6608

GEOCHEMICAL REPORT

on the

IDAHO MOUNTAIN PROJECT

(MARY REYNOLDS SILVER PROSPECT)
N.T.S. 92-I 8W

FOR

PINE VALLEY EXPLORERS LTD. (N.P.L.)
1925 2nd Avenue
MERRITT, B.C.

BY

Don Faulkner
Prospector

JANUARY 1978

CLAIMS: PV # 1. Units 1 & 16, PV # 2. Units 1-4, 13-20, 24-27.
LOCATION: Five kilometers southeast of Stump Lake at 50° 20' N 120° 20'W
DATES April 8th 1977 to April 22nd 1977.

TABLE OF CONTENTS

INTRODUCTION

This report has been prepared on behalf of Pine Valley Explorers Ltd. (N.P.L.) by Don Faulkner, President and Manager of the Company.

The report is supplemental to a report by A.F. Reeve, P. Eng. in June, 1973, which described a reconnaisance program involving two hundred and eighty eight samples. An additional six hundred and seventy three samples taken during the original 1973 survey which had been stored on the property were analysed during the 1976 season. During the 1977 the control grid was extended to cover an area not covered by the original survey and an additional three hundred and twenty samples were collected and sent for analysis.

It describes a geochemical survey carried out on certain parts of PV # 1 and PV #2 mineral claims in the Nicola Mining Division.

The purpose of the survey was to prospect for buried silver-bearing veins that are known to occur on and adjacent to the property.

A location map, geochemical plan, and statement of survey costs is also included in the appendix.

Figure 2 incorporates 774 samples collected in 1973 but not analysed until 1976 and 320 samples collected and analysed in 1977 in addition to the original 288 samples collected and analysed in 1973.

The original 1973 samples were not background corrected and there appeared to be no way to correlate the silver values obtained with the later analyses. Therefore values in excess of .7ppm were considered anomalous for the 1973 samples and values in excess of .3 ppm were considered to be anomalous for the later analyses.

PROPERTY

The following mineral claims are those to which the survey described in this report is to be applied as assessment work.

Claim Names	Record No.	Assessment Anniversary prior to work application
PV # 1 Grid Units 1& 16	51	December 29 1977
PV # 2 Grid Units 1-4 13-20 24-27	52	December 29 1977

LOCATION AND ACCESS

The Idaho Mountain Project (Mary Reynolds Silver Prospect) is 39 kilometers directly south of Kamloops, 4 kilometers southeast of Stump Lake, B.C. at about:

50° 20' North Latitude 120° 20' West Longitude
1000 Meters Above Sea Level

The claims can be reached by driving 44 km northeast from Merritt on Highway # 5, then 4 km east northeast from a a point near the south end of Stump Lake on the Peterhope Forest Access Road.

LOCAL GEOGRAPHY

Total topographic relief on the property is less than 300 m. Rounded hills are wooded with open pine forest and thicker stands of Douglas fir and jackpine at higher elevations. The property is cut by at least three ravines which appear to represent glacial stria paralleling local bedding planes striking N 15° E approximately.

The climate is moderate. Total annual precipitation is about 38 cm.

Scott Creek (Peterhope Creek) crosses PV #1 flowing westward into Stump Lake to Nicola Lake drainage near the Merritt-Kamloops Highway.

BACKGROUND

The Mary Reynolds silver-gold veins were discovered by prospectors in the early 1880's. Prior to 1900 a number of shallow shafts, tunnels and trenches were excavated. Between 1889 and 1919, 131 tons of ore carrying about 50 oz/ton silver was shipped to the Trail smelter.

Additional exploration work was done between 1919 and 1930 but no shipments were made. There are no available records which indicate that any substantial work was done between 1930 and December, 1966, when the property was acquired by Don Faulkner of Merritt, B.C.

In 1967 Faulkner carried out stripping, roadbuilding and a small amount of drifting. Twenty tons of material averaging about 10 oz/ton silver was shipped to Trail. In 1968 a small open concentrator was built by Faulkner for Pine Valley Exploration Syndicate at the Mary Reynolds portal. This was dismantled in the spring of 1969. Since 1969 additional roadbuilding, trenching, linecutting and soil sampling has been done on the property.

The geochemical survey described in Reeve's report was carried out in 1972 and 1973 following incorporation of Pine Valley Explorers Ltd. (NPL) in conjunction with a spontaneous potential survey and magnetometer surveys. This report describes follow-up work on those surveys.

GEOLOGY

The geology of the Stump Lake area is described on G.S.C. Map # 8864 and Memoir # 249 (1961) by W.E. Cockfield.

" The western and central parts of the region are occupied by a NW trending belt of Triassic volcanic and sedimentary rocks (Nicola Group) intruded by felsic plutonic masses. Locally, these are important host rocks for copper sulphide mineralization."

In the vicinity of Swakum Mt. and Stump Lake, quartz and calcite vein deposits containing gold and silver occur in the Nicola Group.

In the Stump Lake area there are nine known gold-silver prospects. Most productive of these was the Stump Lake mine which is three km west of the Mary Reynolds prospect. It produced 77,605 tons of ore averaging .11 oz/ton Au, 3.26 oz/ton Ag, .026% Cu, 1.4% Pb, .24% Zn between 1916 and 1944.

