

LOG NO: 08-23 RD.  
ACTION:  
FILE NO:

*Report on*  
**ROCK SAMPLING  
&  
RECONNAISSANCE  
MAGNETOMETER  
SURVEY**

*on a portion  
of the*

**SHAMROCK  
CLAIM GROUP**

**NEAR ERIE CREEK**

**NELSON MINING DIVISION  
NTS MAP 82F/3W  
LATITUDE: 4911.5  
LONGITUDE: 11721.0  
OWNERS/OPERATORS:  
R. BOURDON/C. PITTMAN**

BRANCH  
REPORT  
GEOLOGICAL  
ASSESSMENT

20,208

**MAY 1990**

**PAID  
GOVERNMENT AGENT**

**AUG 21 1990**

**NELSON**

TRANS. #

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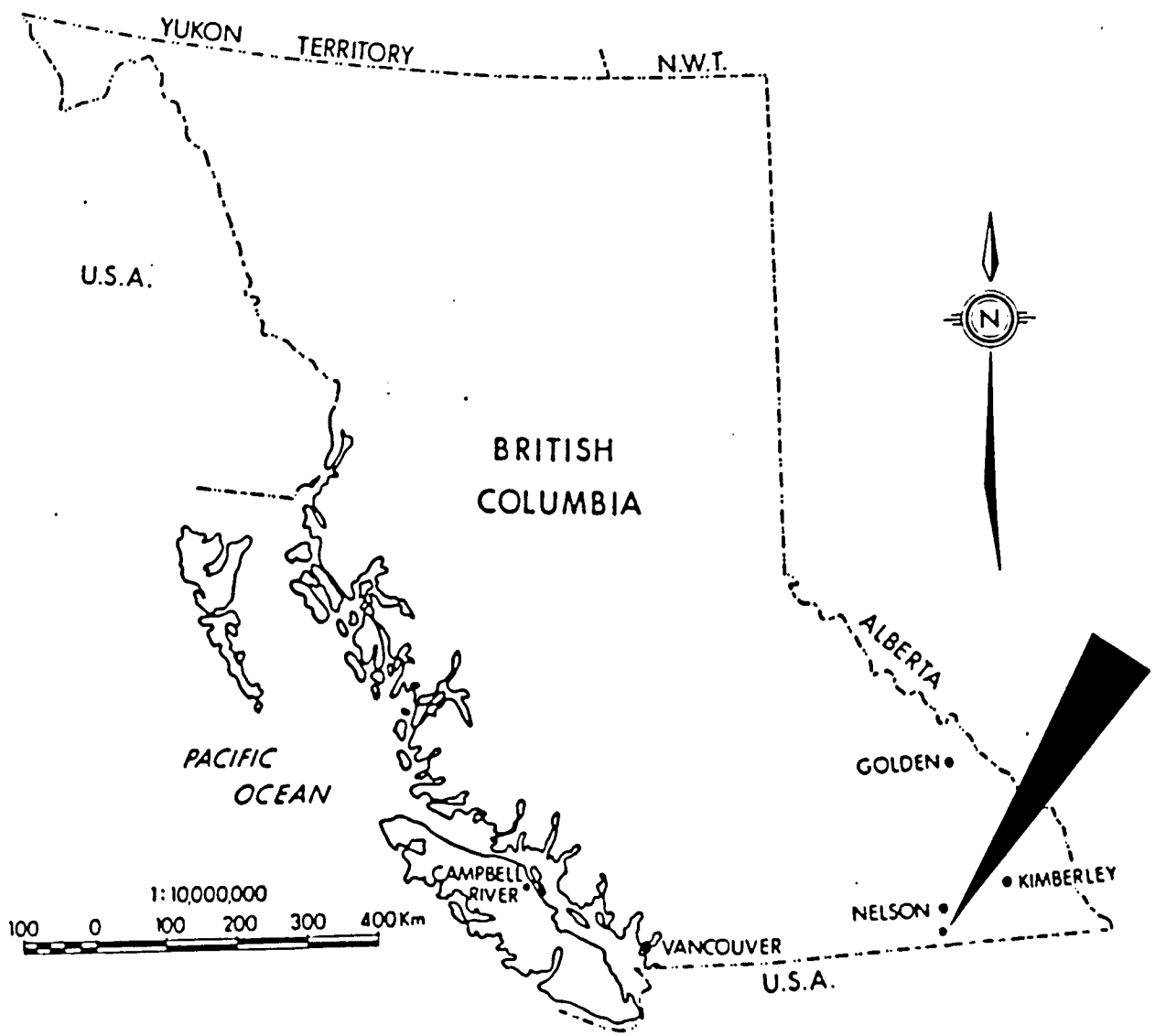
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## APPENDICES

- I. REFERENCES
- II GEOCHEM ICP ANALYSES
- III PROSPECTOR QUALIFICATIONS
- IV STATEMENT OF COSTS

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FIGURE 1



**ERIE CLAIM GROUP**

PROPERTY INDEX MAP

APRIL 1990

## 1.0 INTRODUCTION:

This report has been prepared for the purpose of filing for assessment work credit and fulfilling the requirements of the Mineral Act and Regulations.

Field work on the Shamrock Claim Group was carried out on June 11, 18, & 25, 1989, April 8, 15, & 29, 1990 and May 21, 1990. Work consisted of prospecting, mapping, sampling of showings and outcrops, establishing three short survey lines and carrying out a reconnaissance magnetometer survey.

## 2.0 LOCATION AND ACCESS:

The **SHAMROCK CLAIM GROUP** is situated in the **Nelson Mining Division** on the North side of Highway 3 approximately 5 kilometers West of Salmo. Good access is provided by both Highway 3 and old logging roads. (See Fig.7).

