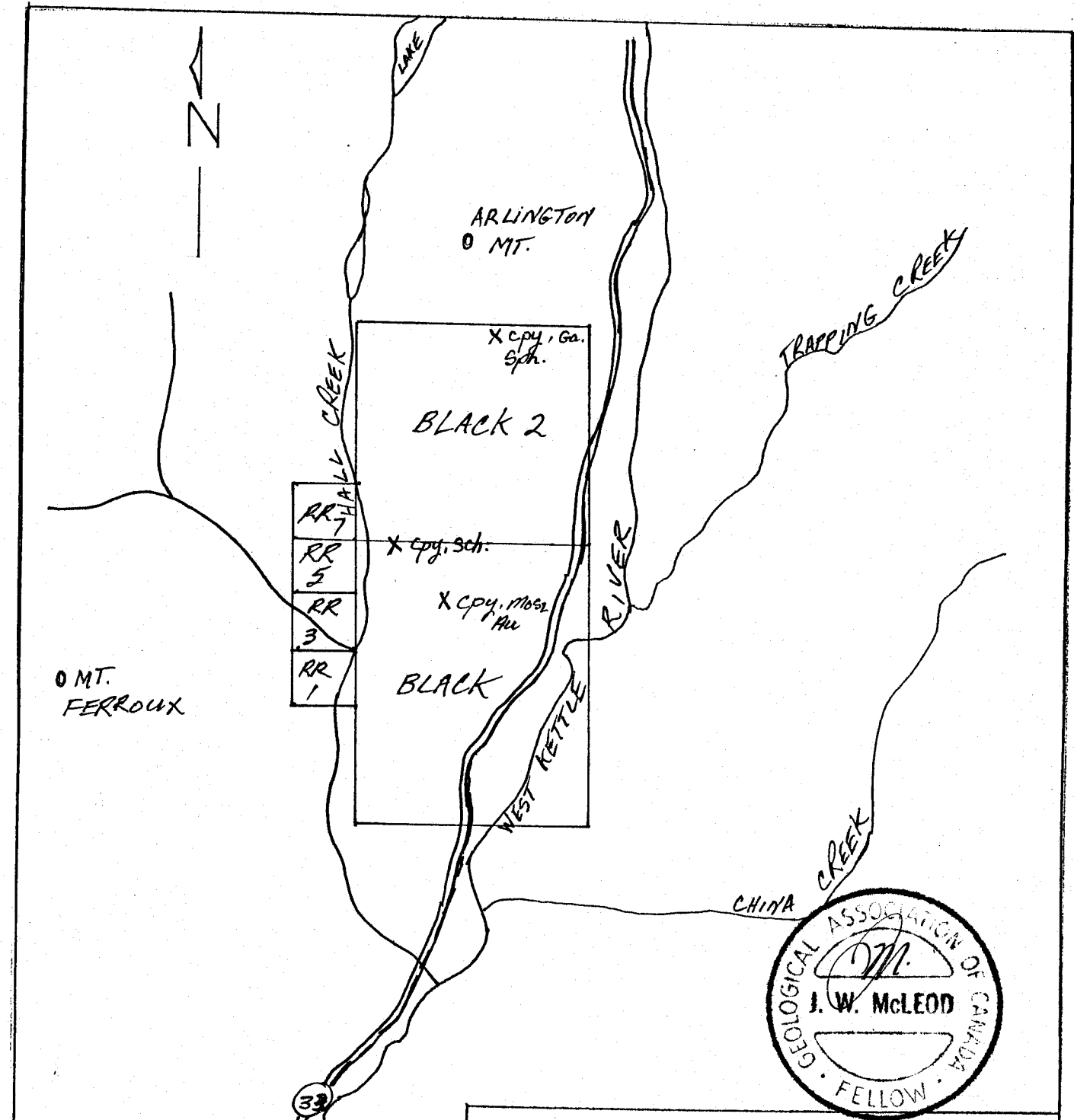
The Black claim group is situated 13 kilometres (8 miles) north of the Town of Beaverdell, British Columbia about Hall Creek and lying mainly to the west of the West Kettle River in the Greenwood Mining Division. The mineral claims may be located on NTS map sheet 82 E/11 (Wilkinson Creek) at latitude 49 degrees 32 minutes north and longitude 119 degrees 05 minutes west.

Access to the property is gained by travelling north for approximately 16 kilometers (10 miles) from Beaverdell, B.C. on Highway #33.

PROPERTY AND OWNERSHIP

The Black claim group consists of two contiguous claims of 16 units and 20 units and 4 single-line, 2 post claims which are also contiguous for a total of 40 units. Note: the Black #2 claim may actually be approximately 8-10 units because of an overlap with a claim to the north. The total areal extent of the present property is approximately 900 hectares (2200 acres). The mineral claim data is listed as follows:

<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Anniversary Date</u>
Black	4888	16	April 13
Black #2	4938	20	June 3
RR 1	5013	1	August 31
RR 3	5014	1	August 31
RR 5	5015	1	August 31
RR 7	5016	1	August 31



LEGEND

X - Showing

□ - claim boundary

⊕ ————— Highway

cpy - chalcopyrite. Au - gold
 sch - scheelite. sph - sphalerite
 Ga - galena. Mosz - molybdenite

EDWARD CARSON & ASSOC.

