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M.R. No. ....

Report on the  
Percussion Drilling Program  
on the  
Parrott Lake Prospect  
Irk Claims, Houston Area  
Omineca Mining Division  
93 L/ 2 E  
Latitude 54° 12' - Longitude 126° 38'  
Asarco Exploration Company of Canada, Limited  
(Owner and Operator)  
by  
D. H. Olson  
March, 1980

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
1954  
Part 1  
1 of 2

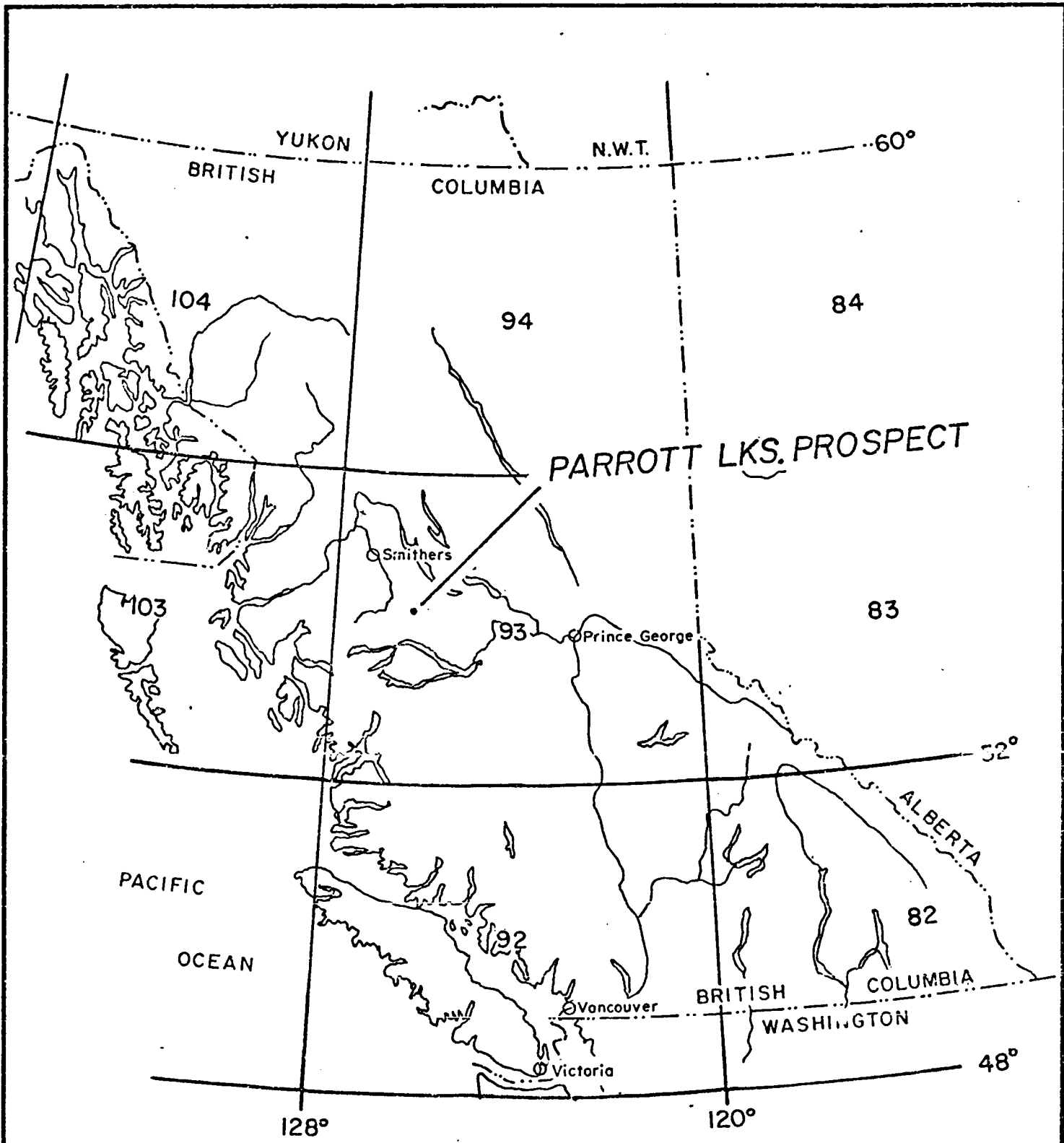
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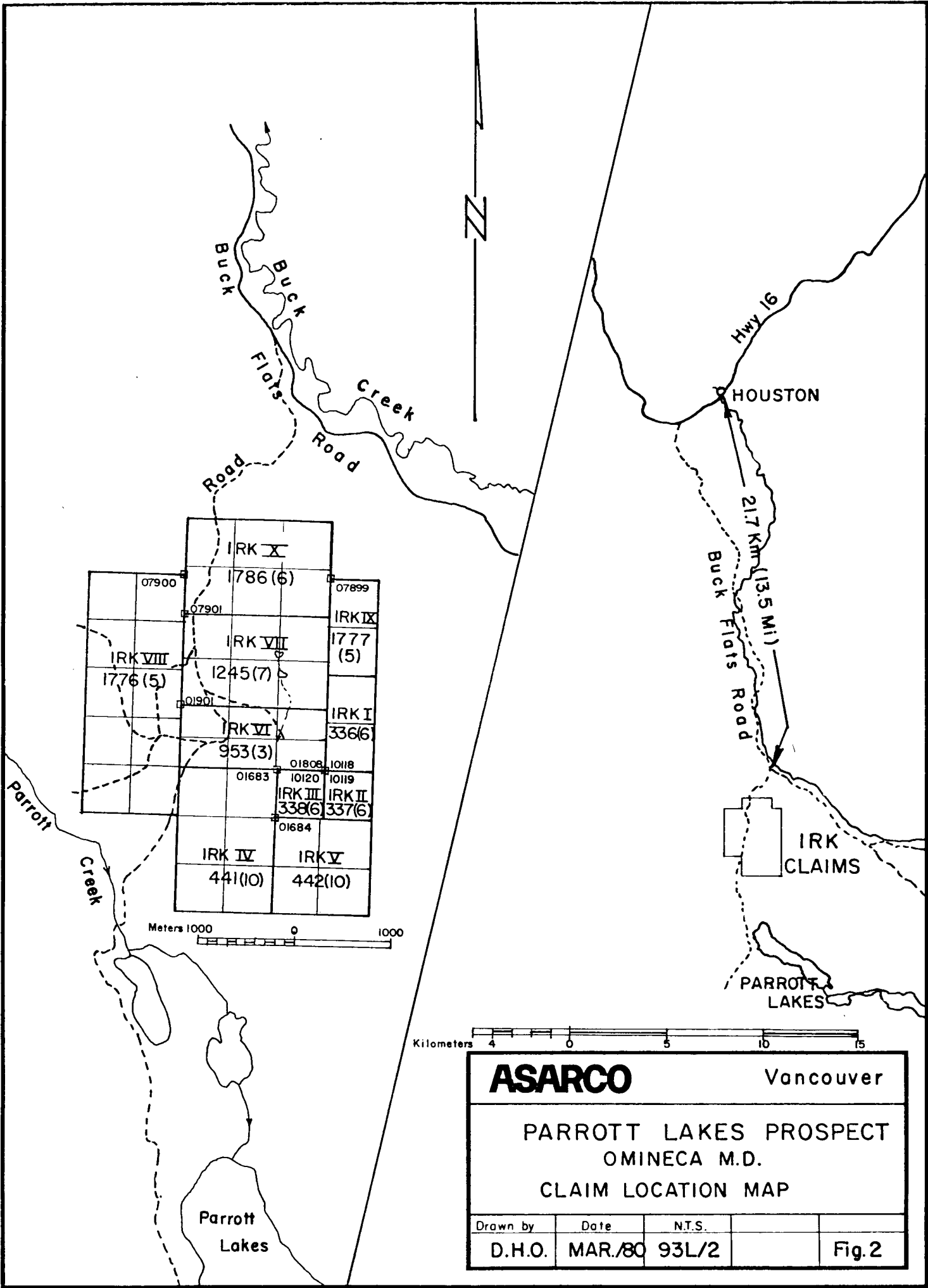
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<b>ASARCO</b>			Vancouver	
<b>PARROTT LKS. PROSPECT</b>				
<b>LOCATION MAP</b>				
Drawn by	Date	NTS.		Figure
D.H.O.	MAR./80	93L/2E		1