## 3.0 GENERAL SETTING:

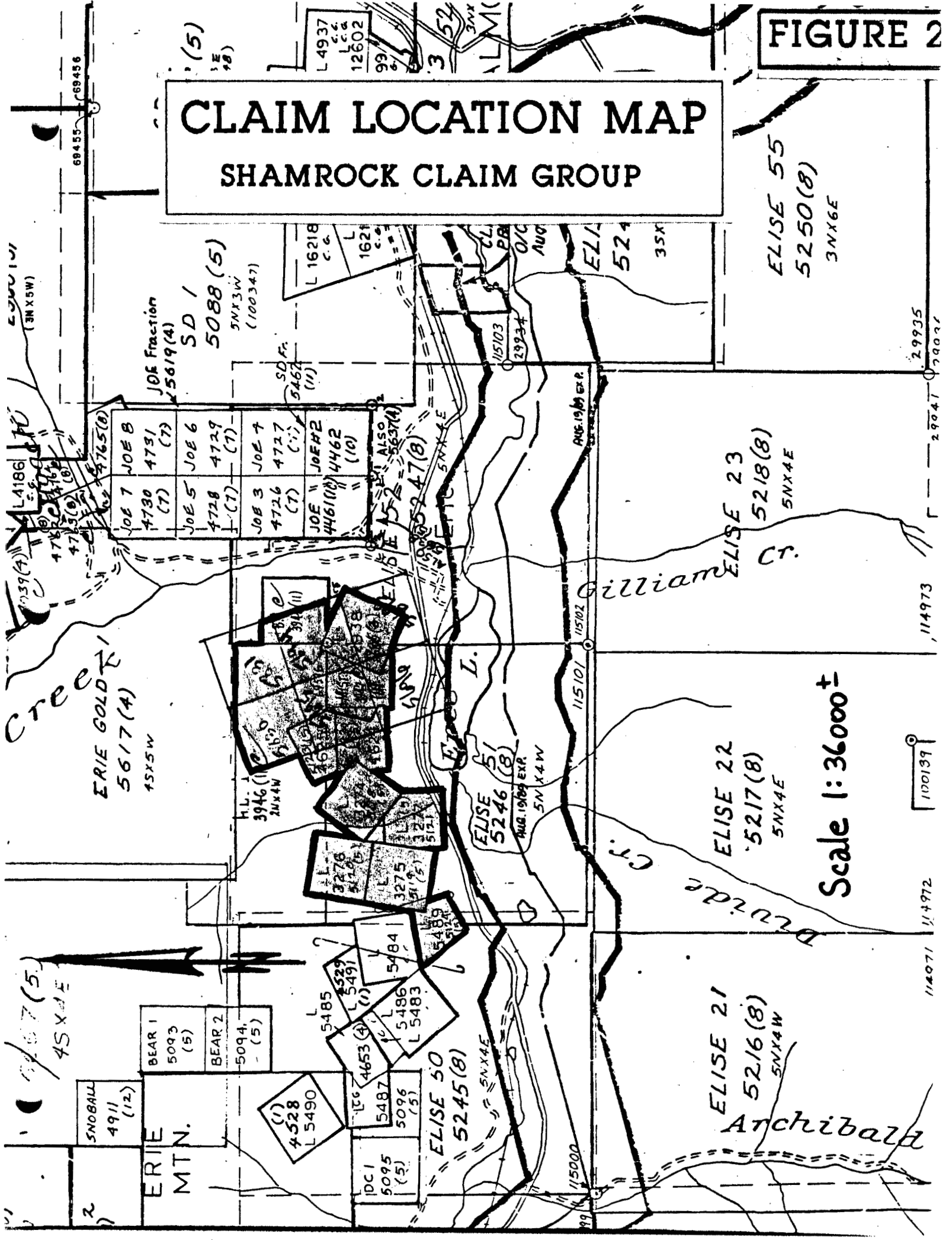
The Property ranges in elevation from about 2400 feet at the highway to about 3400 feet at the most Northerly edge of the claims (730 to 1040 metres). The terrain is moderately steep with typical slopes of 20 to 50%. Much of the property has been selectively logged and is covered with scattered timber and in places heavy brush.

The Property is situated in a relatively light snow area (<1 metre of snow in mid-winter) and is generally snow-free from early March to late November.

The depth of overburden is minimal in steeper areas, but is probably 1 to 2 metres deep on areas of less than 40% slope. There is very little outcrop in areas near the known mineral occurrences.

FIGURE 2

# CLAIM LOCATION MAP SHAMROCK CLAIM GROUP



Scale 1:36000±

#### 4.0 CLAIM INFORMATION:

The Shamrock Group is presently comprised of 14 mineral claims as follows:

NAME	RECORD #	CLAIM TYPE	EXPIRY DATE *
SHAMROCK	5118	REVERTED CG	MAY 26/91
RUSTLER	5119	REVERTED CG	MAY 26/90
ANTONIO	5120	REVERTED CG	MAY 26/90
MONDAY	5121	REVERTED CG	MAY 26/90
GILFORD	5122	REVERTED CG	MAY 26/91
MABEE	5123	REVERTED CG	MAY 26/91
MYEE	5124	REVERTED CG	MAY 26/90
LAKE 1	5693	2-POST	MAY 26/90
LAKE 2	5694	2-POST	MAY 26/90
ERIE 1	5695	2-POST	MAY 26/90
ERIE 2	5696	2-POST	MAY 26/90
ERIE 3	5697	2-POST	JUN 25/90
ERIE 4	5697	2-POST	JUN 25/90
YELLOW DOG	6189	REVERTED CG	MAR 15/91

\* Expiry date prior to recording of work detailed in this report.

#### 5.0 HISTORY AND DEVELOPMENT:

Two ages of workings are present on the property. The older of these consists of numerous adits, shafts, pits and trenches which were directed at exploring narrow quartz veins in the granites and sediments. It is assumed that these workings date back to the turn of the century. The original claims on which the workings are found were Crown Granted during the years 1898 to 1904.

The 1933 B.C. Ministry of Mines Annual Report describes the workings on the Shamrock Claim and indicates that there was some interest in the area at that time. However, no mention is made of any specific work being done.

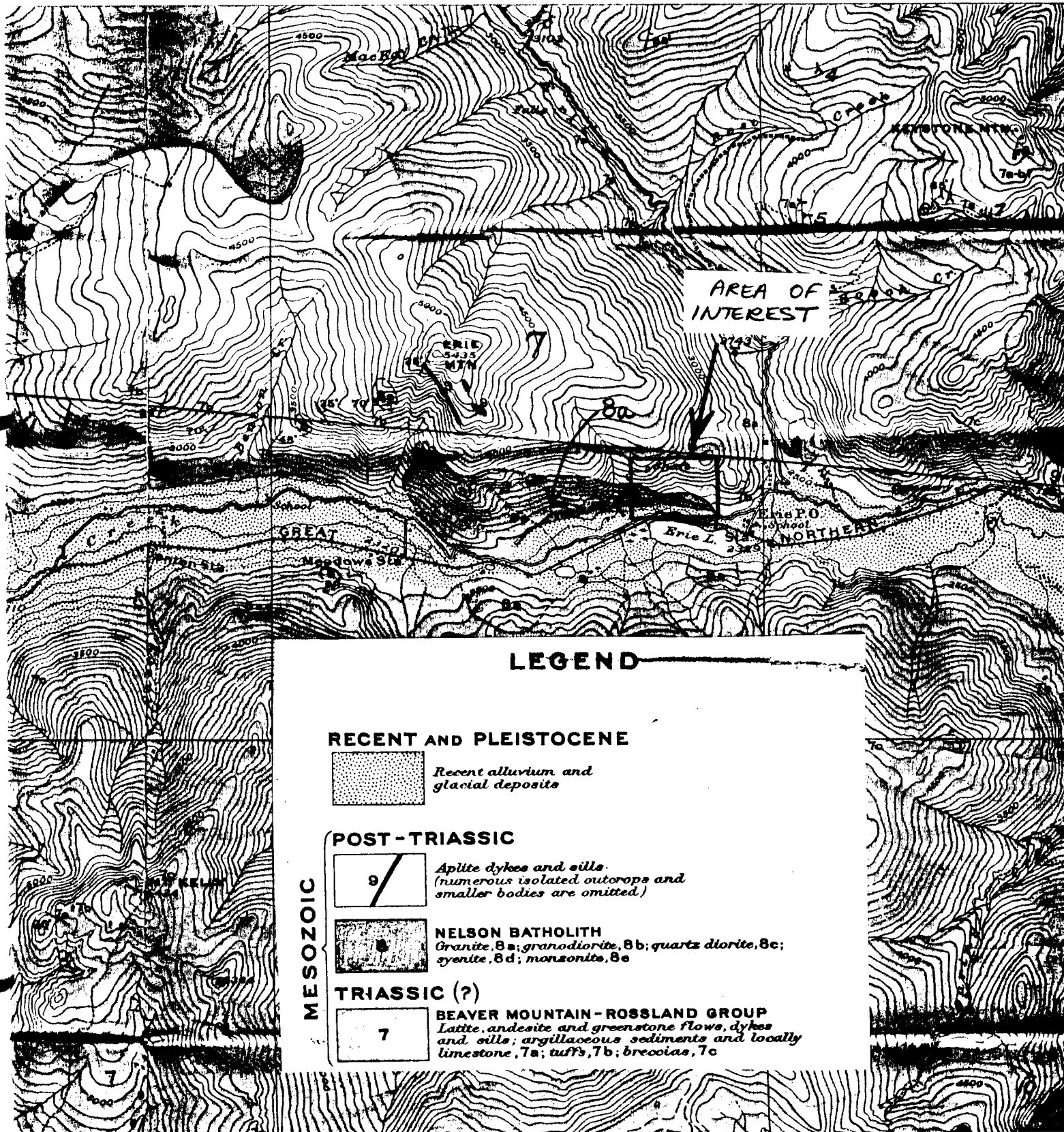
There are two cat trenches on the property (at the West showing and Breccia showing) and it is estimated that this work was carried out during the past 10 to 20 years. No record of this work could be found in the literature.