CLAIM AND SHOWING PLAN
 BLACK CLAIM GROUP
 WEST KETTLE-BEAVERDELL AREA
 GREENWOOD, M.D. B.C.

0 500 1KM 1500 2KM
 METRES

FIGURE: 2	N.T.S. 82E/11	DRAWN BY: J.W.M.	DATE: 04/88
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The Black mineral claim group is owned 100% by Edward Carson and Associates of P.O. Box 862, Grand Forks, B.C., V0H 1H0.

TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT

The property is situated in rounded mountainous terrain of the Okanagan Highland and is found straddling southerly flowing Hall Creek on the south-end and eastern flanks of Mt. Arlington and Mt. Ferroux, respectively. The property ranges in elevation from 900 metres (3000 feet) to 1200 metres (4000 feet) mean sea level.

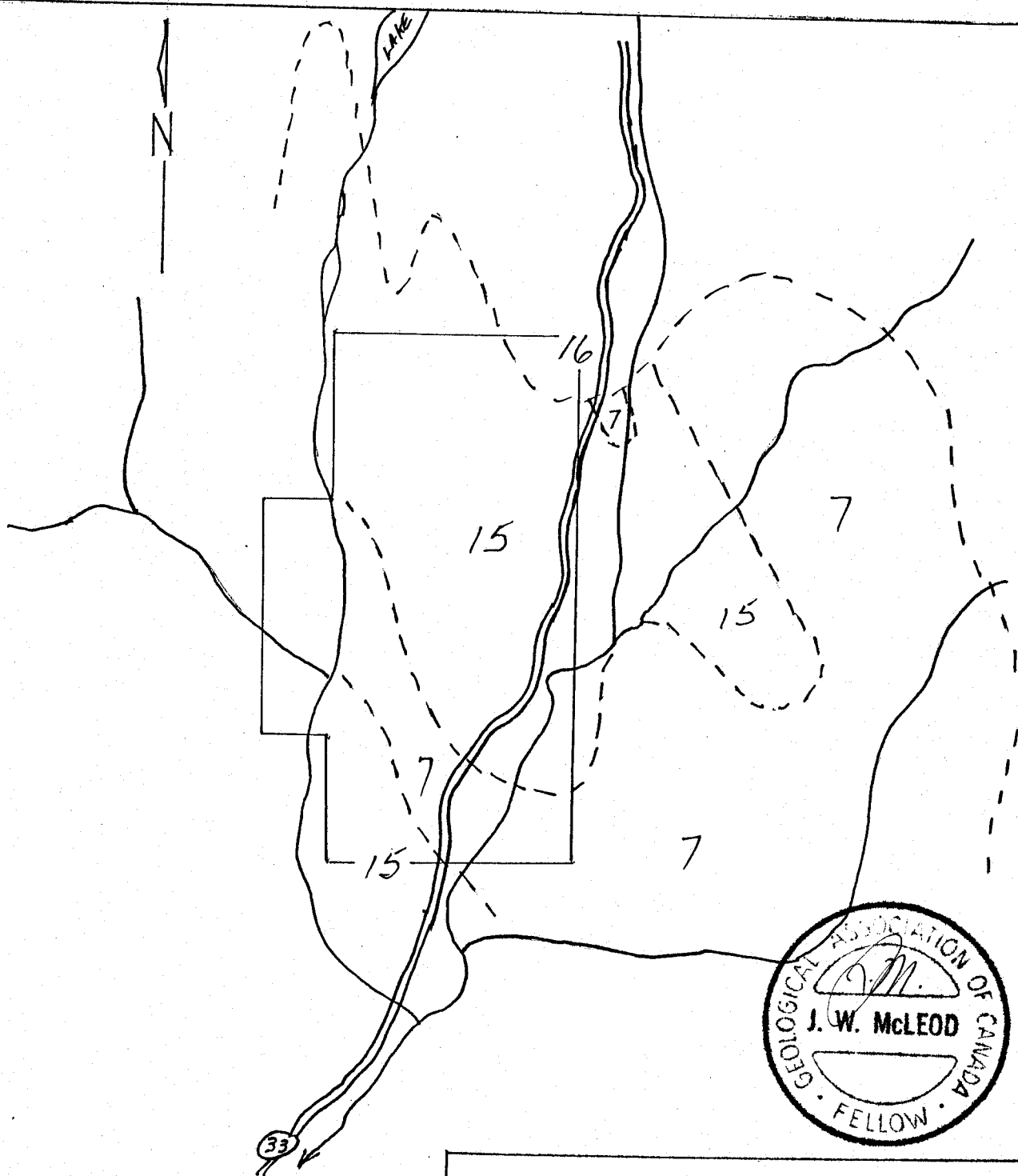
The area in which the property lies may be considered to be in a transitional area, mainly because of its' elevation, between the dry interior and sub-alpine biotic zones. The areas of the property that have not undergone commercial logging are conifer covered mainly by Douglas fir, Engelmann spruce, ponderosa pine and lodgepole pine. On the steeper hillsides alder is abundant while aspen occurs in the area as does cottonwood in the damper areas.

