



exploration ltd.

GEOLOGY · GEOPHYSICS  
MINING ENGINEERING

4570 HOBKINS ROAD, NORTH VANCOUVER, B.C.  
TELEPHONE (604) 985-7921 V7K 2R1

83-#399-# 11441  
6/8384

GEOCHEMICAL AND GEOPHYSICAL REPORT

on the

JERO 1 to 4 CLAIMS  
(Rossland Property)

Trail Creek Mining Division - British Columbia

Lat. 49° 03' N

Long. 117° 48' W

N.T.S. 82 F/4W

for

JERO RESOURCES LTD.

by

D.G. Allen, P. Eng. (B.C.)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,441

August 25, 1983

Vancouver, B.C.

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## SUMMARY

Jero Resources Ltd. holds 4 claims (Jero 1 to 4 - 40 claim units) in the Rossland Gold camp of southern British Columbia. The camp has the second largest record of gold production in the province.

The claim area is underlain by sedimentary, volcanic and subvolcanic intrusive rocks of the Rossland Group which are intruded by northeast-trending dikes of quartz feldspar porphyry. No mineral occurrences are known on the Jero claims, however, preliminary work carried out during the period May 31 to June 3, 1983, has indicated the presence of widespread lead and zinc geochemical anomalies and several VLF electromagnetic anomalies.

A program of further geochemical soil sampling, and electromagnetic surveys and prospecting are recommended.

## CONCLUSION

The presence of widespread lead-zinc geochemical anomalies plus confirmation of airborne electromagnetic anomalies indicate that further work is warranted to evaluate the Jero claims.

## INTRODUCTION

Jero Resources Ltd. holds 4 claims totalling 40 claim units in the Rossland gold camp of southern B.C. The claims were acquired by staking in 1982 and 1983.

The claim area lies 4 kilometres south of the Centre Star, Le Roi, and War Eagle Mines (Centre Star group). These mines have the second largest recorded production of gold in British Columbia (2,706,000 ounces of gold, 3,300,000 ounces of silver and over 100,000 pounds of copper from 5,915,000 tons of ore).

No mineral occurrences are known on the Jero claims. The claims were staked to cover an area of favorable geology and a weak electromagnetic anomaly indicated by an airborne survey (Sheldrake, 1981).

This report summarizes results of five man days of work carried out on June 1 to June 3, 1983 by D.G. Allen, D. Cuvelier and A. Geoghegan. The work was designed as a preliminary step in evaluation of the eastern part of the claims and consisted of three lines of soil sampling and two lines of VLF-EM survey.

### LOCATION, PHYSIOGRAPHY, ACCESS

The claims are situated immediately to the south of Rossland (figures 1 and 2). They lie between 3100 and 4800 feet on the north slopes of Baldy Mountain. Slopes are gentle to moderately steep and are covered with a second growth of balsam fir, cedar, Jack pine, spruce, birch and scrub alder. The northwest corner of the Jero 3 claim covers some farmland. The claim area is accessible by several 4-wheel drive roads.

### CLAIM DATA

The Jero 1-4 claims are registered in the name of Jero Resources Ltd. Claim data are as follows (see figure 3):

<u>Name</u>	<u>No. Units</u>	<u>Record No.</u>	<u>Tag No.</u>	<u>Expiry Date</u>
Jero 1	12	654 (6)	14335	June 8, 1984
Jero 2	6	741 (6)	87677	June
Jero 3	18	742 (6)	87688	June
Jero 4	4	653 (6)	14333	June 8, 1984
Total	40			

### HISTORY

The Rossland mining camp was the second largest gold producing camp in British Columbia. Total recorded production (mainly during the period 1895-1937) 2,706,000 ounces of gold