No records of production are known for any of the claims comprising the property.

The present claims were acquired by R. Bourdon in 1988 to 1990. The primary exploration targets at this time are the silicified, brecciated zones exposed in the cat trenches.

# REGIONAL GEOLOGY SHAMROCK CLAIM GROUP

(portion of GSC map 299A, J.F. Walker 1931)



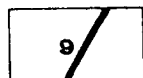
AREA OF INTEREST

## LEGEND

### RECENT AND PLEISTOCENE

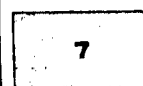
 Recent alluvium and glacial deposits

### POST-TRIASSIC

 Aplite dykes and sills (numerous isolated outcrops and smaller bodies are omitted)

 NELSON BATHOLITH  
Granite, 8a; granodiorite, 8b; quartz diorite, 8c; syenite, 8d; monzonite, 8e

### TRIASSIC (?)

 BEAVER MOUNTAIN-ROSSLAND GROUP  
Lattice, andesite and greenstone flows, dykes and sills; argillaceous sediments and locally limestone, 7a; tuffs, 7b; breccias, 7c

MESOZOIC

## 6.0 GEOLOGY:

The general geology of the area is shown on Map 1090A which accompanies G.S.C. Memoir 308, H.W. Little, 1960. The property is underlain by Jurassic Rossland Group volcanics and sediments which have been intruded by Jurassic Nelson granites. To the North, East and Southeast of the Breccia showing is a large alteration area of silicification and pyritization. The alteration of the sediments is probably a result of the small nearby intrusion of Nelson granites. However, it is interesting that no such alteration is present in the Northwest portion of the property where a similar environment occurs.

The two showings which are considered to have the best potential, are hosted by silicified, brecciated shear zones in the intrusive at or near the contact with volcanics and sediments. Numerous narrow quartz veins are also present on the property but these are considered to have very little potential. Geology based on Little's work and supplemented by our recent field work is shown on Figure 7 in the back pocket of this report.

## 7.0 ROCK GEOCHEMISTRY:

A total of 10 man-days were spent traversing the property, mapping, and sampling outcrops. During that time, 49 rock samples were collected and analyzed for 30-element ICP + Au.

Samples were placed in heavy plastic bags, tagged and shipped by Greyhound to Acme Analytical Labs in Vancouver for geochemical analysis. The sample is crushed to  $-3/16"$ , split in approx. 1/2, and pulverized to  $-100$  mesh. From this, a 0.500 gram sample is digested with 3 ml. of 3-1-2 HCl-HNO<sub>3</sub>-H<sub>2</sub>O at 95°C for one hour and is diluted to 10 ml. with demineralized water. Multi-element analysis is done by Inductively Coupled Argon Plasma. Elements obtained in the ICP analysis are: Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K and W.

Gold is determined by igniting a 10 gram sample overnight at 600° C and digesting it in 30 mls. of hot dilute Aqua Regia. 75 ml. of clear solution obtained is extracted with 5 ml. of Methyl Isobutyl Ketone (MIBK). Au is determined in MIBK extract by Atomic Absorption.



Following are descriptions of the samples taken:

Sample#	Description
72846	West showing/grab/long trench/Pb-Zn in qtz.
72847	West showing/grab/long trench/intrusive
72848	West showing/grab/long trench/intrusive
72849	West showing/grab/long trench/intrusive
72994	Breccia showing/brecciated intrusive with galena-sphalerite-pyrite filling
72995	Breccia showing/silicified sediment/dissem Py
72996	Breccia showing/purple silicified volcanic with Galena-Sphalerite disseminated in veinlets
72997	Breccia showing/white clay altered intrusive with yellow-green staining
72998	Breccia showing/orange rusty weathering volcanic with coarse Galena
72999	West showing/grab higrade Galena-Py/quartz vein?
73000	West showing/brecciated intrusive/fine grained chlorite?-Pyrite-Galena in matrix
16293	Shaft showing/trench 20m south/banded quartz/no sulphides
16294	same place as 16293/rusty argillite with minor pyrite
16295	10m West of 16294/rusty argillite/minor quartz stringers
16296	±400m SE of Breccia showing/altered silicified sediments/disseminated py-minor Cu stain
16297	±50m NW of 16296/silicified diorite? with minor Cu stain
16298	±100m East of 16296/very silicified pyritized sediments near old adit
16336	Across road 50m NW of Breccia showing/black sediment/fg pyrite
16337	Shaft/grab from dump/qtz + py
16338	Shaft/grab from dump/qtz + py + galena + sphalerite
16339	±100m NW of Shaft/black cherty rx with disseminated fg pyrite
16340	test pit ±30m NE of Shaft/qtz + minor galena/sphalerite/pyrite
16341	Breccia showing/disseminated galena-sphalerite-pyrite-chalcopyrite in silicious green sediment
16342	Breccia showing/similar to 16341 but with quartz stringers
16343	±200m west of Breccia showing/grab adit dump/qtz vein material with minor Pb-Zn-Py
16344	±50m NW of 16343/qtz vein material with minor galena-sphalerite-chalcopyrite-pyrite
16345	Approx 200m North of Breccia showing/very altered silicious pyritized rx
16346	Same as 15345 but 20m North

16347 Same as 15346 but 30m North  
 16348 Same as 15347 but 30m North  
 16349 Same as 15348 but 40m North  
 30001 West showing/most Easterly adit in  
 trench/0.5m of rusty sheared intrusive with Pb-Zn-Py  
 30002 West showing/most Easterly adit in  
 trench/0.5m of another shear with Pb-Zn-Py in breccia matrix  
 30003 Adit  $\pm 100$ m West of long trench at West  
 showing/massive white quartz with trace pyrite  
 30004 West showing/higrade galena from shaft dump  
 30005 West showing/higrade pyrite from shaft dump  
 30006 Cut  $\pm 100$ m East of 30005/galena-pyrite in  
 brecciated clay altered intrusive  
 30007  $\pm 100$ m SE of long trench/in road cut/quartz  
 cemented brecciated siltstone  
 30008 same location as 30007/talus grab/rusty white  
 quartz/no sulphides  
 30009  $\pm 100$ m SE of 30008/quartz stringers in granite  
 near feldspar porphyry dyke  
 30010 Shaft showing/higrade quartz-pyrite-galena  
 30011 Shaft wallrx/rusty argillite  
 30012 Trench  $\pm 20$ m South of shaft/rusty argillite  
 30013  $\pm 15$ m NE of 30011 is another shaft/quartz with  
 approx 20% pyrite  
 30014 same location as 30013/rusty siltstone wallrx  
 30015  $\pm 35$ m NE of 30014/shaft dump/barren quartz  
 stringers  
 30016  $\pm 50$ m NW of 30010/small open cut/rusty  
 argillite with minor pyrite  
 30017 Near road North of Breccia showing/grab rusty  
 intrusive  
 30018 Same as 30017

## 8.0 BRIEF DESCRIPTION OF MINERALIZED SHOWINGS

Although there are many old workings and showings on the property, most are on narrow Northeast striking quartz veins which generally carry only anomalous values and are of very little interest as exploration targets. The following described mineral occurrences are considered to have the best potential.