<b>ASARCO</b>			Vancouver	
PARROTT LAKES PROSPECT OMINECA M.D. CLAIM LOCATION MAP				
Drawn by	Date	N.T.S.		
D.H.O.	MAR./80	93L/2		Fig. 2

Introduction

A percussion drilling program was carried out on the IRK VII and IRK VIII claims from November 5th - 15th and November 17th - 18th, 1979 by Asarco Exploration Company of Canada, Limited. The purpose of the drilling program was to investigate Zn, Pb, Ag and Cu soil anomalies located within the IRK VII and IRK VIII claims.

The percussion drilling was contracted to Lorne Spence Enterprises of Smithers, B.C. A Nodwell mounted Atlas Copco drill was used to drill holes approximately 5 cm in diameter, M. F. Lancaster of Asarco supervised the program and was assisted by Dale Wallster.

Location and Access

The Parrott Lakes Prospect is located approximately 23 km. south of Houston, B.C. near to 54° 12' N and 126° 38' E, in 93 L/2E, Omineca Mining Division.

Claims

<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD</u> <u>NO.</u>	<u>CLAIM GROUP</u>
Irk I	2	336 )	
Irk II	1	337 }	
Irk III	1	338 }	-- PAR GROUP
Irk IV	6	441 }	
Irk V	4	442 }	
Irk VI	6	953 }	
Irk VII	6	1245 }	
Irk VIII	10	1776 }	-- PAR I GROUP
Irk IX	2	1777 }	
Irk X	6	1786 )	

Work Done

Seven percussion drill holes totaling 459 meters were drilled on the Irk VII & VIII claims during the period November 8th - 16th, 1979 inclusive. A total of 26 man days were spent supervising the drilling operation and collecting 144 samples of percussion drill cuttings at 3 meter intervals. These samples were analysed for Cu, Pb, Zn and Ag. Construction of 1,000 meters of roadway, 3.5 meters wide provided access to the drill sites.