JERO RESOURCES LTD.  
JERO CLAIMS  
LOCATION MAP

SCALE 200 100 0 100 200 KILOMETRES MILES

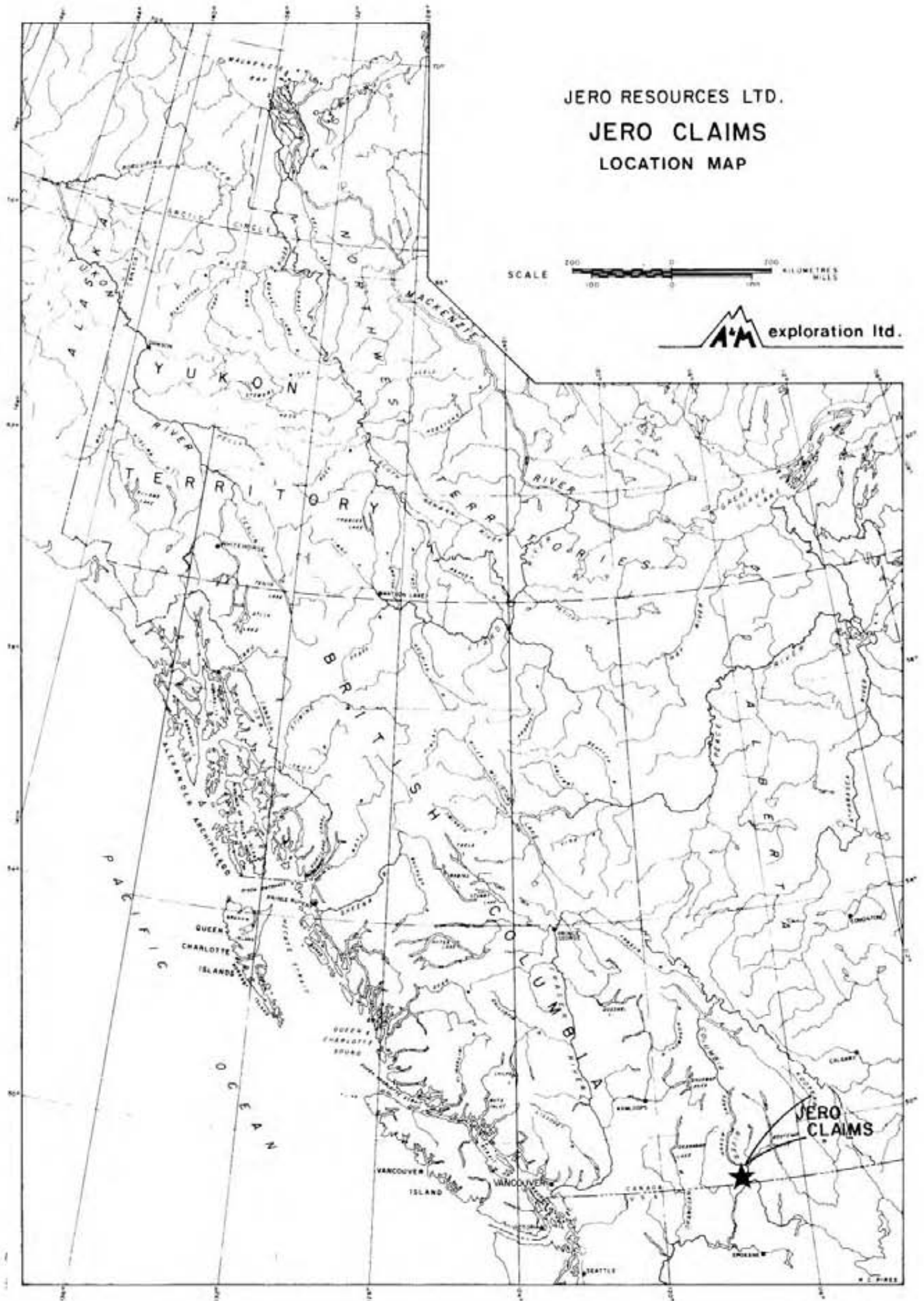
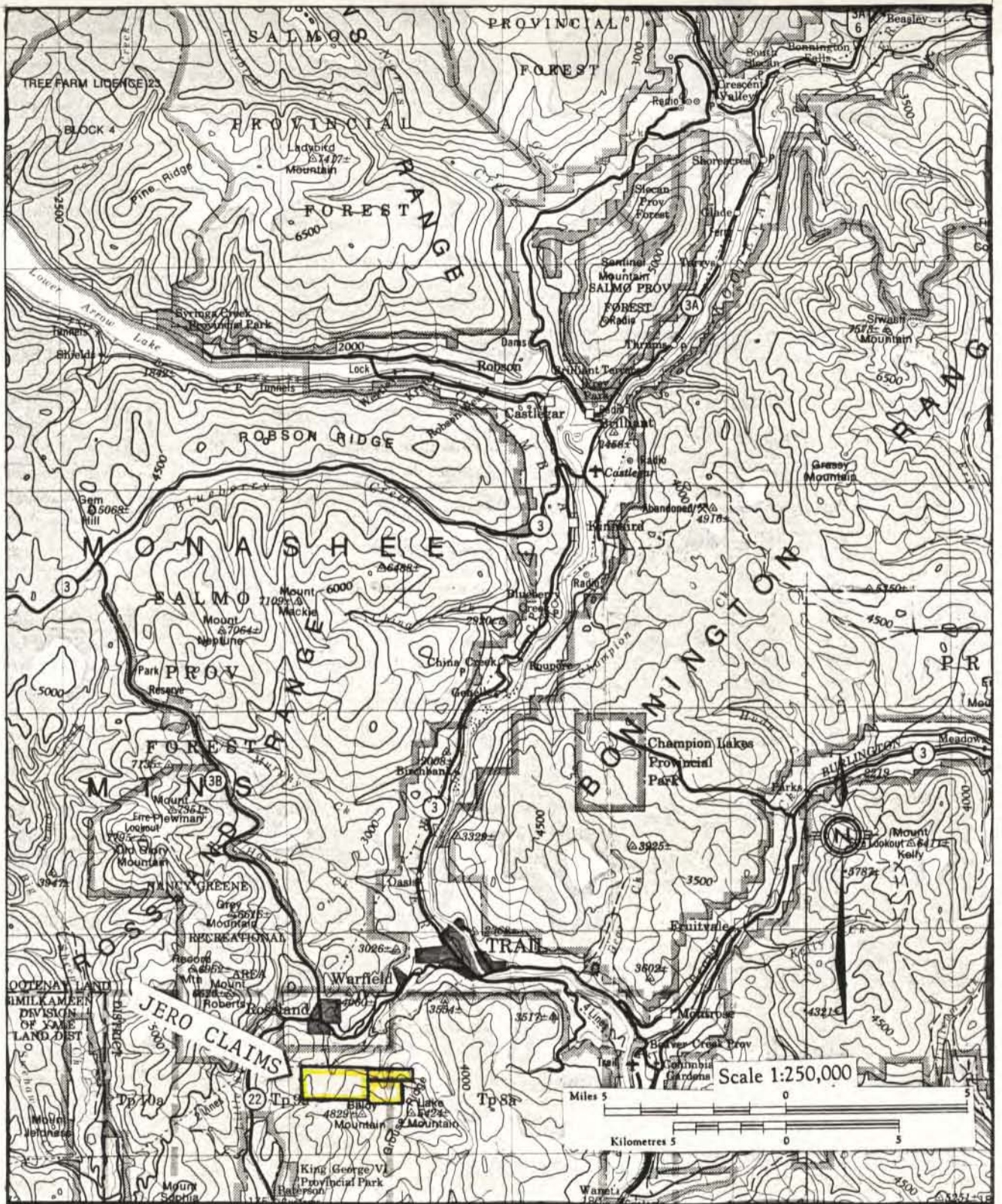