**BRECCIA SHOWING:** This showing is located just East of a switchback on an old logging road. Workings consist of a small area of outcrop which appears to have been stripped using a tractor within the past 20 or so years. The stripped area reveals a sheared, clay altered, silicified, brecciated zone possibly 5 metres wide at the contact of volcanics and/or sediments to the North and granite to the South. The zone appears to strike in a Northwesterly direction and contains scattered sulphides of galena, sphalerite, pyrite and chalcopyrite as disseminations, in

quartz stringers, and in the matrix of the brecciated intrusive. The true extent of the mineralization is not known due to the very limited outcrop. Samples taken of mineralized material indicate erratic values in gold, silver, lead, zinc and copper. The best gold values (0.06 oz/t) were obtained from brecciated intrusive with disseminated sulphides in a silicious matrix. Visually, and in assays, the best sulphides are associated with silicified sediments? or volcanics? adjacent to the intrusive. Values of 4% zinc, 2% lead and minor copper were obtained. Silver values were low (generally less than 1 oz/t) at this showing.

**WEST SHOWING:** This showing is located approximately a kilometer to the West of the Breccia showing and is accessible by an old road which ends at the showing. Except for the most Easterly end of the long trench where the contact of granite and sediments is exposed, the workings are entirely within the intrusive and consist of a number of caved adits and a shaft and a major cat trench about 200 metres long and 10 metres wide. The large trench exposes mineralization which is somewhat similar to that found at the Breccia showing. Outcrops and broken rock within the trenched area indicate one, or possibly more than one, parallel silicified shear which strikes at about 70 degrees and contains auriferous brecciated intrusive, quartz veining and scattered galena, sphalerite and pyrite mineralization. Assays taken at this location indicate erratic values in gold, silver, lead and zinc. The best values obtained were 0.07 oz/t Au, 8 oz/t Ag, 2% Pb and 4% Zn.

**SHAFT SHOWING:** This showing is located Northeasterly and approximately 400 metres uphill from the West showing. An old road provides good 4-wheel drive access to this showing. Workings consist of 3 shafts and a number of pits and trenches which are aligned in a Northeasterly direction. No outcrop of mineralization can be seen, but judging from the most southerly shaft dump, previous workers were exploring a narrow NE striking quartz vein mineralized with galena, sphalerite and pyrite. Assays of grab samples from the dump assay up to 0.5 oz/t gold, 2% lead, 4% zinc and a few ounces of silver. This occurrence, if considered in isolation, is probably of no consequence, however, the fact that it appears to be on strike with the Breccia showing indicates that the two may be structurally related. All workings in this area are within relatively unaltered argillaceous sediments.

# ERIE MAG RECCE: LINE A

(STN. 0 AT BRECCIA SHOWING)

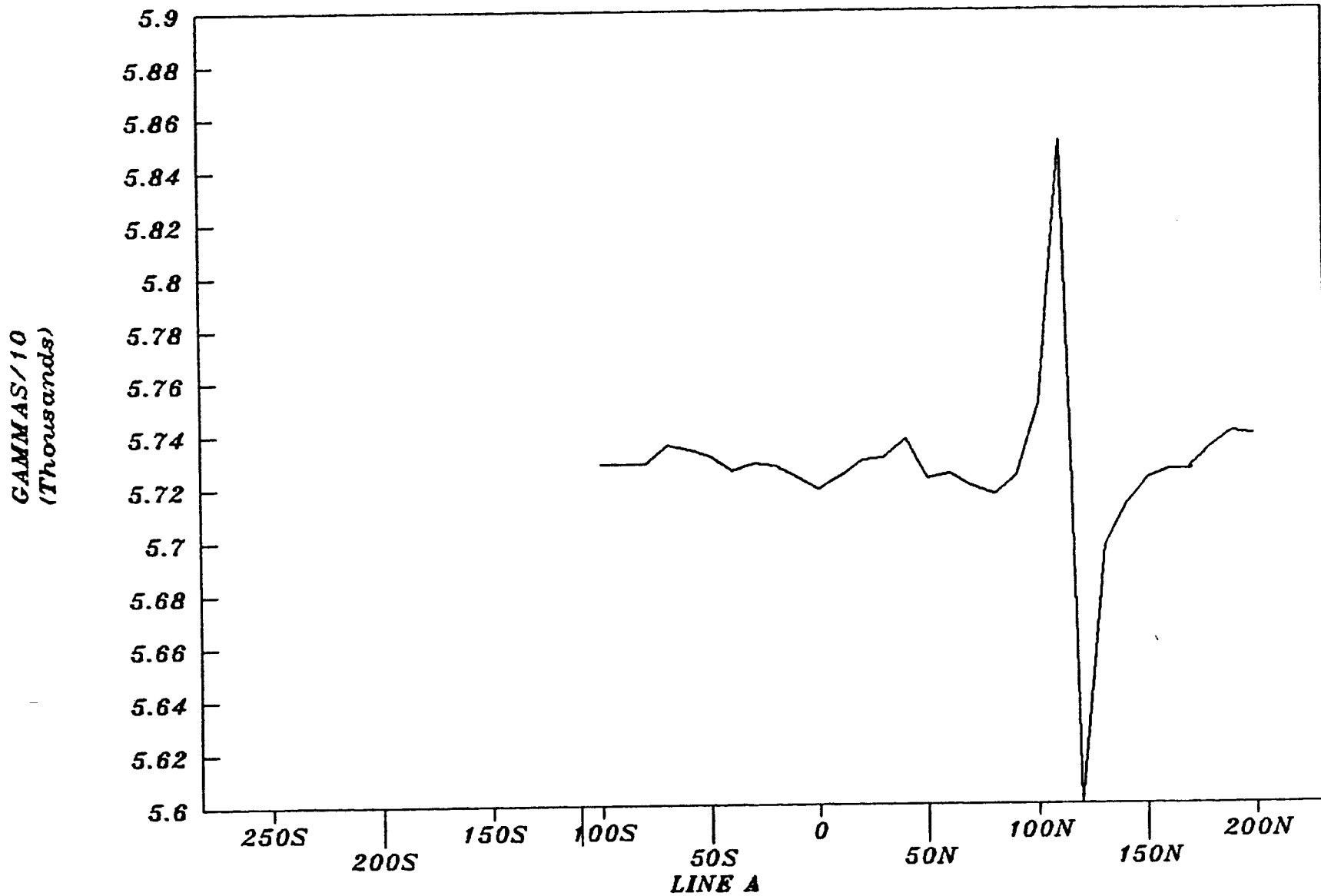


FIGURE 4

# ERIE MAG RECCE: LINE B

(STN. 0 AT 50m SE OF SHOWING)