The general area experiences warm to hot summers and moderately cold winters of short duration. Annual precipitation ranges between 40 cm. and 100 cm. (15"-40") of which a maximum of 12 cm. (5") occurs as snow equivalent.

HISTORY AND PREVIOUS WORK

The regional area received considerable attention with the early (mid-1850's) discovery of placer gold at Rock Creek and again after establishment of the International Boundary and the subsequent discovery and development of the Fairview Mines and Camp McKinney. The West Kettle river area was later in coming to the prospectors attention because of a general lack of access. In the early 1900's the West Kettle river gained prominence with the discovery of the high grade "ruby" silver prospects which eventually became the Highland-Bell mine at what is now Beaverdell, B.C. and the mine at Carmi, B.C. approximately 8 km. (5 miles) to the north-northwest of Beaverdell, B.C. Intermittant attention has been paid to the general area with the increased interest in such mineral occurrences as the porphyry copper-molybdenum deposits, Tertiary uranium prospects and various precious metal showings. The general area is of such geological character as to encourage exploration for these and possibly other economic mineral situations.

The property area has undergone some prospecting prior to 1915 as is evidenced by a report of prospect pits on the western side of the broad top of Arlington mountain in a garnet-epidote (skarnified) limestone, which was observed to contain some scheelite. Several other areas which have undergone hand trenching were observed by the writer, but when the work was done has not been determined.



LEGEND

- 7 - Permian &/or Triassic ANARCHIST GROUP.
- 15 - NELSON PLUTONIC ROCKS
- 16 - VALHALLA PLUTONIC ROCKS
- [] - CLAIM OUTLINE

EDWARD CARSON & ASSOC.

GEOLOGY PLAN
 BLACK CLAIM GROUP
 WEST KETTLE-BEAVERCREEK AREA
 GREENWOOD, M.D.B.C.

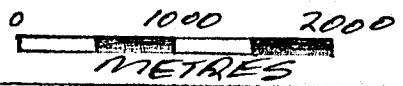
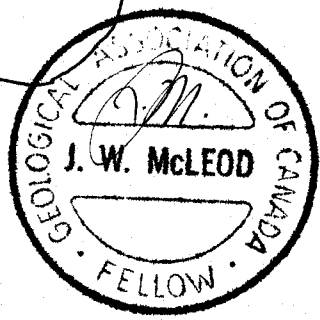
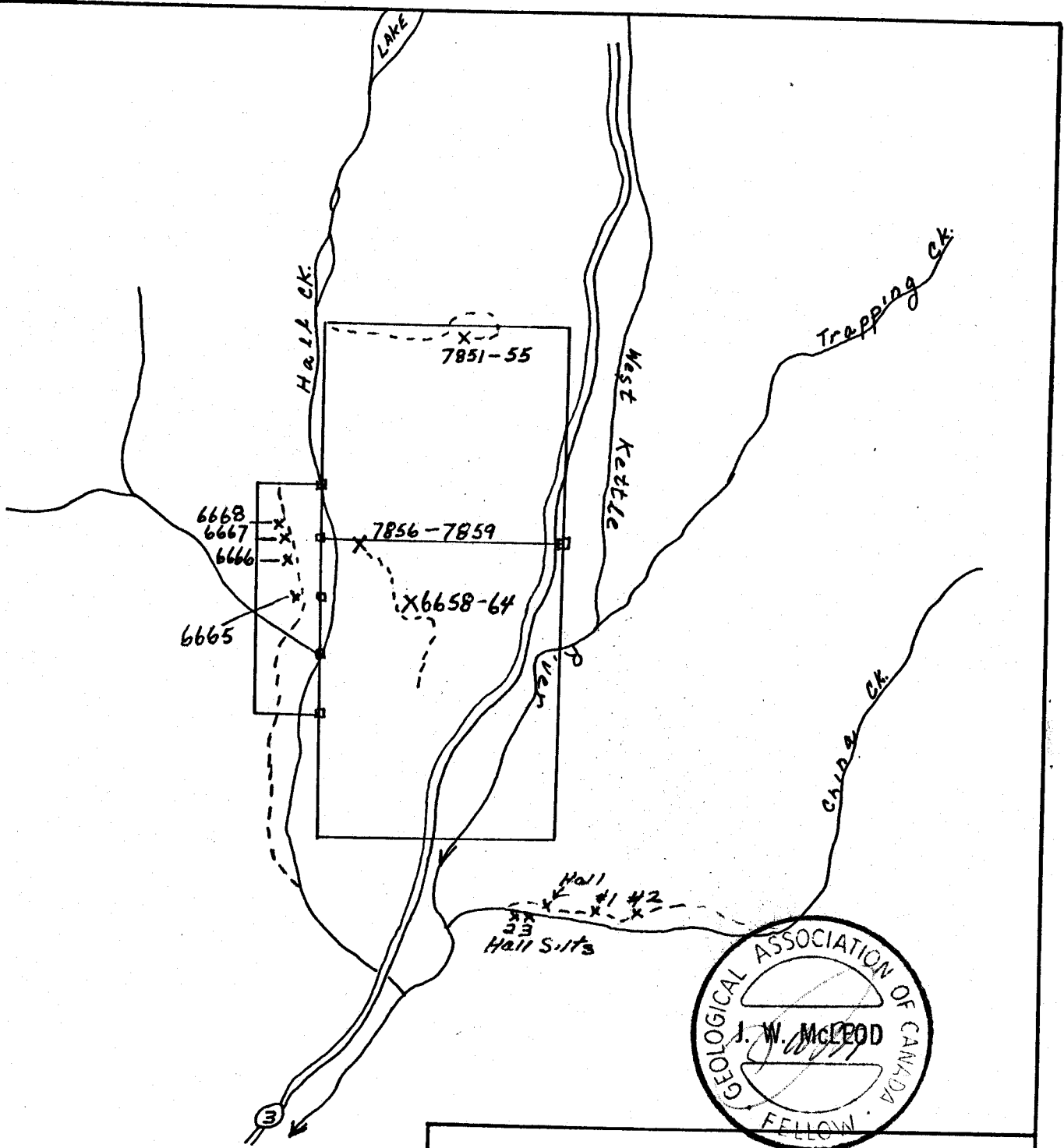