FIGURE - 1

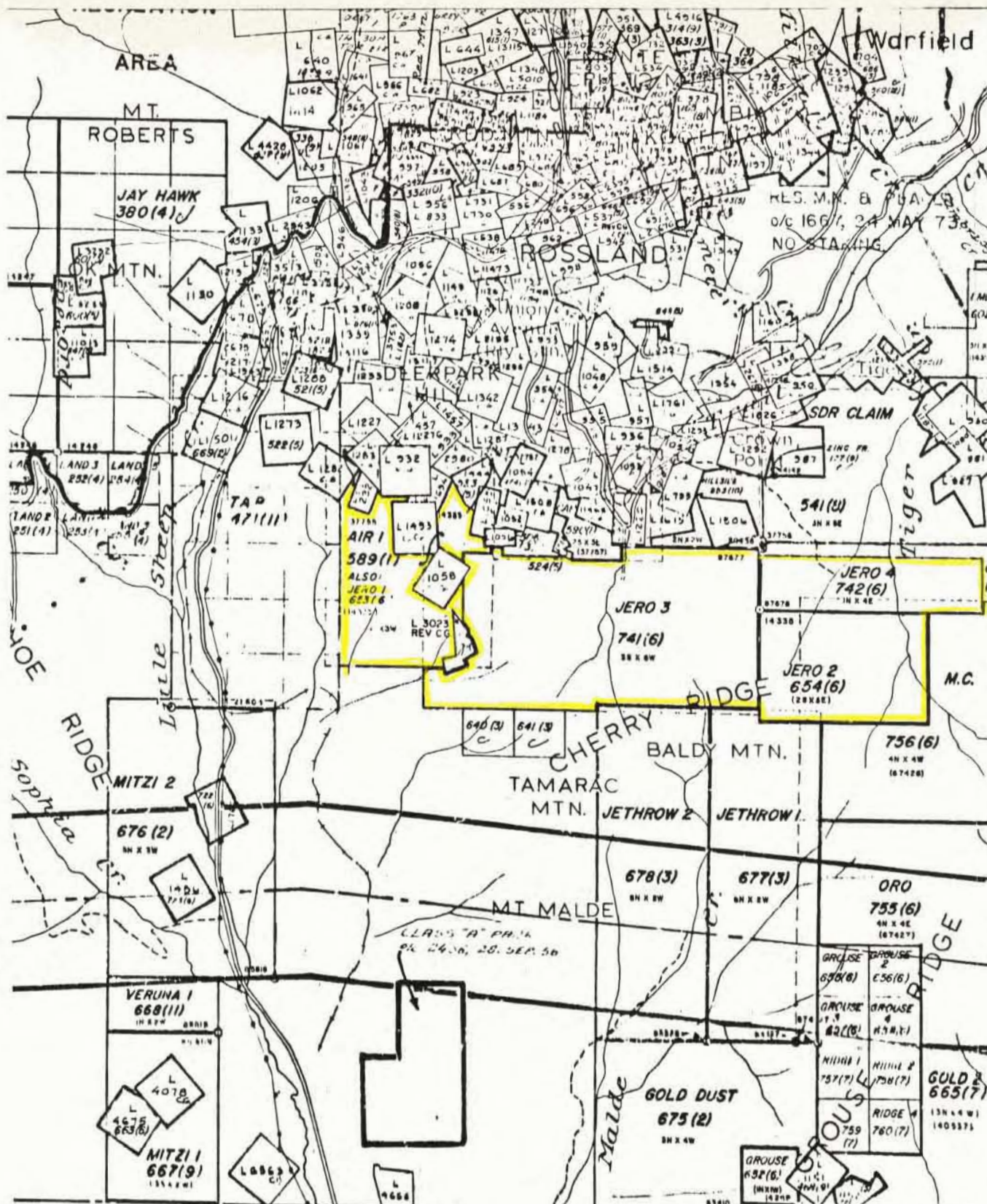


N.T.S. 82 F

JERO RESOURCES LTD.  
**ACCESS MAP**  
 JERO CLAIMS

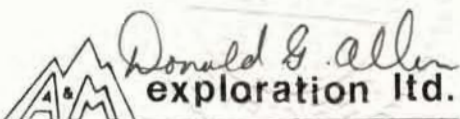
Trail Creek Mining Division - British Columbia





JERO RESOURCES LTD.  
**CLAIM MAP**  
 JERO CLAIMS

Trail Creek Mining Division - British Columbia





and 3,300,000 ounces of silver from 5,915,000 tons of ore with an average grade 0.47 ounces of gold per ton and 0.6 ounces of silver per ton and 1% copper. Most production came from four deposits (Le Roi, Centre Star, War Eagle and Josie) in the core of the camp. Molybdenite was produced at Red Mountain during the period 1966 to 1971.