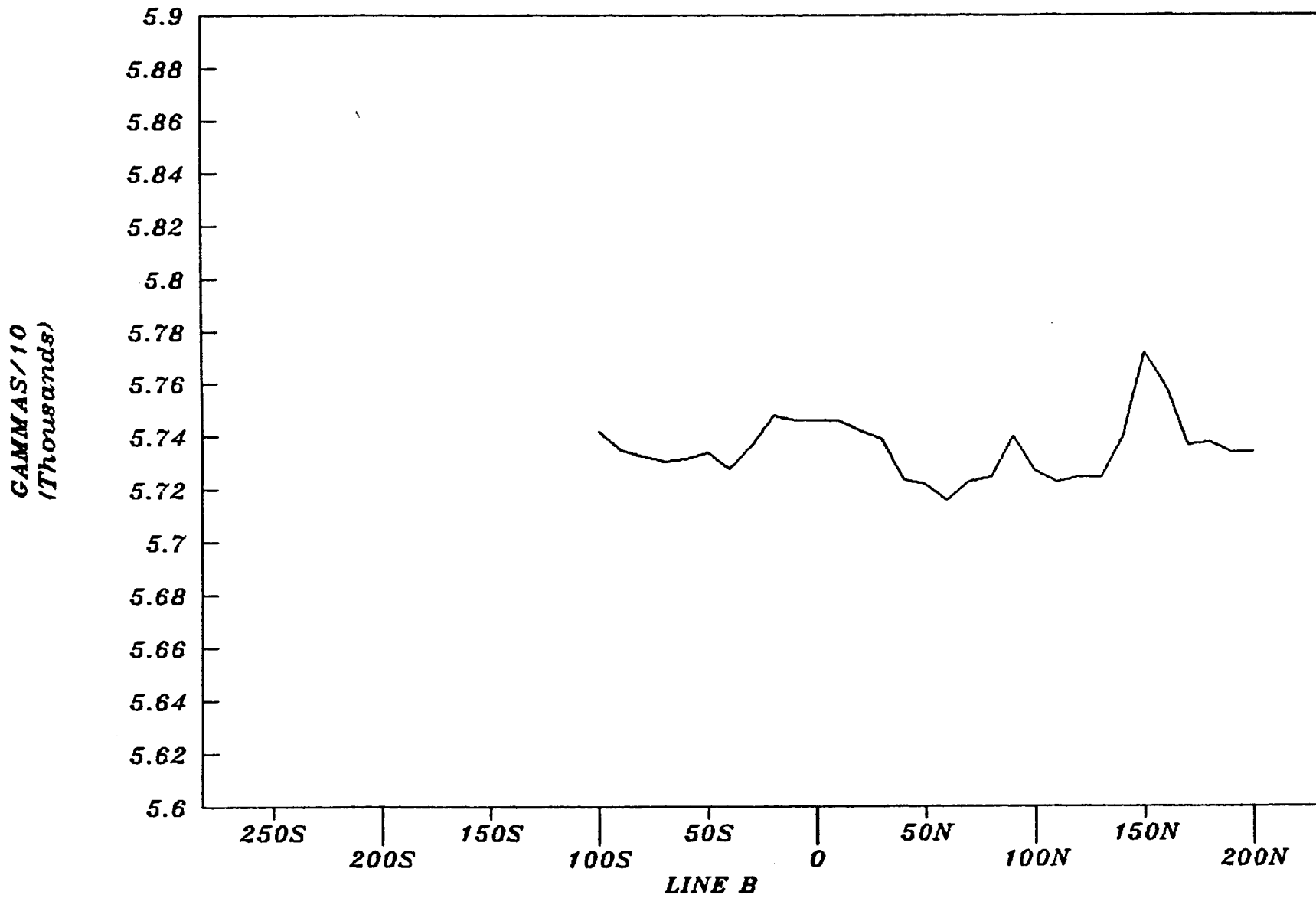


FIGURE 5

# ERIE MAG RECCE: LINE C

(STN. 0 AT SBACK BETWEEN SHOWINGS)

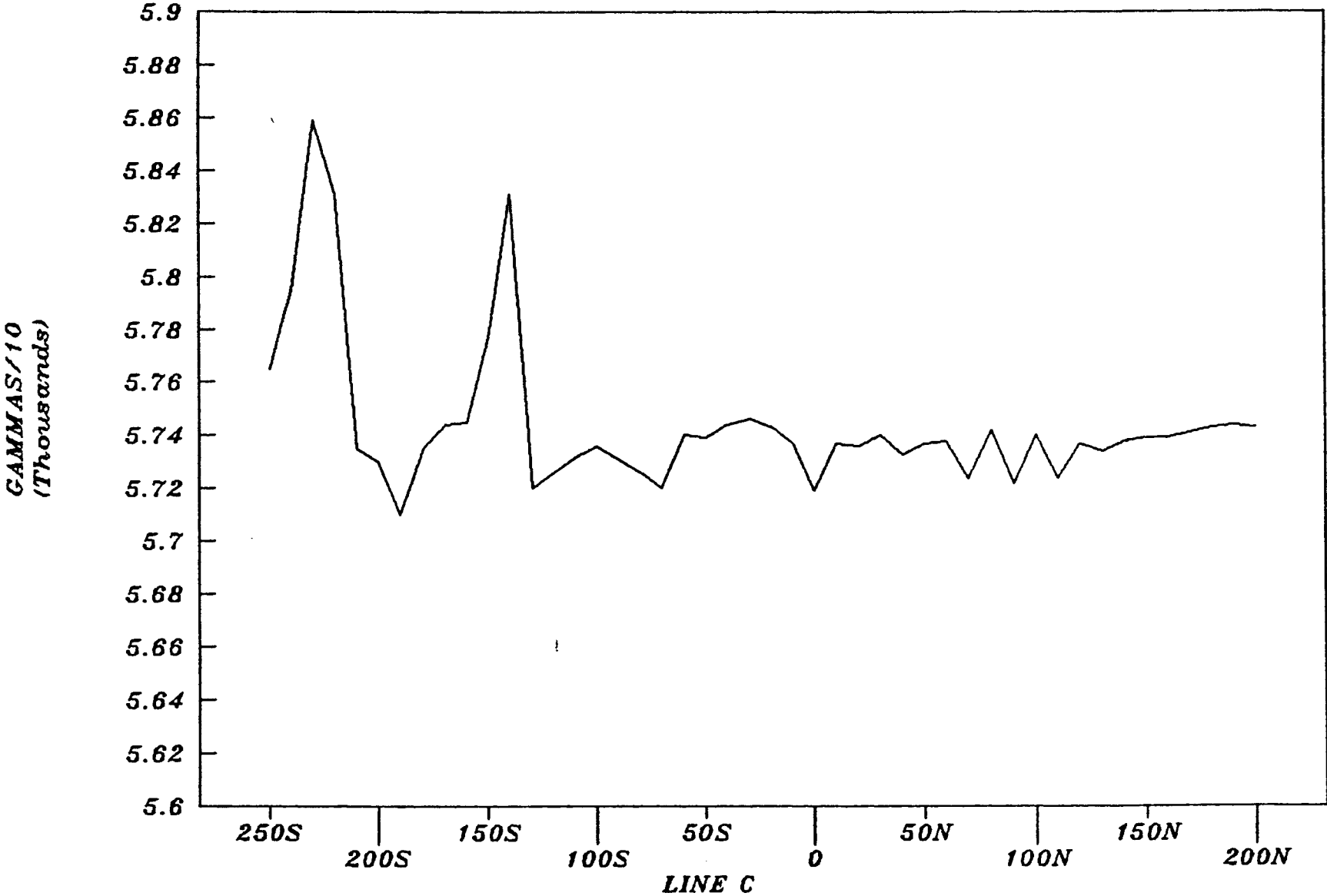


FIGURE 6

## 9.0 MAGNETOMETER SURVEY PROCEDURE:

There is very little outcrop adjacent to and on strike with the shear related showings. Two man-days were spent establishing three short magnetometer survey lines to determine if this method could be used to advantage to follow the most Easterly mineralized structure (Breccia showing). The mineralization appears to trend in a Northwest-Southeast direction and survey lines were run Northeasterly. Since our survey was of a very grassroots reconnaissance nature, no formal grid was established. One line was run directly over the known showing and one on either side. Line locations are shown on Fig. 7. All lines were measured using hip-chain and compass, stations were marked at 10 metre intervals, and magnetometer readings were taken every 10 metres.