FIGURE:	N.T.S.	DRAWN BY:	DATE:
3	82E/11	J.W.M.	04/88





LEGEND

- ⊘ - Provincial Highway #
- - Claim Past
- x - Sample Location & No.
- ▭ - Claim Outline
- - - - Traverse Route

EDWARD CARSON & ASSOC.

SAMPLE PLAN
and
PROSPECTING TRAVERSES
WEST KETTLE-BEAVERDELL AREA
GREENWOOD, M. D. B. C.

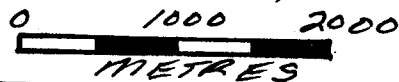


FIGURE 3A	N.T.S. 82E/11	Drawn by: J.W.M.	Date: 08/88
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PRESENT WORK PROGRAM

During the period June 18 - October 31, 1987 the writer made a number of trips to the property to carry out examinations, to stake mineral claims and to supervise prospecting work being undertaken on portions of the claims

The present work program involved some initial reconnaissance geological mapping, prospecting, examination of some mineral showings, rock sampling and the examination and reconnaissance silt sampling (2) of a portion of China Creek near the southeast corner of the Black claim (see Figures 2&3).

A total of 23 rock chip and 2 silt samples were collected by the writer. The samples were delivered to the Acme Analytical Laboratories Ltd., 852 E. Hastings Street, Vancouver, British Columbia. 21 of the samples underwent 28 element analyses by the induction coupled plasma (ICP) method and all 25 of the samples underwent assaying for gold and silver and two of the samples were assayed for copper and molybdenum while another 2 samples were assayed for platinum and palladium (see Appendix for results).

REGIONAL GEOLOGY

The geology of the general area has been described by Members of the Geological Survey of Canada; Cairnes, C.E. 1940 - Map 538-A and revised by Little, H.W. 1957 - Map 15-1961. The general area about the property is seen to be underlain from oldest to youngest by the Anarchist Group of intercalated sediments and volcanics which are thought to be Permian - Triassic in age. These older rocks appear to have been intruded by Nelson Plutonic rocks of Jurassic to early Cretaceous age. Intrusive rocks of what are thought to be the younger Valhalla Plutonic rocks of Cretaceous age are evident about the older intrusives.

Outside the general property area and to the west approximately 25 kilometres (15 miles) are what are considered the oldest rocks of the map area, namely the Monashee Group of metamorphic rocks which are composed of layered gneiss (paragneiss), minor schist, amphibolite, quartzite, marble and pegmatite. These rocks are possibly of Precambrian age.

The occurrence of rocks of such diverse ages abutting one another has been explained as being due to major faulting and a major disruption which was thought to be active through the Middle Jurassic termed the Monashee Decollement. The decollement is evidenced by a warped mylonitic zone. The underlying rocks of the general area from the oldest to the late Mesozoic form a part of the larger package termed the Shuswap Metamorphic Complex.

The shear diversity of this geological setting precludes ruling out practically any type of mineral occurrence and with the subsequent (Tertiary) orogenic activity precious metal exploration could be of high priority in the area.