## GEOLOGY

### Regional Geology

The Rossland area lies in the Nelson Map area, 82F (west half), the geology of which as been described by Little (1960). The geology of the Rossland Mining Camp has been well documented by Drysdale (1915), Bruce (1917), Gilbert (1948), Fyles (1970), Fyles et al (1973), Thorpe (1973) and Little (1982). In summary, the gold deposits of the Rossland camp occur in a complex environment in which major volcanic, sedimentary and intrusive rocks occur. Oldest rocks are the Carboniferous Mt. Roberts Formation which consists of siltstone, sandstone, conglomerate and minor limestones. They are overlain by volcanic rocks and interbedded sediments of the Jurassic Rossland Group. Irregular bodies and dikes of augite porphyry was apparently coeval with the Rossland volcanics. These rocks are intruded by three groups of plutonic rocks, the Rossland monzonite, the Trail batholith (granodiorite), Coryell intrusions (syenite), Rainy Day stock (quartz diorite) and

a large number of dikes including diorite, lamprophyre, syenite, and quartz feldspar porphyry.

#### Property Geology

The claim area is largely overburden covered. Outcrops are confined to road cuts and a few steeper slopes. According to Fyles (1970 - see figure 4) the claim area is underlain by sedimentary and volcanic rocks of the Rosslund Group (unit 2c, d, and e) and augite porphyry (unit 2f). Examination of a few outcrops on the road across the Jero 2 and 4 claims confirmed the presence of both argillite and greenstone, both containing abundant disseminated pyrrhotite. The main rock types observed were northeast-trending dikes of quartz-feldspar porphyry which, because they were more resistant to weathering, form small but prominent ridges.

#### Ore Deposits

The gold-copper deposits of the Rosslund camp are predominantly pyrrhotite-rich quartz veins containing up to 70% sulfides. They are localized by east and north-trending faults where they intersect or lie along contacts of highly competent rocks such as augite porphyry and diorite porphyry. Thorpe (1973) has defined three zones; central, intermediate and outer. Veins of the central zone have a high chalcopyrite content and Au:Ag ratio, veins in the outer zone contain sphalerite, galena and tetrahedrite and have a lower Au:Ag ratio. Veins in the intermediate zone are characterized by a wide range of mineralogies including pyrrhotite,

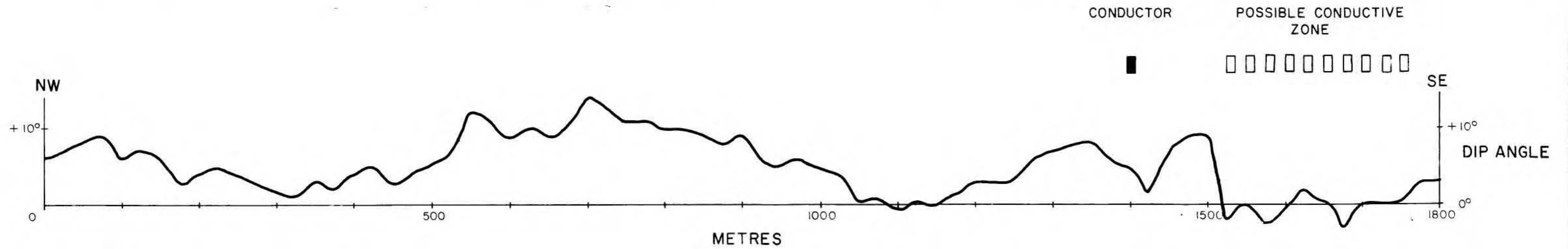
chalcopyrite, arsenopyrite, pyrite, molybdenite, cobaltite, gold, bismuth and bismuthinite.

The molybdenite deposits on Red Mountain occur in brecciated granodiorite and hornfelsic and skarny sedimentary rocks of the Mount Roberts formation. Mineralization consists of irregularly distributed disseminations and veinlets of pyrrhotite, pyrite, magnetite, molybdenite, scheelite and chalcopyrite (Eastwood, 1966; Fyles, 1967; Hainsworth, 1966).

The Jero claims lie in the outer zone and are situated immediately south of the Lily May, Bluebird and Mayflower prospects.