The instrument used was a **Geometrics Model G-836 proton magnetometer** with a sensitivity of  $\pm 5$  gammas. The instrument measures **total magnetic field intensity** and measurements are independent of the orientation of the sensor. In order to maintain consistency during the survey, all readings were taken with the instrument facing in a Northeast direction. The station at the road junction just Northeast of the showing (57250 gammas) was checked at the start and end of each line. Fluctuations were less than 50 gammas and are considered insignificant.

## 10.0 PRESENTATION OF DATA:

Magnetometer survey lines and readings are shown on Figure 7. No contouring has been done because of the minimal amount of data available. Magnetic profiles for the three lines are shown in figures 4, 5 and 6.

All sample locations for rock geochem analyses are shown on Fig. 7.

## 11.0 SUMMARY AND CONCLUSIONS:

The field examinations and geochem/geophysics reconnaissance program carried out on the Shamrock Claim Group in 1989-90 indicates the following:

- i. Of the 49 rock samples collected and analyzed, anomalous values in economic minerals are confined to shears and quartz vein showings. No values were detected in country rocks.

ii. Geochemical analyses indicate that elevated gold values are generally accompanied by anomalous arsenic. This is particularly true at the West showing. This may prove to be of value if carrying out a soil geochem program.

iii. No anomalous magnetics were detected over the Breccia showing and the three short magnetometer survey lines failed to detect any obvious northwesterly trend.

## 12.0 RECOMMENDATIONS:

In light of the strong shearing, widespread mineralization and large area of alteration, it is the writer's opinion that the claim area is a good target for further exploration. First priority future work should be directed at determining the extent of the known mineral occurrences (West and Breccia showings). Since prospecting is very limited by the lack of outcrop, it will be necessary to employ other methods such as soil geochemistry and geophysics.

When conducting future exploration programs, it should be kept in mind that mineralization appears to be related to both Northeast (ie. West showing) and Northwest (ie. Breccia showing) structural trends, and that any grid established for soil or geophysical surveys should be designed to detect mineralization which follows such trends.



R.J. Bourdon

July 1990



BIBLIOGRAPHY  
SHAMROCK CLAIM GROUP

**OPEN FILE MAP 1990-8;** Geology of the Rossland Group...,  
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1902, 1904, 1928, 1933

**MAP 299A;** Geology Salmo Area, J.F. Walker, 1931

**PRELIMINARY MAP 50-19A;** Salmo Area, H.W. Little, 1950

**PRIVATE REPORT ERIE CLAIMS;** Corona Corporation,

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Pt** ppb
A 16288	11	118	10	22	.5	11	12	157	4.42	2	5	ND	1	45	1	2	2	36	.50	.080	2	11	.50	57	.24	2	.59	.02	.14	1	1	-
A 16289	1	18752	5	32	24.4	11	24	2068	8.42	4	5	ND	1	4	4	2	4	62	5.25	.007	2	17	.06	1	.02	2	.88	.01	.01	1	1	-
A 16290	1	14517	4	23	21.7	20	69	1865	10.64	4	5	ND	1	2	4	2	2	76	4.99	.001	2	6	.05	6	.02	2	.86	.01	.01	5	1	-
A 16291	1	75	2	34	.3	21	20	377	7.26	2	5	ND	1	68	1	2	2	228	1.79	.024	2	9	1.06	62	.25	3	1.11	.06	.23	1	1	8
A 16292	2	4745	2	81	4.0	26	10	3700	9.23	6	5	ND	1	3	4	2	2	84	8.31	.004	2	19	.23	12	.02	2	1.61	.01	.02	3	1	-
A 16293	5	26	5	11	.1	10	2	247	1.09	2	12	ND	33	8	1	2	2	1	.17	.001	10	9	.06	10	.01	2	.34	.04	.07	4	1	-
A 16294	10	102	14	31	.4	22	9	414	3.12	60	5	ND	2	22	1	2	2	36	.28	.073	4	14	.41	44	.02	2	.71	.04	.10	1	13	-
A 16295	24	108	11	68	.1	25	10	371	2.89	3	5	ND	1	77	1	2	2	58	1.14	.091	5	21	.78	87	.16	2	1.90	.10	.24	2	1	-
A 16296	3	67	3	110	.7	15	23	1456	5.23	6	5	ND	1	222	1	4	3	114	5.17	.140	5	9	1.74	100	.01	2	1.07	.01	.06	1	4	-
A 16297	1	191	139	128	1.9	24	23	1714	5.18	4	5	ND	10	198	1	2	2	96	4.11	.486	105	33	3.02	48	.01	2	3.18	.01	.05	1	1	-
A 16298	3	164	5	58	.5	14	17	641	4.34	4	5	ND	1	98	1	2	2	61	2.53	.132	6	11	.88	49	.09	5	1.75	.09	.07	21	11	-
STANDARD C/AU-R	18	58	43	134	6.7	67	31	1054	4.18	45	24	7	37	47	18	16	21	57	.50	.093	37	56	.92	178	.08	36	1.99	.06	.13	11	510	-

/ ASSAY RECOMMENDED

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 SR 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/ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 18 1989 DATE REPORT MAILED: *Oct 23/89* SIGNED BY: *C. Long* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