PROPERTY GEOLOGY

Initial reconnaissance mapping and prospecting on the Black claims reveals that the claim area is underlain by medium to coarse grained intrusive rocks with considerable variation in composition. Some of these rocks have been metamorphosed as is exhibited by a foliation in many of them. The degree and type of metamorphism varies throughout the property, for example in the north-central area of the Black #2 mineral claim relatively unfoliated volcanic and basic intrusive rocks are observed while on the west-central boundary area of the Black and Black #2 claims the rocks, quartz mica schist and/or gneiss seem more a product of a regional-type? of metamorphism. In the north-central area of the Black claim the coarse grained granitic intrusive rock portrays an open or unwelded type of gneissosity which appears to have been a product of a more dynamic metamorphic effect. Approximately 100 metres to the east of this mineralized gneissic exposure there appears to be a N160 degree trending fault scarp? In the southwest corner of the Black #2 or the northwest corner area of the Black mineral claims there are several occurrences of a reddish-light green-white (garnet-epidote-quartz) skarn and some relatively unaltered limestone which appears to have undergone some degree of contact metamorphism (see Figure 3).

Mineralization observed by the writer includes in order of decreasing abundance pyrite, chalcopyrite, molybdenite, galena, sphalerite and scheelite (see Figure 2).

CONCLUSIONS AND RECOMMENDATIONS

The Black mineral claim group covers several areas of known base metal mineralization which are found in places to contain anomalous silver and gold values (see Appendix). The property may contain mineral occurrences of economic significance. Values up to the following listed amounts have been encountered by the writer on the property:

Molybdenum - 1.19%, copper - 1.72%, silver - 1.54 oz/T, gold - 0.02 oz/T.

There are significant initial indications of mineralization in an excellent geological setting of sufficient size to require that further reconnaissance and detailed exploration work be undertaken on the property.

The writer recommends that a two phase program of geological mapping, grid controlled geochemical soil sampling, magnetometer and VLF-EM surveys be undertaken over the property at a line-spacing of 75 metres with a 50 metre sample interval. A second phase program to test anomalous zones outlined during the first phase of the program should undergo hand or bulldozer trenching and subsequent drilling which would be contingent on the results of the first phase.

COST ESTIMATE

Phase I

Geological mapping and supervision for one month	\$ 7,500.00
Line installation	7,250.00
Geochemical soil survey	6,000.00
Analyses - 1500 samples @ \$7/sample	10,500.00
Magnetometer survey	7,000.00
VLF-EM survey	5,000.00
Room and board for 150 mandays @ \$60/d.	9,000.00
Transportation	4,000.00
Equipment and supplies	750.00
Maps and reports	3,000.00
Sub-total	\$ 60,000.00
(carried forward)	

Phase II

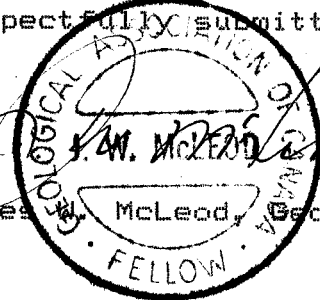
30 hrs. D8 bulldozer trenching and drill site preparation @\$120/hr.	3,600.00
1000 metres diamond core drilling @ \$70/m. all inclusive	70,000.00
Analyses of 500 samples @ \$10/sa.	5,000.00
Supervision and logging core	5,000.00

Room and board	4,000.00
Equipment and supplies	2,400.00
Transportation	2,000.00
Reports and maps	2,000.00
Licences and fees	10,000.00
Contingency	11,000.00

Sub-total \$115,000.00

TOTAL \$175,000.00

Respectfully submitted,


James W. McLeod, Geologist

STATEMENT OF COSTS

Field Personnel:

J.W. McLeod, Geologist 8 days @ \$200/day	\$ 1,600.00
J. Carson and E. Carson 4 days @ \$150/day	600.00
Analyses	412.75
Camp and board - 12 days @ \$60/d.	720.00
Transportation	340.00
Equipment and supplies	85.00
License and fees	225.00
Report and maps	217.25
TOTAL	\$4200.00

REFERENCES

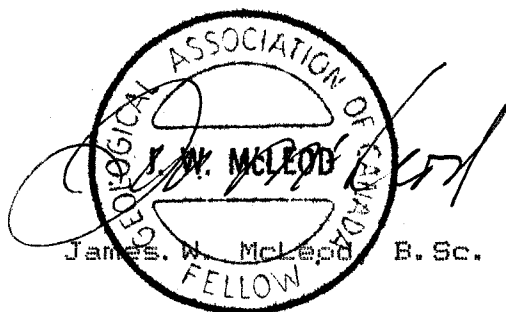
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- Little, H.W. 1957. Kettle River, (east half), Similkameen, Kootenay and Osoyoos districts, British Columbia. Geological Survey of Canada. Map 6-1957, Scale 1 in. = 4 mi.
- Little, H.W. 1960. Nelson Map-Area, west half, British Columbia. Geological Survey of Canada. Memoir 308.
- Little, H.W. 1961. Kettle River (west half), British Columbia. Geological Survey of Canada. Map 15-1961, Scale 1 in. = 4 mi.
- Okulitch, A.V. 1984. The role of the Shuswap Metamorphic Complex in Cordilleran tectonism: a review. Canadian Journal of Earth Science, volume 21. 1984.
- Reinecke, L. 1915. Ore Deposits of the Beaverdell Map-Area. Geological Survey of Canada. Memoir 79.
- Wheeler, J.D. 1970. Structure of the Southern Canadian Cordillera. The Geological Association of Canada, Special Paper Number 6.

