

PROSPECTING REPORT
on the
MOONLIGHT CLAIMS
in the
GREENWOOD MINING DIVISION
N.T.S. 82E/7W

82ESE
066
Gateway

001217

'49°28'N latitude and 118°56'W longitude

owned by:

PETER PETO,
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Penticton, B.C. V2A 5L5

written by:

PETER PETO, Ph.D.

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,972

INTRODUCTION

The Moonlight claim comprises 6 units recorded as 3468(2) on 7 February 1983. It is situated on the south slope of Beaverdell Creek valley some 14 km by road east of the town of Beaverdell (Figure 1). The claims cover an area once staked as the "Gateway, Golden Dawn, Moonlight and Alameda" as described by L. Reinke in 1915 (G.S.C. Memoir 75 p. 134). The property was said to host gold and copper mineralization as exposed in 13 old workings. The author spent 5 June, 5 and 6 August, 1983 prospecting the claim area for these workings and collected 7 rock chip samples, from those workings he found, for assay.

PROPERTY GEOLOGY

The claims cover a contact zone between quartz diorites belonging to the Beaverdell intrusion and hornfelsed tuffs and limestones of the Wallace group. Mineralization, which consists of stringers and impregnations of pyrite and pyrrhotite in tuffs or pyrite and chalcopyrite in quartz veins adjacent to granite porphyry dykes, seem to be found along a prominent, north trending lineament.

TECHNICAL DATA

A total of eight old workings were relocated, sampled and plotted on a 1:5000 scale blow-up from a national topographic map (Figure 2). These samples were submitted to Acme Analytical Laboratories, courtesy of Asarco, for multielement geochemical analysis by ICP, AA and fire assay methods. (see appendix).

A brief description of the samples are given below:

- 51069: pyrite bearing hornfels from 2x3 metre open cut.
- 51070: molybdenite in quartz 1 metre vein cutting granite exposed in 7 metre deep adit.
- 51071: limonitic quartz-carbonate breccia in fault zone (?) exposed in 3m wide open cut.
- 51072: chalcopyrite, pyrite in drusy quartz debris from 3m wide hand dug prospect pit in granite.
- 51073: massive pyrite pod from hornfels in prospect pit.
- 51074: pyrite and chalcopyrite in chalcedonic quartz from dump near 51072.
- 51075: pyrite-clay-carbonate alteration in brecciated hornfels from dump below 10m deep adit.

Analysis of the samples returned very low concentrations of Au, Ag, Hg, Pt and Cu as shown in appendix 1.

CONCLUSIONS

Prospecting located 8 of the 13 workings reported by Reinke (1915) but these returned very low precious metal assays.

The property should be prospected in greater detail in order to locate the remaining workings which were said to host grades up to 1/2 oz gold and 5% copper.

ITEMIZED COST STATEMENT

Peter Peto: 3 days @ \$200/day.....	\$600.00
Transportation, food and accommodation.....	160.00
Report and map preparation.....	100.00
Analytical (7 samples @ \$14.50/sample).....	101.50

TOTAL COST \$961.50

AUTHOR'S QUALIFICATION

I, Peter Peto, of #207-669 Martin Street, Penticton, B.C.
DO HEREBY CERTIFY:

That I am a consulting geologist with a business address as shown above.

That I am a graduate of the University of Alberta where I obtained my B.Sc. and M.Sc. degrees in Geology in 1968 and 1970 respectively. I am also a graduate of the University of Manchester where I obtained my doctorate in Geology in 1975.

That I am a Fellow of the Geological Association of Canada.

That I have practiced my profession actively since 1975.

Dated this 5 day of December 1983, at Penticton, B.C.

Respectfully submitted:

Peter Peto

Peter Peto, Ph.D., F.G.A.C.