PROJECT 1010 ERIE File # 189-4357

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	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	PPB
JEX-1 SILT	1	50	31	94	.4	23	12	498	3.40	15	5	ND	3	48	1	2	3	76	.64	.062	11	41	.79	100	.09	3	1.80	.03	.16	8	15
D 30001	34	85	9827	32973	19.8	9	8	325	5.89	327	5	ND	7	21	422	11	2	1	.26	.029	4	5	.07	14	.01	2	.15	.02	.06	1	2100
D 30002	98	15	7950	209	17.5	6	4	451	1.67	153	6	ND	8	20	4	6	2	2	.33	.031	8	6	.07	21	.01	10	.14	.01	.10	1	800
D 30003	48	9	302	428	.6	11	1	28	.62	13	5	ND	1	3	6	2	2	1	.01	.005	2	10	.01	4	.01	6	.02	.01	.01	1	121
D 30004	23	58	21786	5291	230.9	5	5	15	4.34	204	5	ND	2	5	198	1259	37	1	.01	.001	2	3	.01	1	.01	2	.01	.01	.01	1	880
D 30005	15	227	17639	45508	212.3	3	8	27	13.46	881	5	2	5	47	715	562	3	1	.01	.011	2	2	.01	2	.01	2	.08	.01	.03	1	2240
D 30006	33	20	18881	2589	39.0	9	7	982	2.39	77	5	ND	10	43	44	32	2	8	1.13	.091	11	6	.32	49	.01	16	.44	.01	.20	1	920
D 30007	2	12	33	56	.1	6	5	916	2.71	27	5	ND	1	55	1	2	2	60	1.03	.031	2	11	.82	31	.02	9	1.11	.02	.01	1	26
D 30008	3	5	777	22	1.8	10	2	75	.45	2	5	ND	1	1	1	2	2	2	.01	.002	2	8	.04	2	.01	2	.05	.01	.01	1	22
D 30009	9	7	1197	109	3.0	7	2	249	.82	2	5	ND	35	4	2	2	2	8	.07	.016	17	7	.12	28	.02	2	.30	.03	.10	1	13
D 30010	2	49	9441	865	16.1	22	37	63	15.19	733	5	4	1	6	6	14	3	1	.08	.004	2	24	.01	1	.01	2	.06	.01	.02	1	4690
D 30011	7	74	133	477	.4	15	10	382	4.73	30	5	ND	1	19	8	2	2	78	.43	.081	4	17	.96	77	.07	2	1.51	.03	.37	1	37
D 30012	4	56	338	97	.7	14	11	434	3.92	16	5	ND	1	30	1	2	2	99	.73	.074	4	33	1.09	15	.13	4	1.88	.05	.09	2	13
D 30013	2	19	354	46	2.0	73	45	180	9.71	417	5	4	1	15	1	3	2	4	.45	.006	2	38	.06	4	.01	2	.11	.02	.01	2	3760
D 30014	6	70	117	176	.3	18	10	489	4.45	7	5	ND	1	27	1	2	2	78	.45	.079	4	19	1.28	74	.10	2	2.16	.04	.33	1	15
D 30015	2	11	57	77	.1	6	6	869	3.48	25	5	ND	1	174	1	2	2	10	3.94	.019	2	25	1.02	3	.01	10	.78	.02	.01	1	26
D 30016	4	69	18	80	.2	6	13	653	4.67	8	5	ND	2	33	1	2	2	84	.61	.142	6	19	1.51	69	.13	2	2.46	.04	.46	1	11
D 30017	2	119	19	24	.1	20	22	225	4.05	4	5	ND	1	100	1	2	2	50	1.60	.108	3	29	.47	34	.11	2	1.05	.09	.06	1	2
D 30018	2	3	234	35	.1	8	4	170	.60	2	5	ND	6	3	1	2	2	3	.05	.014	3	5	.02	12	.01	5	.12	.02	.05	1	6
STD C/AU-R	18	61	38	132	7.2	67	31	1028	3.99	39	18	7	36	47	18	15	22	57	.48	.089	37	55	.88	175	.06	33	1.93	.06	.13	12	520

*start with 100*

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 RE FR CR CA P LA CE MG BA YI B W AND LIMITED FOR NA K AND AL. AN DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK/SILT AN\* ANALYSIS BY ACID LEACH/AA FROM 10 GR SAMPLE.

DATE RECEIVED: JUN 29 1989

DATE REPORT MAILED:

July 5/89

SIGNED BY: D. TOYE, C. LUCNG, J. WANG; CERTIFIED B.C. ASSAYERS

File # 89-1794

SAMPLE#	NO	Cu	Pb	Zn	Ag	Hg	Co	Ni	Fe	As	B	Au	Yb	St	Cd	Sb	Bi	V	Cr	P	La	Ce	Hf	Ta	Th	U	Al	Mo	K	W	AO*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
A 16336	1	52	116	276	.2	114	26	1776	5.16	6	5	ND	8	220	2	2	2	90	3.06	.061	62	177	3.46	185	.06	2	3.67	.03	.25	1	5
A 16337	2	30	1541	239	5.4	36	45	50	16.23	794	5	ND	2	7	2	2	2	2	.12	.062	2	6	.02	1	.01	2	.06	.01	.01	1	4220
A 16338	12	66	18684	11201	181.9	11	16	110	5.60	170	5	10	1	16	533	154	2	10	.19	.011	2	7	.36	1	.01	2	.16	.01	.01	2	16340
A 16339	9	66	125	144	.6	28	15	381	4.72	8	5	ND	2	61	2	2	8	140	.04	.054	5	26	1.33	124	.10	2	3.02	.17	1.27	1	36
A 16340	9	81	377	147	1.6	68	46	328	9.10	177	5	ND	1	27	2	2	2	21	1.07	.026	2	6	.58	20	.01	10	.67	.01	.09	1	133
A 16341	1	428	5600	8992	6.2	250	36	2194	7.27	21	5	ND	4	143	86	2	2	67	3.15	.100	9	133	3.90	10	.01	4	2.91	.01	.03	1	8
A 16342	16	2585	20700	37306	61.6	17	8	123	1.06	13	5	ND	10	12	382	3	16	1	.21	.002	2	6	.19	8	.01	2	.12	.01	.05	2	220
A 16343	19	701	13817	7532	10.3	13	8	906	3.97	6	5	ND	1	10	61	3	12	66	.17	.037	2	13	1.31	11	.03	2	1.99	.01	.04	1	8
A 16344	80	2389	28126	13480	28.6	11	11	1099	6.48	17	5	ND	2	10	93	8	36	64	.30	.056	4	13	1.28	10	.03	2	2.06	.01	.05	1	1
A 16345	2	144	67	91	.5	17	27	346	5.62	6	5	ND	1	212	1	2	2	112	2.61	.126	4	16	.59	35	.12	2	4.04	.36	.13	1	4
A 16346	2	188	141	150	.5	12	21	528	5.25	5	5	ND	1	271	1	2	2	100	1.05	.100	4	15	1.46	36	.13	2	3.81	.20	.09	1	1
A 16347	2	188	15	72	.8	7	26	789	6.13	19	5	ND	1	163	1	2	2	90	1.07	.117	5	2	.88	93	.09	3	2.35	.13	.12	1	1
A 16348	4	84	24	139	.6	17	14	549	7.11	8	5	ND	1	117	2	2	2	68	1.92	.071	4	16	1.01	49	.06	2	2.50	.13	.34	1	3
A 16349	1	191	17	83	.3	5	19	467	4.54	7	5	ND	1	364	1	2	3	71	3.79	.127	3	2	1.48	107	.14	2	6.29	.25	1.06	1	4
A 16351	1	341	13	109	.5	7	19	976	4.30	4	5	ND	1	117	1	2	2	49	3.00	.160	4	2	1.35	49	.14	4	2.16	.01	.11	1	10
A 16352	1	8533	14	69	4.5	43	29	717	5.14	3	5	ND	1	48	1	2	2	103	.79	.114	2	30	1.34	102	.15	2	1.60	.02	.56	1	610
A 16353	1	144	19	83	.5	33	25	1051	5.64	11	5	ND	21	426	1	2	4	121	4.56	.520	166	66	3.30	357	.17	2	2.90	.10	.34	1	5
A 16350	1	55	7	45	3.8	12	40	281	27.52	5	5	11	6	21	1	2	2	393	.28	.050	5	87	.29	32	.07	2	.51	.01	.05	4	7570
A 16350A	1	43	10	46	.3	8	32	329	23.66	8	5	ND	3	28	1	2	2	373	.36	.076	6	86	.43	27	.06	2	.63	.01	.06	12	630
STD C/AU-R	18	61	42	132	6.7	69	31	1009	6.08	37	23	8	38	49	18	14	21	59	.52	.091	39	56	.91	175	.07	39	2.03	.06	.33	12	490

Erie  
 Leaked creek  
 (400 m. E of bridge)

ASSAY REQUIRED FOR CORRECT RESULT -

- 16336 Erie - switchback W. of porphyry showing - black pyritic sediments? some PbS.
- 16337 Erie - Mabee D qtz + py.
- 16338 Erie - Mabee D qtz + py + Pb + Zn.
- 16339 Erie - scattered py in black cherty rx.
- 16340 Erie - test pit on strike NE of D - py + minor PbZn.
- 16341 Erie - porphyry showing - minor Pb/Zn/Cu/Py in altered silicious rx.
- 16342 Erie - porphyry showing - Pb + Zn + Cu + Py - more quartz.
- 16343 Erie - narrow qtz vein } Charlie sample.
- 16344 Erie - " " }
- 16345 - 16349 - Erie silicious + py alteration area above porphyry showing

**GEOCHEMICAL ANALYSIS CERTIFICATE**

ICP - .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 NH FR SR CA P LA CR HG BA YI B W AND LIMITED FOR NA K AND AL. AN DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GR SAMPLE.