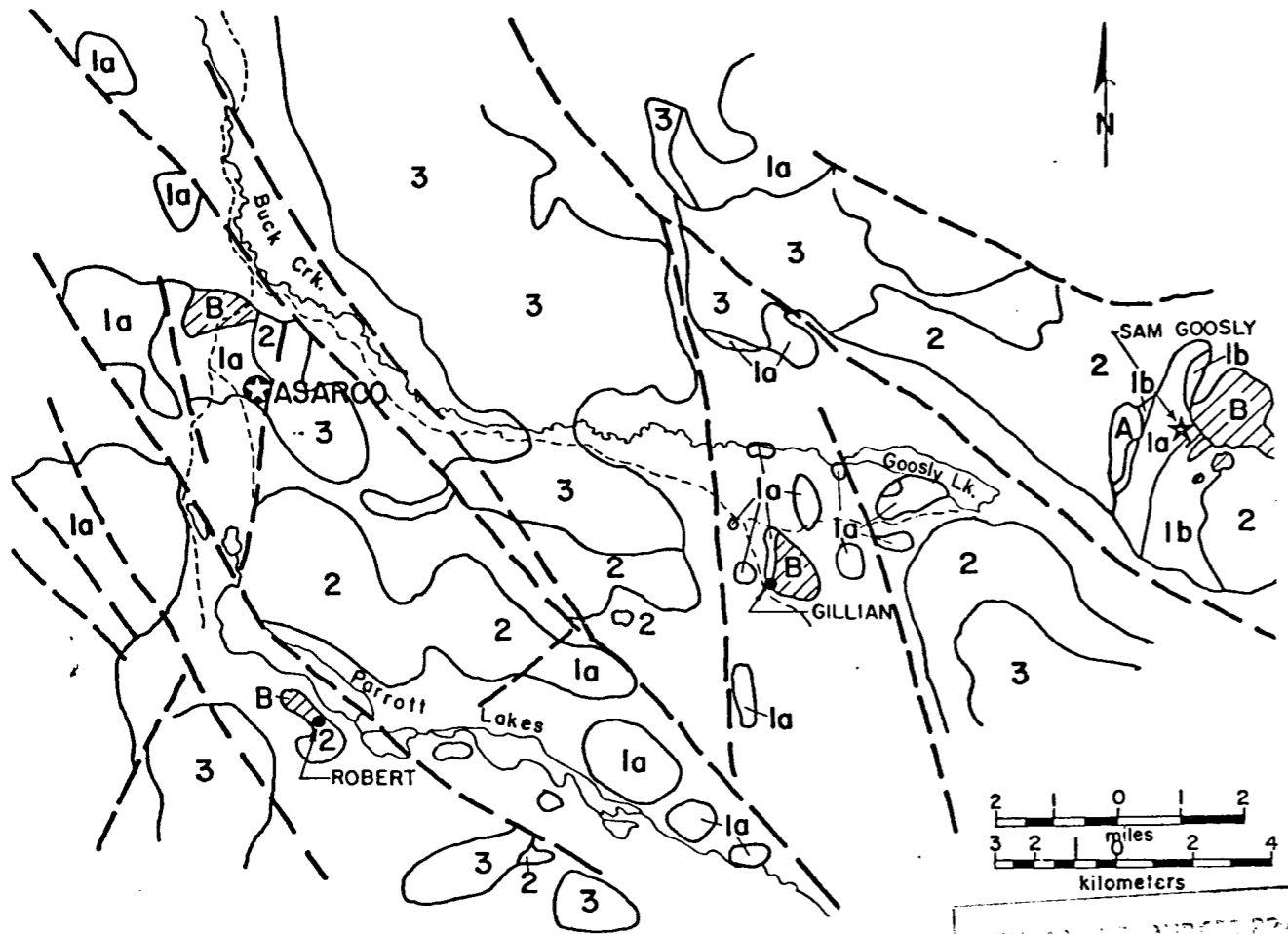
Cost of the drilling program is itemized in Appendix "A". Assay data is listed in Appendix "B".

Geology (Figure 3 - revised)

A comprehensive regional geologic setting is given in an earlier report dated November 30, 1978 and written by D. G. MacIntyre on the Irk VI claim.

Andesitic to rhyolitic flow and pyroclastic volcanic rocks believed to be part of the Tip Top Formation of the Cretaceous age are exposed in rock outcrops sparsely distributed over the Irk VII, VIII & IX claims. Weakly pyritized andesitic volcanic rocks occur in the south central portion of the Irk X claim.