CERTIFICATE

I, JAMES W. McLEOD, of the Village of Ladner,
Province of British Columbia, hereby certify as follows:

- 1) I am a Consulting Geologist with an office at
5303 River Road, Delta, B.C., V4K 1S8.
- 2) I am a Fellow of the Geological Association of
Canada.
- 3) I graduated with a degree of Bachelor of Science,
Major Geology, from the University of British
Columbia in 1969.
- 4) I have practised my profession since 1969.
- 5) I do not own any direct or indirect interest in
the Black mineral claim group nor do I expect to
receive any as a result of writing this report.
- 6) The above report is based on personal field
experience in the general area, on researching
available data and on personal discussions with
other parties familiar with the property.

DATED at Ladner, Province of British Columbia,
this 2nd day of May, 1988.



GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK/CORE AUX ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JUNE 24 1987 DATE REPORT MAILED: June 27/87 ASSAYER: D. Toyer DEAN TOYE, CERTIFIED B.C. ASSAYER

T & S ENTERPRISES File # 87-1969

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AUX
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
Gm. vol. -7851	26	10779	1082	1046	65.4	28	23	2899	7.50	9	5	ND	13	53	3	6	78	156	2.81	.014	3	10	2.46	10	.01	2	2.53	.01	.02	1	4
Skunkowitz -7852	6	9	7	76	.2	64	27	627	6.70	8	5	ND	1	82	1	4	2	279	2.20	.034	2	1	3.40	347	.38	2	2.89	.26	1.44	1	1
CPY 8 PY -7853	6	16129	804	222	85.3	17	70	2007	6.29	9	5	ND	2	89	1	4	288	102	4.33	.040	2	36	1.53	7	.03	2	1.57	.01	.02	1	12
q.ty vein -7854	17	37	5	64	.1	7	4	323	1.18	2	5	ND	2	13	1	2	2	27	.22	.025	3	10	.16	17	.01	2	.24	.02	.08	1	1
Skunkowitz -7855	4	589	8	73	1.1	8	21	940	5.56	6	5	ND	1	175	1	5	2	199	4.28	.389	6	10	2.01	203	.23	2	2.28	.43	.47	1	1
Skarn -7856	78	19	2	15	.1	2	3	1462	3.27	2	5	ND	1	9	1	2	2	52	7.29	.009	2	3	.11	1	.02	2	1.01	.06	.01	1201	1
Skarn q.ty -7857	17	20	3	11	.2	3	3	1829	4.17	5	5	ND	1	19	1	2	2	72	11.34	.007	2	4	.09	8	.05	2	.87	.16	.01	6	1
Skarn pit -7858	4	1091	2	28	2.4	12	14	311	1.10	3	5	ND	1	16	2	2	2	9	1.17	.152	2	5	.19	18	.02	2	.18	.01	.01	12	1
F.g. seq. sch. -7859	1	44	2	16	.1	58	10	167	1.18	4	6	ND	1	31	1	2	2	18	1.08	.003	2	160	1.65	33	.03	2	1.96	.04	.11	1	1
7860	1	14	4	22	.2	6	1	72	.44	2	5	ND	1	2173	1	2	4	14	34.24	.040	4	12	.24	20	.02	2	.24	.01	.07	4	1
7861	4	39	8	32	.8	17	17	228	4.39	8	5	ND	1	54	1	2	2	47	1.86	.045	3	15	.54	46	.17	4	1.36	.18	.06	2	10
7862	15	1092	18	97	6.0	15	17	2146	20.04	180	5	ND	2	124	1	6	2	58	10.94	.089	8	17	.58	15	.04	2	.84	.16	.01	3	41
7863	10	5521	7	361	14.3	14	12	4145	7.51	70	5	ND	1	318	3	4	2	61	22.24	.066	5	19	.55	94	.04	2	1.03	.23	.01	1	16