DATE RECEIVED: JUN 19 1989

DATE REPORT MAILED: *June 22/89*

SIGNED BY: *C. Long* . . . D. TOTR, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

File # 89-1600

SAMPLE#	No	Cu	Pb	Zn	Ag	H1	Co	Mn	Fe	As	W	Au	Pb	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	YI	B	Al	Na	K	V	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM	PPM
72846	10	1841	26825	41828	47.4	17	12	96	.80	10	5	ND	11	12	402	7	13	1	.23	.093	2	8	.14	9	.01	2	.18	.01	.07	3	99
72847	14	365	5023	18770	10.9	104	10	1007	3.55	6	5	ND	17	21	200	2	2	26	.49	.031	3	65	1.60	8	.01	2	1.32	.01	.04	4	23
72848	1	29	962	1484	1.2	372	36	4062	8.31	74	5	ND	2	225	10	2	2	62	7.71	.173	12	168	4.43	19	.01	6	3.23	.01	.01	1	4
72849	17	10	91	200	.4	7	3	362	1.83	321	5	ND	5	7	3	2	2	3	.13	.017	6	33	.08	22	.01	8	.19	.02	.06	1	700
72994	6	152	3707	1174	13.6	205	25	1645	7.55	13	5	2	9	60	13	3	5	55	.66	.130	6	107	1.12	115	.01	2	1.33	.01	.06	1	1910
72995	1	35	210	211	.2	98	26	2931	6.32	32	5	ND	12	386	1	3	2	63	6.84	.364	84	107	3.01	145	.01	9	.84	.01	.20	1	32
72996	4	297	3676	2558	6.1	21	21	875	3.89	5	5	ND	3	44	32	2	2	43	.77	.066	5	14	1.14	39	.01	3	.55	.01	.17	1	15
72997	1	5	70	65	.1	4	1	42	.22	2	5	ND	22	4	1	2	2	1	.85	.004	7	22	.02	12	.01	6	.19	.03	.08	1	5
72998	4	836	5829	9467	9.2	112	26	1364	5.16	13	5	ND	4	91	96	4	2	47	1.58	.128	6	47	1.82	67	.01	13	.98	.01	.24	1	153
72999	48	38	26684	13773	209.1	6	5	109	8.57	632	7	ND	9	11	251	421	5	2	.87	.031	4	17	.02	16	.01	13	.18	.02	.07	1	810
73000	86	39	20273	1117	32.1	7	7	506	4.58	319	5	ND	11	40	17	24	2	2	.47	.039	5	4	.13	12	.01	23	.20	.03	.06	1	1180
STD C/AU-R	17	59	40	132	6.6	67	30	1038	4.15	40	22	7	37	50	18	15	21	59	.49	.088	39	52	.86	177	.07	35	1.93	.06	.13	11	505

ASSAY REQUIRED FOR CORRECT RESULT

- 72846 - 49 W. Showing - long trends
- 72994 - 98 E. Showing
- 72999 - 000 W. Showing

*ERIK LK*  
*Bowdoin*

PROSPECTOR QUALIFICATIONS

1. I have been actively prospecting for the past 13 years.
2. In 1977 I attended and completed the prospecting course sponsored by the Chamber of Mines of Eastern B.C. which was instructed by G. Addie, Ministry of Mines District Geologist, Nelson.
3. In 1978 I attended and completed G. Addie's course a second time.
4. In 1979 I attended and completed the "Mineral Exploration for Prospector's" course sponsored by the B.C. Ministry of Energy and Mines and held at Selkirk College in Castlegar.

March 1990



R.J. Bourdon

## APPENDIX IV

STATEMENT OF COSTS  
SHAMROCK CLAIM GROUP PROJECT  
ERIE CREEK

## WAGES

C. Pittman,		
6 days @ \$150/day		\$900.00
R. Bourdon,		
6 days @ \$200/day		\$1200.00

## TRANSPORTATION

4x4 including fuel,		
8 days @ \$60/day		\$480.00

## FIELD EQUIPMENT

Magmetometer rental,		
2 days @ \$40/day		\$ 80.00
Flagging tape, sample bags, etc.		\$ 20.00

## LAB ANALYSES

Rocks: Au geochem + 32 element ICP		
49 samples @ \$15.25/sample		\$747.25
Shipping Greyhound Nelson to Vancouver		\$ 56.40

## REPORT PREPARATION

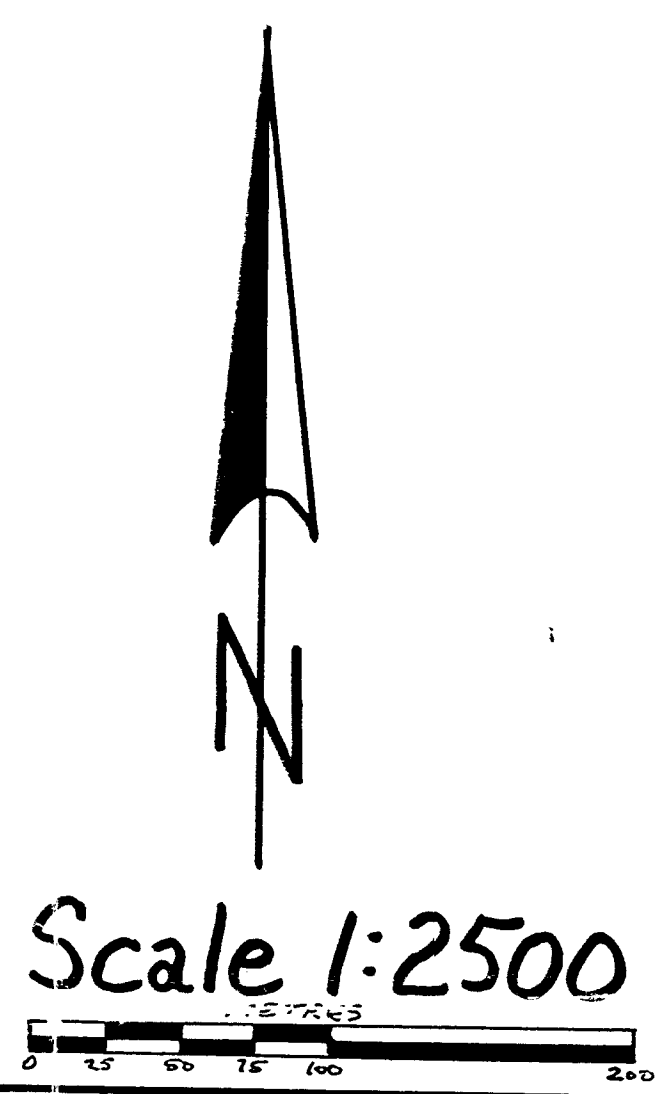
Report Preparation		\$200.00
Drafting, map reproduction		\$120.00
Secretarial		\$ 30.00

TOTAL		\$3833.65
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May 1990

## LEGEND

- FAULT?
- ADIT
- SHAFT
- PIT/TRENCH
- ROAD
- TRAIL
- OLD CABIN
- SAMPLE LOCATION/NUMBER
- STRIKE/DIP
- MAG SURVEY LINE
- MAG READING GAMMAS/10
- GEOLOGICAL CONTACT  
OBSERVED / ASSUMED



GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
20,208