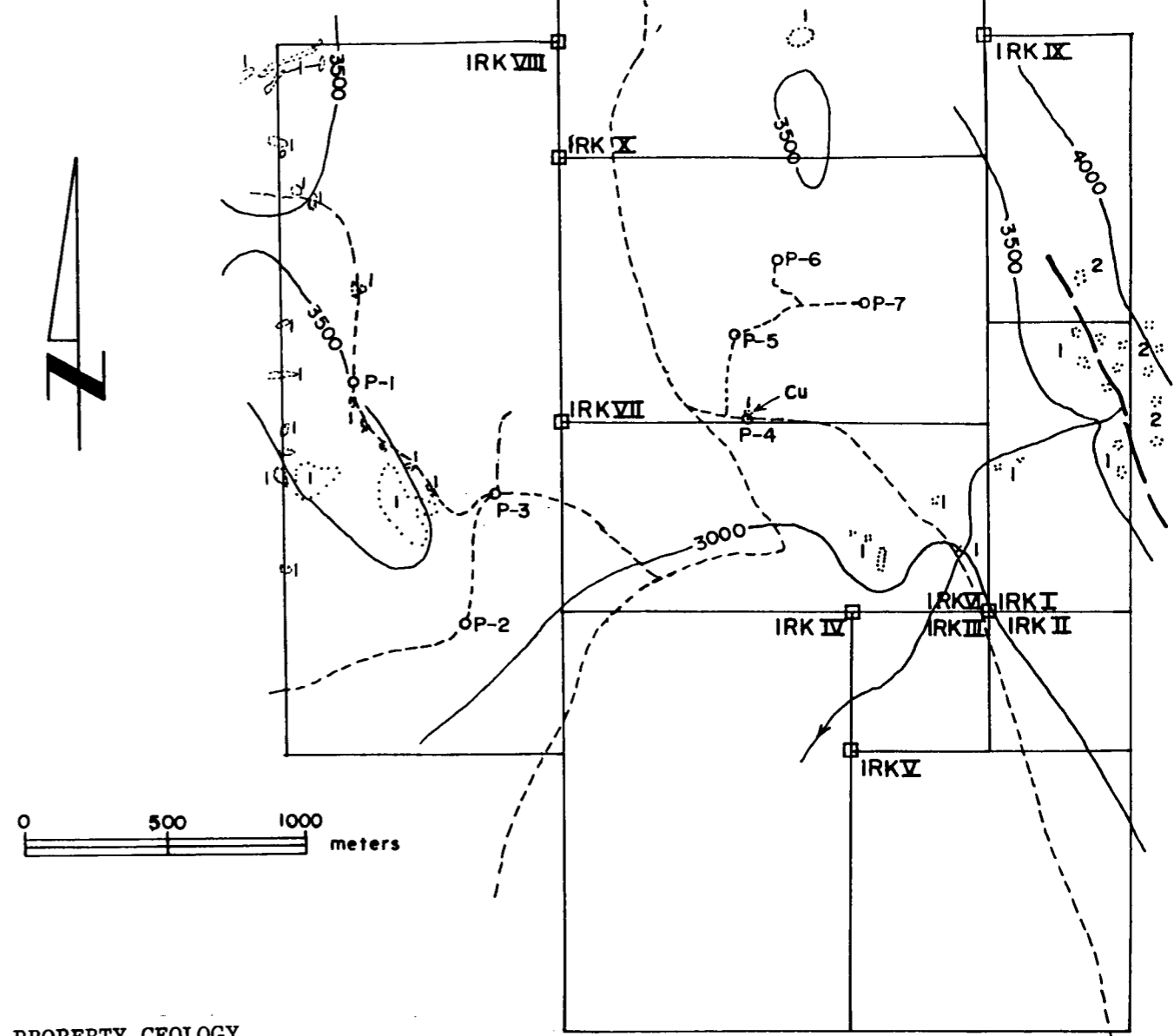
Most of the claims area is covered with a mantle of glacial till. The latest ice movement is believed to have been from west to east.



REGIONAL GEOLOGIC SETTING  
PARROTT LAKES PROSPECT

- QUATERNARY  
□ Alluvium, till, gravel
- EOCENE  
3 Buck Creek Volcanics - andesite and dacite flows, minor basalt  
2 Goosly Lake Volcanics - trachytic flows  
B Goosly Lake Intrusions - syenomonzonite, gabbro  
A Nanika Intrusions - quartz monzonite
- CRETACEOUS  
1 Tip Top Hill Volcanics - a. andesite to rhyolitic flows and pyroclastic rocks. b. sandstone, shale, conglomerate.  
- - - Major Fault  
● Mineral Prospect

1954  
part 1  
1 of 2



PROPERTY GEOLOGY

- EOCENE  
2 Buck Creek Volcanics - massive amygdaloidal to vesicular basalt, andesite and dacite plus related pyroclastic rocks.
- CRETACEOUS  
1 Tip Top Hill Volcanics - mainly red to dark grey crystal lithic-tuff lapilli-tuff, volcanic breccia and lahar.
- 3500 -topographic contour  
○ -outcrop  
- - - -access road  
- - - -limit of Zn anomaly  
□ -claim boundary  
OP-1 -percussion drill hole



**ASARCO** Vancouver

**PARROTT LKS PROSPECT**  
REGIONAL & PROPERTY GEOLOGY

Drawn by	Date	N.T.S.	
D.G.M	9 Nov. 78	93L/2E	Fig. 3

Revised March 1980 D.H.O

### Percussion Drilling Results

Seven percussion drill holes totaling 459 meters were drilled to investigate Zn, Pb, Ag and Cu soil anomalies established earlier in 1979.