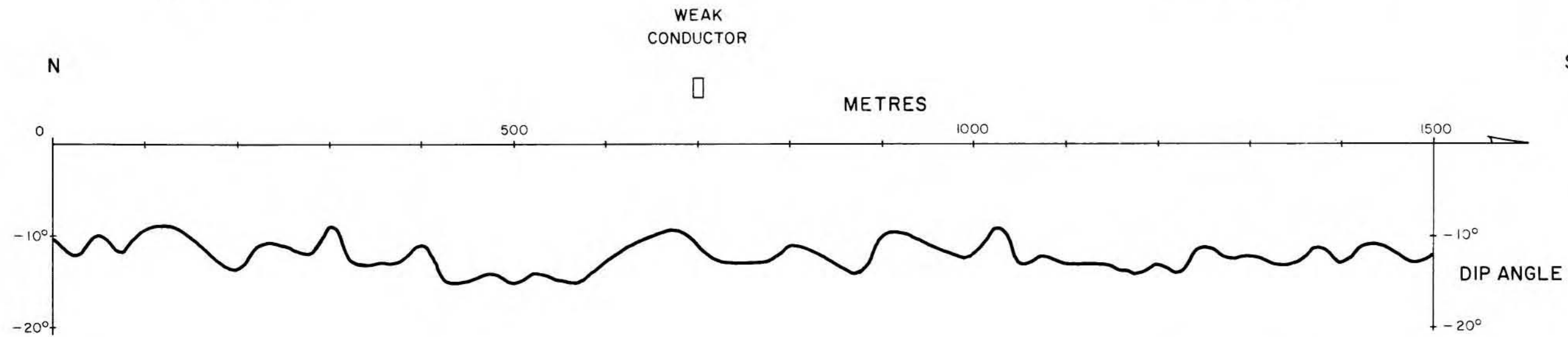
#### GEOPHYSICAL RESULTS

Two VLF-EM lines were run across the Jero 2 and 4 claims to carry out preliminary evaluation of airborne electromagnetic anomalies obtained by Sheldrake (1981). Preliminary results, as interpreted by D.R. MacQuarrie, consulting geophysicist, indicate two possible weak conductors (figure 5) that in general correlates with those obtained by Sheldrake. The data indicates the presence of a wide conductive zone which generally correlates that obtained by Sheldrake.



SCALE = 1 : 5,000

VLF-EM PROFILE LINE 1  
STATION: SEATTLE



VLF-EM PROFILE LINE 2  
STATION: CUTLER, MAINE.

NOTE: See figure 4 (GEOLOGY AND GEOCHEMISTRY) for VLF-EM line locations.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,441

JERO RESOURCES LTD.  
JERO CLAIMS  
TRAIL CREEK MINING DIVISION - BRITISH COLUMBIA

*Donald G. Allen*

VLF - EM PROFILES

Figure 5

GEOCHEMISTRY

Three lines of geochemical sampling were undertaken to carry out preliminary assessment of the claim area. Soil material sampled consists mainly of fine glacial till taken at depths of 10 to 25 centimetres, usually well below the A horizon. Samples were shipped to Rossbacher Laboratory Ltd. for multi-element analysis. Anomalous zinc values (150 to 250 ppm), lead (30 to 308 ppm), arsenic (20 to 350 ppm) along with a few weak gold values 20 to 30 ppb occur along the lines surveyed.

Because of the wide spacing, no correlation of anomalous values can be made between lines.

*Donald G. Allen*

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Ph. D. Thesis.

CERTIFICATE

I, Donald G. Allen certify that:

1. I am a Consulting Geological Engineer, resident at 4570 Hoskins Road, North Vancouver, B.C.
2. I am a graduate of the University of British Columbia with degrees in Geological Engineering. (B.A.Sc., 1964; M.A.Sc., 1966)
3. I have been practising my profession since 1964.
4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
5. This report is based on fieldwork carried out personally, and by D. Cuvelier and A. Geoghegan.

August 29, 1983  
Vancouver, B.C.

*Donald G. Allen*

D.G. Allen,  
P. Eng. (B.C.)

APPENDIX I  
ANALYTICAL RESULTS



# Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

**A & M EXPLORATION LTD.**

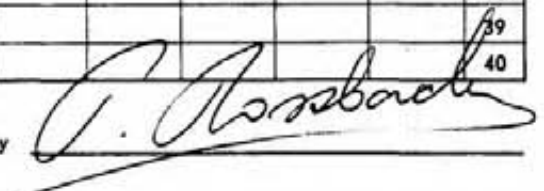
TO: 4570 HOSKINS ROAD  
NORTH VANCOUVER, B.C. V7K 2R1

CERTIFICATE NO. 83 150 - 1  
INVOICE NO. 3172  
DATE ANALYSED JUNE 10, 83  
PROJECT 161

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	As	P <sup>125</sup> Au			No.
01	83 JCL 2		5	48	0.2	186	58	44	10			01
02	3		1	72	0.2	320	96	46	10			02
03	4		1	38	0.2	198	38	36	10			03
04	S 5		1	36	0.2	106	38	24	10			04
05	6		1	22	0.2	144	36	26	10			05
06	7		1	24	0.2	70	16	24	10			06
07	8		1	42	0.2	72	20	78	10			07
08	9		1	36	0.2	112	38	36	10			08
09	10		1	42	0.2	130	48	32	10			09
10	83 JCS 11		1	26	0.2	192	42	26	10			10
11	12		1	28	0.2	222	62	40	10			11
12	13		1	18	0.2	256	28	32	10			12
13	14		1	30	0.2	74	16	18	10			13
14	15		1	38	0.2	92	20	30	10			14
15	16		1	38	0.2	168	58	34	10			15
16	17		1	38	0.2	104	30	98	10			16
17	18		1	40	0.2	190	52	40	10			17
18	19		2	60	0.2	174	36	26	10			18
19	20		1	30	0.2	230	54	50	10			19
20	83 JCS 21		1	26	0.2	148	42	24	10			20
21	22		1	24	0.2	100	42	28	10			21
22	23		2	26	0.2	140	48	32	10			22
23	24		1	18	0.2	112	24	14	10			23
24	25		1	22	0.2	210	48	30	10			24
25	26		1	26	0.2	98	26	20	10			25
26	27		1	36	0.2	122	38	22	10			26
27	28		1	58	0.2	190	84	28	10			27
28	83 JCS 29		1	52	0.2	180	52	24	10			28
29	STD E		4	76	0.2	150	22	4	-			29
30												30
31												31
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by



# Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,  
BURNABY, B. C.  
CANADA  
TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

TO: **A & M EXPLORATION LTD.**  
4570 HOSKINS ROAD  
NORTH VANCOUVER, B.C. V7K 2R1

CERTIFICATE NO. **83150-2**  
INVOICE NO. **3172**  
DATE ANALYSED **JUNE 10, 1983**  
PROJECT **161,**

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	As	<sup>PBB</sup> Au				No.
01	83 JGS 150		1	26	0.2	184	28	12	10				01
02	151		1	22	0.2	138	30	16	10				02
03	152		2	36	0.4	358	34	14	10				03
04	153		1	62	0.2	264	66	18	10				04
05	154		3	98	0.6	156	52	26	10				05
06	155		1	44	0.4	348	50	22	10				06
07	156		1	28	0.2	150	28	14	10				07
08	157		1	66	0.2	90	30	10	10				08
09	158		1	72	0.2	670	184	6	10				09
10	83 JGS 159		1	58	0.4	224	32	14	10				10
11	160		1	40	0.2	208	60	24	10				11
12	161		1	40	0.2	168	22	16	10				12
13	162		1	32	0.2	108	30	26	10				13
14	163		1	58	0.4	240	94	70	10				14
15	164		1	24	0.2	130	76	18	10				15
16	165		1	26	0.2	108	22	20	10				16
17	166		1	26	0.4	96	14	18	10				17
18	167		1	32	0.4	70	12	18	10				18
19	168		1	22	0.4	94	14	16	10				19
20	83 JGL 169		1	52	0.2	420	48	12	10				20
21	3 170		1	50	0.2	62	16	74	10				21
22	171		1	24	0.4	74	10	18	10				22
23	172		1	30	0.2	192	16	16	10				23
24	173		1	22	0.2	72	14	20	10				24
25	174		1	24	0.2	68	10	20	10				25
26	175		1	18	0.2	60	8	10	10				26
27	176		1	26	0.2	46	10	14	10				27
28	177		1	46	0.2	102	16	12	10				28
29	178		1	24	0.2	120	14	20	10				29
30	83 JGL 179		1	70	0.4	152	136	8	10				30
31	3 180		1	24	0.2	138	34	20	10				31
32	181		1	16	0.2	180	54	70	10				32
33	182		1	28	0.2	128	58	52	10				33
34	183		1	26	0.2	68	16	28	10				34
35	184		1	20	0.2	90	34	48	10				35
36	185		1	18	0.2	48	14	32	10				36
37	186		1	28	0.2	104	12	350	30				37
38	187		1	24	0.2	230	44	100	10				38
39	83 JGS 188		1	40	0.2	174	80	60	10				39
40								22					40

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*J. Rossbacher*

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GEOCHEMICAL ANALYSTS & ASSAYERS

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## CERTIFICATE OF ANALYSIS

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NORTH VANCOUVER, B.C. V7K 2R1