7864	4	97	29	33	.9	4	3	332	5.32	21	5	ND	1	199	1	3	2	42	1.54	.058	4	6	.36	22	.18	6	1.19	.01	.18	2	7
7865	7	4626	9	174	8.1	28	13	1134	14.71	35	6	ND	1	36	1	4	2	45	12.46	.039	2	5	.25	4	.06	2	.84	.19	.01	1	119
7866	7	449	8	92	1.4	22	14	1375	5.34	36	5	ND	1	113	1	8	2	41	17.78	.047	2	13	.34	4	.03	2	.91	.24	.01	2	44
7867	3	26	5	14	.2	5	3	685	2.72	21	8	ND	1	281	1	4	2	63	29.78	.049	2	7	.52	17	.05	2	.78	.09	.03	5	430
7868	15	627	17	30	2.5	16	126	492	21.91	51	5	ND	1	38	1	9	5	75	8.52	.062	2	18	.32	7	.04	2	.88	.11	.03	13	285
7869	9	307	6	63	1.2	26	66	914	12.14	37	7	ND	1	89	1	6	2	15	19.57	.009	2	3	.35	7	.01	2	.88	.24	.03	1	48
7870	7	105	4	62	.3	9	13	942	4.21	27	5	ND	2	97	1	4	2	128	10.03	.098	9	8	1.85	70	.10	2	2.01	.18	.21	1	3
7871	9	19557	11	2677	8.9	15	24	628	5.49	27	5	ND	2	89	11	6	6	141	1.18	.083	7	22	1.56	98	.23	2	2.38	.15	.06	1	59
7872	33	12464	308	983	445.0	15	32	103	11.86	157	5	ND	1	25	7	5	1706	16	.25	.017	2	5	.21	127	.01	3	.58	.01	.03	1	1780
7873	4	93	2	66	.1	282	31	1719	4.41	4	5	ND	1	94	1	2	2	114	11.80	.012	2	353	5.54	27	.01	2	3.41	.18	.01	1	1
7874	3	45	3	58	.2	5	6	941	2.82	2	5	ND	2	37	1	2	2	36	2.45	.020	6	9	.66	871	.01	2	.86	.01	.07	1	1
11051 Core	5	727	9	52	2.5	29	129	943	17.27	101	6	ND	1	90	1	8	11	35	12.31	.041	2	8	.35	3	.03	3	.72	.20	.01	5	690
11052	3	862	6	42	2.3	28	7	692	11.29	28	5	ND	1	85	1	4	7	63	9.75	.045	2	24	.32	9	.05	2	.68	.16	.02	2	82
11053	10	3635	11	61	3.6	235	168	547	21.35	35	5	ND	2	49	1	4	4	14	7.02	.037	2	3	.10	2	.01	2	.35	.07	.01	1	154
11054	4	505	4	142	1.5	39	12	1574	9.80	28	5	ND	1	133	1	10	2	54	10.46	.063	2	39	.70	5	.07	2	1.42	.18	.01	2	21
11055	6	38	9	65	.2	3	3	599	2.77	7	5	ND	16	56	1	2	2	12	1.37	.052	74	1	.30	27	.02	2	.37	.03	.08	1	1
11056	4	47	4	65	.2	91	15	437	3.76	12	5	ND	6	62	1	3	2	95	1.26	.064	13	125	2.10	180	.40	2	2.05	.14	.75	1	3
11057	3	32	8	73	.4	24	9	611	3.61	6	5	ND	2	78	1	2	2	71	2.21	.067	6	40	1.36	44	.03	3	2.10	.12	.22	1	7
11058	4	4462	15	119	4.8	29	166	473	26.70	32	6	ND	3	29	2	2	2	13	2.29	.069	9	4	.17	3	.02	2	.34	.01	.01	1	143
11059	3	73	7	42	.5	27	3	695	2.26	15	5	ND	2	47	1	2	2	21	9.95	.050	5	57	.09	3	.10	15	.99	.16	.01	2	11
11060	5	48	5	53	.2	77	9	339	3.33	6	5	ND	7	62	1	2	2	91	.74	.060	9	130	2.16	163	.40	3	1.75	.09	.80	1	1
11061	6	34	11	68	.3	42	9	1440	3.54	13	5	ND	11	236	1	2	2	46	4.63	.046	33	53	1.60	24	.01	2	2.03	.02	.17	1	1
11062	4	11	34	88	.1	1	1	539	2.53	4	5	ND	25	23	1	2	2	9	.85	.043	81	3	.41	18	.08	3	.94	.07	.20	1	1
11063	7	64	2	47	.2	111	15	276	2.99	13	5	ND	4	37	1	3	2	75	1.01	.055	8	146	2.18	76	.33	2	1.60	.06	.75	1	1
STD C/AU-R	21	56	35	129	6.8	65	26	959	3.84	42	21	6	33	44	16	14	18	61	.37	.094	34	57	.86	174	.08	35	1.72	.06	.12	14	505