See Figure 3 for hole locations. Appendix "B" for assay data and Appendix "C" for logs of percussion holes.

Significant anomalous values for Pb, Zn and locally Ag were obtained from percussion drill holes P-5 and P-6 only. Within hole P-5 from bedrock surface at 6 meters to the bottom of the hole at 60.9 meters, the anomalous values range from 380 - 2700 ppm for Zn, 142 - 800 ppm for Pb and up to 1.0 ppm for Ag. In hole P-6 anomalous values for Zn range from 410 to 1000 ppm from 18.3 to 60.9 meters, while anomalous values for Pb occur from 48.8 to 60.9 meters and range from 114 to 122 ppm. Values for Ag in hole P-6 are not anomalous. Erratic anomalous Ag values up to 2.2 ppm occur in holes P-2, P-3 and P-7.

Pyrite was the only sulfide mineral noted while magnetite occurred much less frequently in samples from the percussion drill holes. Hematite was noted in several rock outcrops and is evident in holes which produced a red coloured water return during the drilling process.

Rocks penetrated by the percussion drill varied from gray to red-brown crystal tuffs, lapilli tuffs, volcanic breccia and lahars of the Cretaceous Tip Top Hill Formation.



Conclusions

Anomalous Zn-Pb-Ag values obtained from percussion holes P-5 and P-6 indicate the presence of Zn-Pb-Ag mineralization in the rocks in the vicinity of these holes and to some degree has confirmed anomalous Zn-Pb values in the soils. Additional exploration is warranted. Future exploratory work should encompass more detailed soil sampling followed by drilling peripheral to holes P-5 and P-6.



D. H. Olson



DHO/jg

References

- Church, B.N., 1970; B.C. Department of Mines and Petroleum Resources, GEM 1970, pp. 119 - 125.
- MacIntyre, D.G., November 1978: Assessment Reports, Soil Geochemistry - Parrott Lakes Prospect - Irk VI claim.
- Gale, R.E., August 15, 1979: Assessment Report - Soil Geochemistry, Parrott Lakes Prospect, Irk VII, VIII, IX and X claims.
- Mullan, Ashton, W. Report on Induced Polarization and Resistivity Survey on the Parrott Lakes Prospect, November 27, 1979.

Appendix "A"

1979 Statement of Expenditures

Parrott Lakes Prospect - Omineca Mining Division

Irk VII & Irk VIII Claims

Labour

M. Lancaster - Nov. 5-15 & 17-18, 1979 (13 days)	\$ 1,419.60
D. Wallster - Nov. 5-15 & 17-18, 1979 (13 days)	884.07

Assaying

Acme Analytical Laboratories - Vancouver, B.C. 156 Samples for Cu, Pb, Zn, Ag and Au	837.45
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Asarco Vehicle

1850 miles @ 35¢ per mile	647.50
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Meals & Accomodation

2 Men, 13 days	1,023.91
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Drill Road Construction

Lorne Spence Enterprises - Smithers, B.C. 1,000 X 3.5 meters - Dozer 24 Hrs. @ \$30.00/hr.	720.00
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Drilling

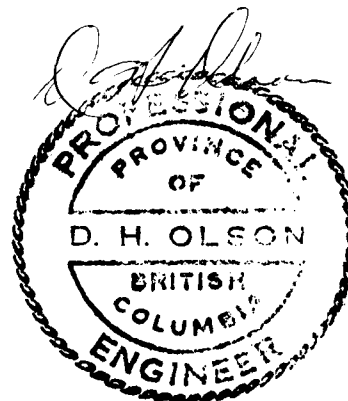
Lorne Spence Enterprises Ltd. - Smithers, B.C.		
Mobilization and Demobilization	\$ 530.00	
Water Lines	375.00	
Drilling 459 meters	<u>6000.00</u>	6,905.00

Drafting & Report Preparation

3½ Days @ \$100.00/day	<u>350.00</u>
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Total Expenditures	<u>\$12,787.53</u>
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+ I. P. 2833.22





To: American Smelting & Refining Co.,  
504 - 535 Thurlow St.,  
Vancouver, B.C.  
V6E 3L2

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

APPENDIX "B"

R.E.G.