CERTIFICATE NO. 83150-3

INVOICE NO. 3172

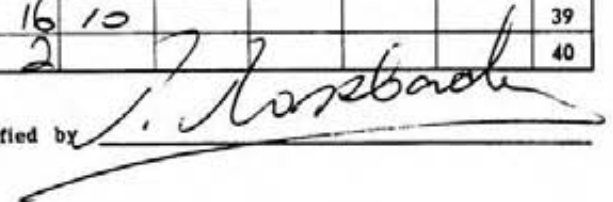
DATE ANALYSED JUNE 10, 1983

PROJECT 161

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	As	<sup>PPB</sup> Au			No.
01	83 JGS 189		1	16	0.2	156	18	22	30			01
02	190		1	20	0.2	124	26	25	10			02
03	191		1	14	0.2	96	12	14	10			03
04	192		1	14	0.2	126	16	14	10			04
05	193		1	26	0.2	102	18	10	10			05
06	194		1	20	0.2	138	28	22	10			06
07	195		1	22	0.2	134	20	20	10			07
08	196		1	20	0.2	156	28	22	10			08
09	197		1	18	0.2	100	22	20	10			09
10	83 JGS 198		1	18	0.2	180	30	26	10			10
11	199		1	26	0.2	92	32	18	10			11
12	200		1	20	0.2	138	24	22	10			12
13	201		1	24	0.4	194	24	20	10			13
14	202		1	20	0.2	82	20	26	10			14
15	203		1	22	0.2	82	12	18	10			15
16	204		1	20	0.2	92	14	20	10			16
17	205		1	18	0.2	124	24	24	10			17
18	206		1	16	0.2	114	40	30	10			18
19	207		1	30	0.2	126	34	42	10			19
20	83 JGS 208		1	22	0.4	114	54	16	10			20
21	209		1	18	0.2	62	8	16	10			21
22	210		1	22	0.2	78	10	32	10			22
23	211		3	40	0.4	442	84	42	10			23
24	212		1	36	0.2	108	24	74	10			24
25	213		1	24	0.2	98	10	18	10			25
26	214		1	26	0.2	82	14	24	10			26
27	215		1	22	0.2	100	10	20	10			27
28	216		1	26	0.4	146	22	22	10			28
29	217		1	20	0.2	96	12	16	10			29
30	83 JGS 218		1	18	0.2	100	8	12	10			30
31	219		1	72	0.2	204	12	440	10			31
32	220		1	20	0.2	148	44	72	10			32
33	221		1	26	0.2	174	42	40	10			33
34	222		1	28	0.2	154	20	24	10			34
35	223		1	26	0.2	152	22	20	10			35
36	224		1	34	0.2	420	98	30	10			36
37	225		2	64	0.8	580	308	80	10			37
38	226		1	28	0.2	148	22	24	10			38
39	83 JGS 227		1	28	0.2	128	42	16	10			39
40								2				40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,  
BURNABY, B. C.  
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TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

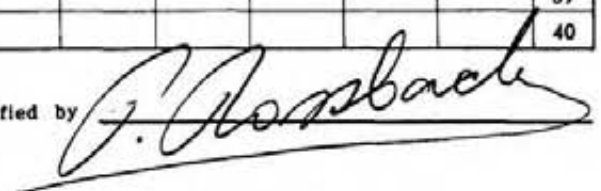
TO: **A & M EXPLORATION LTD.**  
4570 HOSKINS ROAD  
NORTH VANCOUVER, B.C. V7K 2R1

CERTIFICATE NO. **83 150-4**  
INVOICE NO. **3172**  
DATE ANALYSED **JUNE 10, 1983**  
PROJECT **161**

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	As	<sup>103</sup> Pb Au				No.
01	83 JGS 228		1	32	0.2	258	36	42	10				01
02	229		1	36	0.4	124	18	20	10				02
03	230		1	18	0.2	162	26	20	10				03
04	231		1	26	0.2	188	20	22	10				04
05	232		1	24	0.2	60	10	24	10				05
06	233		1	26	0.4	110	8	22	10				06
07	234		1	28	0.2	138	16	24	10				07
08	235		1	16	0.2	80	10	20	10				08
09	236		1	36	0.2	130	18	24	10				09
10	83 JGS 237		1	68	0.2	140	68	28	10				10
11	238		1	22	0.2	92	20	24	20				11
12	239		1	30	0.2	112	14	24	10				12
13	83 JGS 240		1	36	0.2	162	58	30	10				13
14	STD B		30	154	0.8	138	96	20	-				14
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VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by



APPENDIX II  
AFFIDAVIT OF EXPENSES

AFFIDAVIT OF EXPENSES

This will certify that geochemical sampling and VLF-electromagnetic surveys were carried out in June 1983, on the Jero claims, Trail Creek Mining Division, Rossland area, British Columbia to the value of the following:

Mobilization and Fieldwork

Salaries

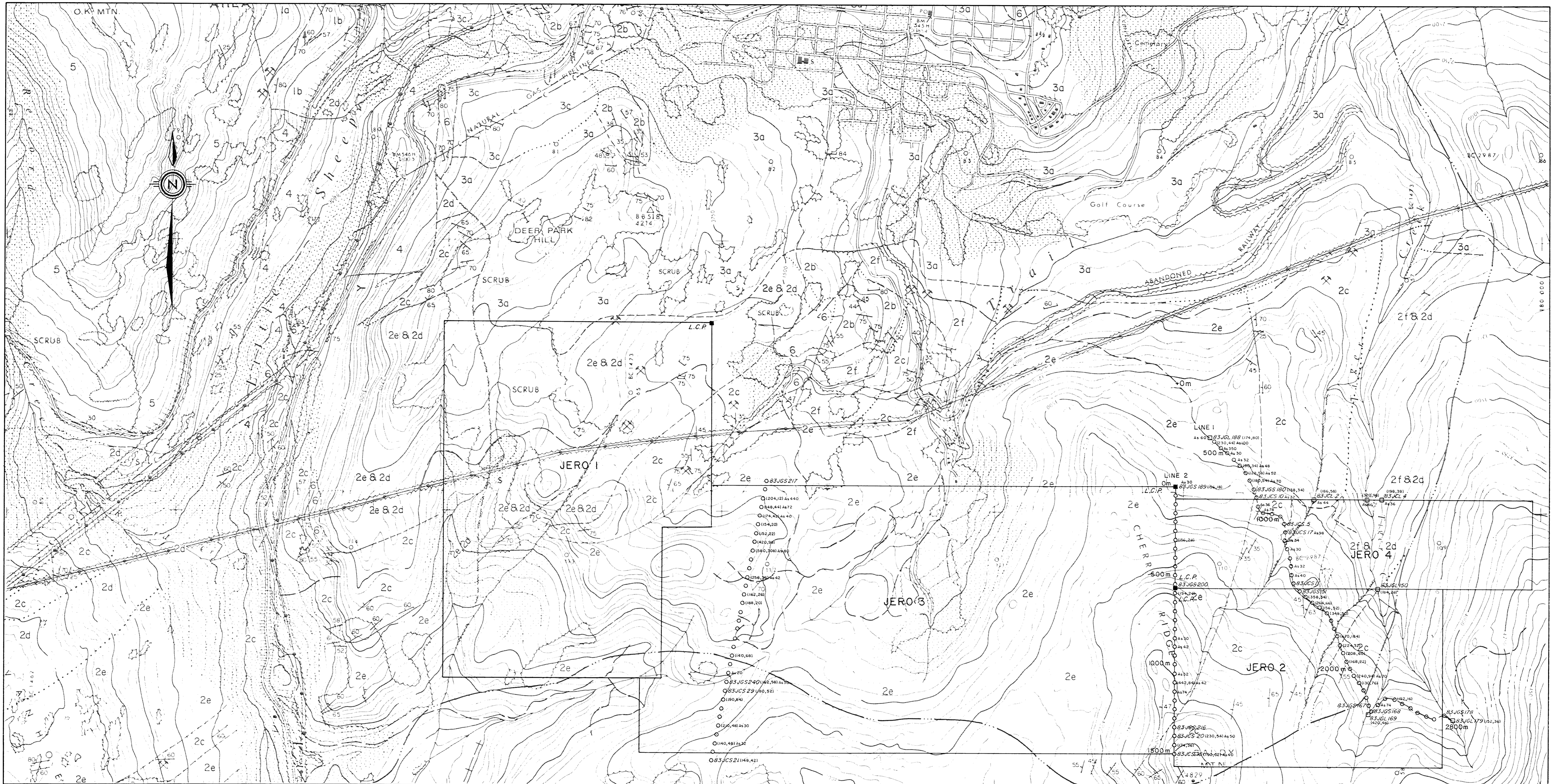
D.G. Allen	3 days @ \$300	\$ 900.00
D. Cuvelier	4 days @ \$100	400.00
A. Geoghegan	4 days @ \$100	400.00
Vehicle rental and travel expenses		534.08
Room and board		317.12
Telephone		19.62
Geochemical analysis		1,285.35
Equipment and supplies		34.15
VLF-EM rental	2 days @ \$25	50.00

Report

D.G. Allen	1 day @ \$300	300.00
Maps, photocopying		55.41
Typing, draughting, compilation		
	21 hours @ \$15	315.00
		<hr/>
	Total	\$4,610.73

Donald G. Allen,  
P. Eng. (B.C.)

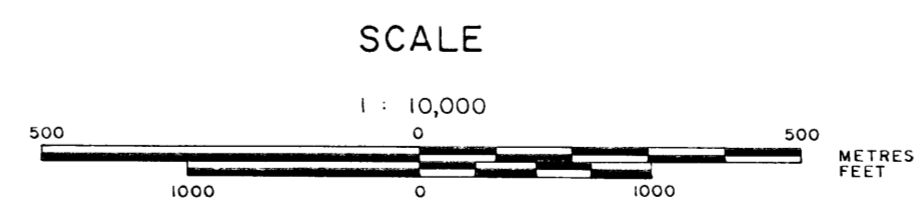
*Donald G. Allen.*



Basemap & Geology after Fyles (1970)

**LEGEND**

- |  |   |  |
|--|---|--|
| AREAS OF LITTLE OR NO OUTCROP                  | AUGITE PORPHYRY SILLS AND DYKES                     | ATTITUDE OF BEDDING  |
| CORYELL INTRUSIONS                             | GREEN VOLCANIC SANDSTONE, CONGLOMERATE, AND BRECCIA | VEINS AND MINERALIZED JOINTS   |
| SYENITE AND MONZONITE                          | MASSIVE GREENSTONE                                  | BLOCK FAULT  |
| OK VOLCANIC GROUP                              | GREY TO BLACK SILTSTONE (PARTLY HORNFELS)           | THRUST FAULT   |
| LATITE TRACHYTE AND INTERLAYERED CLASTIC ROCKS | BANDED HORNFELS                                     | ADIT   |
| SERPENTINE                                     | BRECCIA COMPLEX                                     | PROSPECT   |
| SERPENTINE                                     | DARK GREY SILTSTONE                                 | LIMIT OF GEOLOGICAL MAPPING  |
| NELSON PLUTONIC ROCKS                          | CONGLOMERATE  | SOIL SAMPLE SITE, SAMPLE NUMBER; PPM Zn, PPM Pb.   |
| RAINY DAY STOCK - QUARTZ MONZONITE             |   | SILT SAMPLE SITE, SAMPLE NUMBER; PPM Zn, PPM Pb.   |
| TRAIL BATHOLITH - GRANODIORITE                 |   | <b>NOTE:</b> Only Zn values $\geq$ 150ppm, As, Pb values $\geq$ 30ppm, Au values $\geq$ 20ppb plotted. |
| ROSSLAND MONZONITE                             |   |  |



JERO RESOURCES LTD  
**JERO CLAIMS**  
 TRAIL CREEK MINING DIVISION - BRITISH COLUMBIA

**GEOLOGY AND GEOCHEMISTRY**

**11,441**  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

**AM** exploration ltd.

Figure 4