ASSAY REQUIRED FOR Ag > 35 PPM
 Cu > 10,000 PPM

APPENDIX

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 4 1987
DATE REPORT MAILED: *July 9/87...*

GEOCHEMICAL ICP-MS ANALYSIS

10 GRAM SAMPLE FIRE ASSAY AND ANALYSIS BY ICP MASS SPECTROMETER.
- SAMPLE TYPE: *Pu*

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

T & S ENTERPRISES File # 87-1969

SAMPLE#	Pt	Pd
	PPB	PPB
7852	2	4
7853	4	16
7867	2	5
7872	2	6
11051	4	6
DET. LIMIT	2	2

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Rock Chips AU# ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 19 1987

DATE REPORT MAILED:

July 25/87

ASSAYER:

D. J. Jeyaraj

DEAN TOYE, CERTIFIED B.C. ASSAYER

JAMES W. MCLEOD PROJECT-BLACK File # 87-2537

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU#
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
<i>Silic gneiss - 6658</i>	9070	4196	2	130	17.0	5	17	134	2.41	8	62	ND	1	8	6	11	13	17	.13	.022	2	4	.36	37	.05	2	.52	.03	.11	1	58
<i>qtz v. e py. - 6659</i>	4394	5659	22	30	23.8	23	124	35	9.20	2	5	ND	2	5	1	10	28	5	.03	.005	2	1	.02	7	.01	9	.03	.02	.03	3	285
<i>10" q.v. - 6660</i>	12	1059	3	56	22.8	7	5	165	2.13	5	6	ND	4	17	1	3	2	20	.20	.028	2	12	.48	51	.08	7	.61	.02	.18	1	85
<i>q.v. igneiss - 6661</i>	5504	17450	2	182	59.8	9	20	176	4.26	8	37	ND	3	19	7	6	41	24	.56	.063	6	36	.49	25	.11	5	.61	.02	.16	1	560
<i>qv. + k-spar in gneiss - 6662</i>	5	3059	10	122	4.1	12	12	690	3.82	4	5	ND	2	22	3	2	2	94	.75	.072	4	27	1.71	143	.23	5	1.81	.04	.66	1	22
STD C	18	58	41	134	7.4	64	27	900	3.90	41	19	7	31	45	17	17	21	54	.48	.086	36	55	.88	174	.08	36	1.70	.05	.12	13	-

ASSAY REQUIRED FOR Mo > 1000 ppm

ACME ANALYTICAL LABORATORIES LTD.
52 E. HASTINGS, VANCOUVER B.C.
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED AUGUST 23 1987

DATE REPORTS MAILED *Sept 1/87*

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK
AG** & AU** BY FIRE ASSAY

ASSAYER *D. Toye* DEAN TOYE , CERTIFIED B.C. ASSAYER

JAMES W. McLEOD PROJECT BLACK FILE# 87-3535A

PAGE# 1

SAMPLE	Mo %	Cu %	Ag** oz/t	Au** oz/t
6663	1.190	1.72	1.54	.020
6664	.003	.04	.03	.001

*Composite qtz sa.
qtz & chl. py*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Rock Chips AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 23 1987

DATE REPORT MAILED: *Sept 1/87*

ASSAYER: *A. Jeyes* DEAN TOYE, CERTIFIED B.C. ASSAYER

JAMES W. MCLEOD PROJECT-BLACK File # 87-3535

SAMPLE#	MG	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU#
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
6665	6	674	14	139	2.3	4	3	304	4.40	5	5	ND	3	13	1	2	21	22	.16	.025	7	1	.46	226	.07	2	1.03	.08	.22	1	6
6666	12	1557	11	55	3.7	5	7	86	20.31	17	5	ND	3	43	1	2	12	41	.12	.037	4	11	.22	91	.06	2	.86	.06	.35	1	1
6667	2	629	6	47	1.0	29	30	610	9.42	5	5	ND	2	27	1	2	2	64	1.59	.044	2	28	.98	52	.21	2	1.59	.03	.06	796	1
6668	2	114	4	12	.4	2	1	65	1.87	2	5	ND	1	8	1	2	25	7	.05	.004	2	1	.04	83	.02	2	.11	.01	.06	9	1
STD C	18	58	41	132	7.1	68	27	1030	3.98	39	16	8	37	49	18	17	20	56	.48	.088	37	58	.89	174	.08	37	1.84	.08	.14	14	-

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SILT AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 17 1987 DATE REPORT MAILED: *Dec 3/87* ASSAYER.. *R. J. Deane* DEAN TOYE, CERTIFIED B.C. ASSAYER

JAMES W. MCLEOD PROJECT-HALL File # 87-5682

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE I	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA I	P I	LA PPM	CR PPM	MG I	BA PPM	TI I	B PPM	AL I	NA I	K I	W PPM	AU# PPB
X-HALL #2 SILT	1	26	4	46	.1	11	4	440	1.79	34	5	ND	3	53	1	2	2	31	.40	.046	8	12	.46	74	.05	3	.84	.03	.15	1	17
X-HALL #3 SILT	1	27	4	39	.1	9	5	375	1.82	32	5	ND	3	53	1	2	2	32	.41	.040	9	12	.47	59	.05	4	.83	.03	.12	1	22

GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Rock Chips AG** AU** PT** PD** BY FIRE ASSAY.

DATE RECEIVED: NOV 17 1987 DATE REPORT MAILED: *Dec 4/87* ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

JAMES W. MCLEOD PROJECT-HALL File # 87-5682A

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AG**	AU**	PT**	PD**
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	OZ/T	OZ/T	OZ/T	OZ/T
X-HALL	1	80	11	59	.2	51	35	653	5.13	2	5	ND	1	113	1	2	2	159	2.42	.011	2	46	2.71	23	.10	5	3.48	.15	.04	1	.01	.001	.001	.001
X-HALL #1	1	43	16	50	.4	3	6	310	2.30	22	5	ND	2	321	1	5	2	37	2.05	.060	5	4	.36	57	.09	2	3.33	.26	.25	1	.01	.001	-	-
X-HALL #2	3	331	7	26	.4	3	11	156	3.22	2	5	ND	2	293	1	2	2	33	1.83	.104	8	1	.30	48	.08	3	2.65	.44	.11	1	.02	.001	-	-