File No. 0696

Type of Samples P. cuttings

Disposition PARROT LAKE

<sup>DEC 4 7 1979</sup>  
**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.	Cu	Pb	Zn	Ag				
P-1 10 - 20	29	50	250	.1	DATE RECEIVED DEC 10 1979 ASARCO V. O.			1
20 - 30	7	12	64	.1				2
30 - 40	4	13	18	.1				3
40 - 50	5	10	16	.1				4
50 - 60	6	10	17	.1				5
60 - 70	4	9	15	.1				6
70 - 80	4	13	19	.1				7
80 - 90	3	10	22	.2				8
90 - 100	3	10	34	.1				9
100 - 110	4	11	64	.1				10
110 - 120	3	21	46	.1				11
120 - 130	6	15	54	.1				12
130 - 140	6	16	47	.1				13
140 - 150	3	17	34	.1				14
150 - 160	5	12	36	.1				15
160 - 170	3	15	44	.1				16
170 - 180	5	14	39	.1				17
180 - 190	7	13	54	.1				18
P-1 190 - 200	6	12	43	.1				19
								20
P-2 10 - 20	12	11	134	1.3			21	
20 - 30	11	15	120	.7			22	
30 - 40	9	12	100	.3			23	
40 - 50	32	11	82	.4			24	
50 - 60	9	10	98	.4			25	
60 - 70	11	10	106	.5			26	
70 - 80	8	8	80	.2			27	
80 - 90	9	11	102	.3			28	
90 - 100	9	10	84	.2			29	
100 - 110	76	10	110	.8			30	
110 - 120	43	10	86	.6			31	
120 - 130	58	11	110	.9			32	
130 - 140	23	12	106	.1			33	
140 - 150	27	9	94	.4			34	
150 - 160	13	11	92	.3			35	
160 - 170	5	4	54	.1			36	
170 - 180	10	10	94	.2			37	
180 - 190	24	12	112	.2			38	
P-2 190 - 200	21	10	90	.2			39	
							40	

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Nov. 29, 1979

DATE REPORTS MAILED Dec. 7, 1979

ASSAYER Dean Toye

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



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852 E. Hastings St., Vancouver, B. C. V6A 1R8

phone: 253 - 3158

APPENDIX "B"

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Disposition PARROT LAKE

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Cu	Pb	Zn	Ag						
P-3 10 - 20	23	48	280	.4						1
20 - 30	24	45	310	.8						2
30 - 40	24	24	146	.3						3
40 - 50	16	17	120	.1						4
50 - 60	17	13	88	.1						5
60 - 70	15	12	68	.2						6
70 - 80	14	10	62	.1						7
80 - 90	16	12	64	.1						8
90 - 100	19	11	60	.1						9
100 - 110	16	12	76	.2						10
110 - 120	12	9	80	.3						11
120 - 130	18	9	86	.4						12
130 - 140	30	8	104	.5						13
140 - 150	44	7	100	1.2						14
150 - 160	19	9	94	.3						15
160 - 170	17	8	96	.1						16
170 - 180	54	8	92	.3						17
180 - 190	50	10	106	.2						18
-3 190 - 200	18	9	92	.1						19
P-4 10 - 20	28	27	200	.4						20
20 - 30	48	26	220	.4						21
30 - 40	64	27	250	.8						22
40 - 50	230	15	128	.8						23
50 - 60	50	24	280	.9						24
60 - 70	14	31	290	.1						25
70 - 80	18	11	94	.4						26
80 - 90	62	19	172	.4						27
90 - 100	37	18	88	.7						28
100 - 110	46	164	150	.6						29
110 - 120	96	60	184	.5						30
120 - 130	78	31	122	.4						31
130 - 140	92	36	118	.3						32
140 - 150	98	34	104	.5						33
150 - 160	68	28	96	.5						34
160 - 170	52	21	72	.6						35
170 - 180	52	22	98	.8						36
P-4 180 - 190	50	18	140	.1						37
										38
										39
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Disposition PARROT LAKE