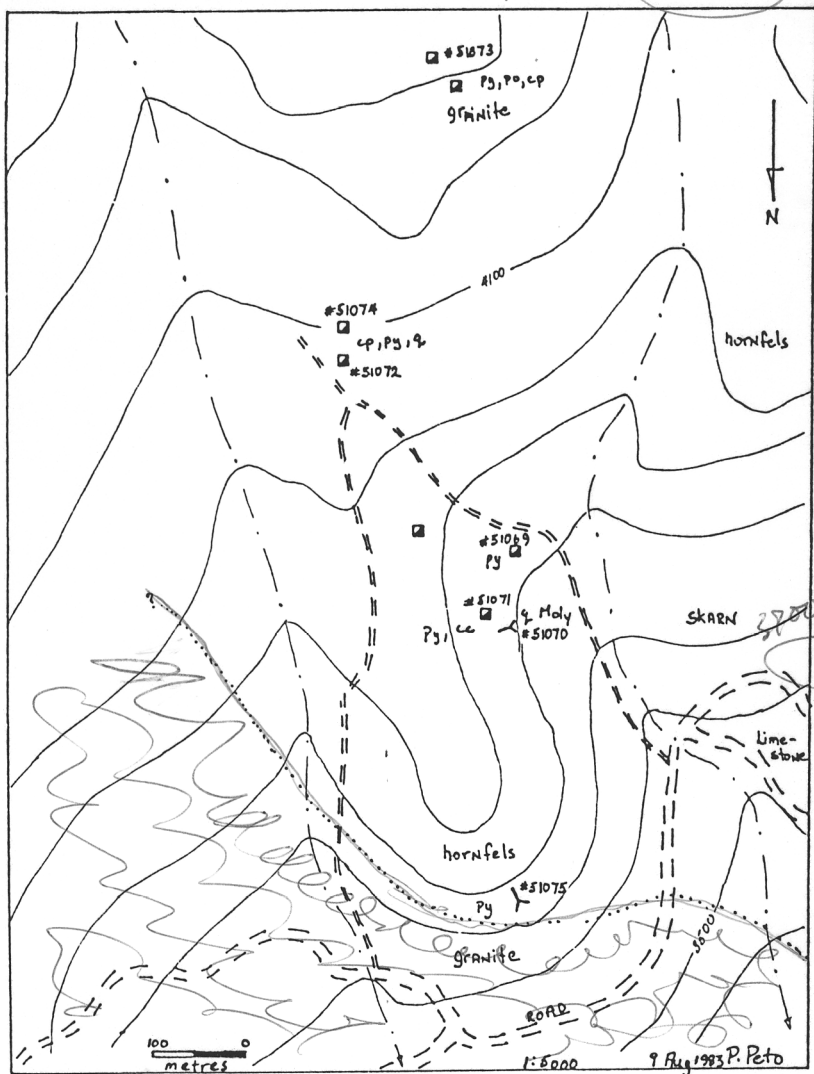


FIGURE #2 SAMPLE LOCATIONS

ACHE ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH: 253-3158 TELEX: 04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:1 HCl TO HClO TO HClO₂ AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.

THIS LEACH IS PARTIAL FOR: Ca, F, Mg, Al, Ti, La, U, Na, K, V, Ba, Sr, Cr AND B. Au DETECTION 3 PPM.

AUXILIARY ANALYSIS FROM 10 GRAM F&M. A61 ANALYSIS BY AA. H61 ANALYSIS BY FLAMELESS AA FROM .500 GRAM SAMPLE. SAMPLE TYPE - P1-3 ROCK P4-5 SOIL

DATE RECEIVED AUG 12 1983 DATE REPORTS MAILED Aug 20/83 ASSAYER Mc Coy DEAN TOYE, CERTIFIED B.C. ASSAYER

ASARCO EXPLORATION PROJECT # MOONLIGHT FILE # B3-1613

PAGE # 1

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Mn	Co	Ni	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M	Sn	Au#1	Hg#1	Ag#1	Pb#1
	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	ppm	ppm	ppm	ppm	ppm
51049	3	163	4	18	.1	17	9	442	3.50	10	4	ND	2	44	1	2	2	38	2.33	.09	4	15	.08	10	.11	6	.78	.02	.02	2	2	4	5	.3	2
51070	546	216	2	22	.1	14	14	338	4.74	7	2	ND	3	22	1	2	2	23	1.13	.03	7	10	.14	14	.04	6	.63	.02	.04	7	2	12	5	.4	2
51071	5	35	4	45	.1	29	8	816	3.35	14	2	ND	2	139	1	2	2	65	7.07	.06	9	29	.37	21	.01	5	.75	.01	.04	2	2	1	10	.2	4
51072	14	840	3	35	1.6	14	12	122	3.03	9	2	ND	2	4	1	6	2	13	.07	.01	2	1	.15	10	.01	6	.29	.01	.05	2	2	4	10	1.5	4
51073	6	703	9	14	1.8	55	102	387	24.73	22	5	ND	2	7	1	2	2	68	.61	.16	15	3	.26	6	.02	2	.53	.01	.02	113	2	80	5	1.8	2
51074	5	785	7	24	2.1	7	26	72	3.78	41	2	ND	2	2	1	6	2	5	.02	.01	2	1	.83	4	.01	4	.13	.01	.02	2	2	6	5	2.2	2
51075	77	251	7	73	.7	24	16	1732	4.71	11	2	ND	2	302	2	2	2	46	8.22	.05	7	19	.92	62	.01	4	.60	.01	.03	20	2	4	5	.7	2
STD A-1	1	36	39	162	.3	36	12	1010	2.79	19	2	ND	2	36	1	2	2	59	.58	.10	7	75	.76	286	.08	6	2.08	.02	.20	2	3	1	35	.7	-