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Cu	Pb	Zn	Ag						
P-4 190 - 200	50	18	128	.2						1
200 - 210	68	15	104	.3						2
210 - 220	54	15	108	.4						3
220 - 230	47	16	110	.4						4
230 - 240	80	14	118	.7						5
240 - 250	54	12	120	.6						6
250 - 260	68	17	112	.5						7
260 - 270	78	18	150	.5						8
270 - 280	82	16	156	.3						9
280 - 290	50	18	130	.5						10
P-4 290 - 300	68	27	150	.5						11
										12
P-5 10 - 20	27	78	280	.7						13
20 - 30	18	235	460	.4						14
30 - 40	12	148	380	.7						15
40 - 50	15	230	480	.5						16
50 - 60	18	510	890	.5						17
60 - 70	18	600	1400	.4						18
70 - 80	15	450	860	.4						19
80 - 90	18	700	1450	.3						20
90 - 100	17	800	1700	.5						21
100 - 110	13	730	1600	1.0						22
110 - 120	12	710	1600	.8						23
120 - 130	12	700	1800	.8						24
130 - 140	13	560	2700	.7						25
140 - 150	12	290	1400	.4						26
150 - 160	14	182	870	.2						27
160 - 170	12	200	770	.4						28
170 - 180	10	215	680	.2						29
180 - 190	11	160	780	.1						30
P-5 190 - 200	14	142	720	.2						31
										32
P-6 10 - 20	35	41	270	.3						33
20 - 30	34	38	290	.1						34
30 - 40	40	37	300	.3						35
40 - 50	29	32	270	.1						36
50 - 60	28	33	270	.1						37
60 - 70	56	48	410	.1						38
P-6 70 - 80	46	54	420	.2						39
										40

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APPENDIX "B"

File No. 0696

Type of Samples P. Cuttings

Disposition PARROT LAKE

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Cu	Pb	Zn	Ag						
P-6 80 - 90	36	56	410	.1						1
90 - 100	40	72	480	.1						2
100 - 110	42	122	530	.2						3
110 - 120	56	90	460	.1						4
120 - 130	27	70	430	.1						5
130 - 140	58	68	600	.1						6
140 - 150	24	84	620	.1						7
150 - 160	45	96	860	.1						8
160 - 170	68	122	1000	.2						9
170 - 180	36	112	940	.1						10
180 - 190	22	114	870	.1						11
P-6 190 - 200	36	100	710	.2						12
										13
P-7 10 - 20	2	24	120	.2						14
20 - 30	58	23	124	.4						15
30 - 40	12	12	96	.1						16
40 - 50	58	14	104	.1						17
50 - 60	33	16	124	1.3						18
60 - 70	29	13	112	.2						19
70 - 80	30	14	102	.1						20
80 - 90	38	14	96	.1						21
90 - 100	66	15	150	.1						22
100 - 110	25	16	112	.1						23
110 - 120	43	10	116	.1						24
120 - 130	46	10	118	.2						25
130 - 140	52	14	96	.1						26
140 - 150	41	13	102	.1						27
150 - 160	49	10	84	.2						28
160 - 170	42	17	156	.1						29
170 - 180	65	20	182	.4						30
180 - 190	82	28	280	.7						31
190 - 200	94	27	300	1.1						32
P-7 200 - 210	184	26	230	2.2						33
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APPENDIX "B"

File No. 0696

Type of Samples Composite

**GEOCHEMICAL ASSAY CERTIFICATE**

Disposition PARROT LAKE

5

SAMPLE No.	Au																				
P-4 70 - 100	.005																				1
100 - 150	.010																				2
150 - 200	.005																				3
200 - 250	.005																				4
250 - 300	.005																				5
P-5 100 - 120	.005																				6
																					7
P-6 30 - 80	.005																				8
80 - 110	.005																				9
																					10
P-7 30 - 80	.005																				11
80 - 130	.005																				12
130 - 180	.005																				13
180 - 210	.005																				14
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