The Mary Reynolds Property is underlain by massive to mildly foliated augite andesites of the Nicola Group.

The most important geological feature on the property is a northeast trending quartz-carbonate alteration zone which occupies the central part of Mineral Lease M20R. It has a maximum width of more than 46 m. and is at least 900 m. in length. It appears to be a steeply dipping shear which has been bleached and silified by hydrothermal activity. It is composed of green schist, fine-grained grey quartz, bleached remnants of andesite and limestone, and minor amounts of calcite and ferruginous carbonate accompanied by very sparse and irregular disseminations of pyrite, galena and sphalerite. The surface weathers to a light buff colour. Assays of this material carry gold values ranging between .01 to .09 oz/ton Au and silver values ranging between .4 and 2.25 oz/ton Ag. There are other similar zones on the property but they are not as well developed by prospect workings.

Silver and gold bearing veins composed of quartz-calcite, galena, sphalerite and pyrite have been introduced into the alteration zone.

The most promising of these vein systems occur in the principal Mary Reynolds workings on M20R. They are developed more or less continuously along a strike length of about 100 m.(320') by underground workings. The 85 level follows a vein .35 m to .6 m in thickness. A second sub-parallel vein to the west was cut by a stub crosscut 10 m from the portal. The stope above the 50 level has been mined to a width of 2.5 m (8'). On the same level north of the shaft, there are two parallel 1.3 m and .5 m veins. The veins dip steeply, have a general NNE trend and cut the zone obliquely.

GEOCHEMICAL SURVEY

CONTROL GRID

The grid origin was established at the southeast corner of Lot 674 and the northeast corner of Lot 675 on the east side of mineral lease M20R (Mary Reynolds C.G. L 674, Gold Cup C.G. L 675) on the site of the original surveyed corner. From this point a base line was cut out 1372 m North (4500') and 915 m South (3000'). East-west cross lines were then cut 91.5m (300') apart from the base line.

A second north-south base line was cut at 457m (1500') west from Line 30+00S to Line 60+00S. East-west cross lines were then cut 91.5m (300') apart from the second base line. Stations were marked on all lines at 30.5m (100') intervals by pickets and flagging tape. A total of 48km (30 miles) of grid lines were cut and chained in 1972 and 1973.

During the 1977 program the main north base line was rehabilitated and extended to Stn. 50N (130m) and east-west cross lines were cut and picketed at 30m intervals on this line. East cross lines were cut from stations 35+00N, 40+00N and 45+00N and picketed at 30m intervals to stations 30+00E on each line. Line 30 W was rehabilitated and resampled to station 40+00W since original samples from this line and Line 45 W had been lost or misplaced. A total of 4 km. of line was cut and picketed within the property boundaries and 1.5 km was tested outside property boundaries.

SAMPLING PROCEDURE

Two hundred and seventy soil samples were collected on cross lines 30+00NW, 45+00NW, 50+00 NW & NE, 35+00NE, 40+00NE, 45+00NE from the sites marked on Figure 2. The samples were taken by trowel and grub hoe, 10-16cm below surface, from the B^1 soil horizon. They were packed in numbered, water resistant kraft envelopes and shipped to Bondar Clegg & Co. Ltd., in North Vancouver for analysis. An additional fifty soil samples from the 1973 survey from lines 21+00NE and 24+00NW were included with this shipment.

ANALYSIS

Each sample was dried in infrared ovens, seived to minus 80 mesh,

and samples of 0.5 gr. weighed out.

For the silver and lead analysis, the samples were digested in Lefort aqua regia, bulked to 20% acid concentration and homogenized. Each was allowed to settle for one hour and analysed by atomic absorption. Constant comparisons with both synthetic and matrix standards and the results were permanently recorded on chart paper.

Lead and silver content was reported in parts per million and silver readings were filtered to compensate for calcium interference.

RESULTS

Silver and lead values are recorded on the geochemical plan (Fig. 2) in parts per million at each sample site.

Of the total of 1349 samples analysed, 1276 were plotted on Fig. 2. 1149 silver analysis (90% of total) ranged between .2 and .3 ppm after background correction and probably represent "background" population. The remainder, 127 analyses, ranged from .4 to 44 ppm and are classed as anomalous for the purpose of this survey.

Similarly 76 lead analyses or 6% of the total exceeded 20 ppm and for the purpose of this survey were classed as anolalous. The highest lead analysis was 660 ppm and occured coincident with a strong self potential response.

The average content in soil of the 2 elements according to Hawkes and Webb are as follows:

Silver	0.1 ppm
Lead	10 ppm

"Anomalous" lead and silver values are correlative at 55 sample sites.

INTERPRETATION OF RESULTS

The sampling pattern provides reasonably full coverage of the survey area.

Exploration targets are indicated as follows:

(a) on Unit 27 and north part of Unit 17 end area to east.
(b) east part of Unit 1 and Unit 16.
(c) westerly part of Unit 19 and Unit 25.

Geochemical response to known mineralization was obtained in the following areas:

(a) in extreme northwest part of PV 2 invicinity of the old Vindicator shafts and trenches
(b) in the general area extending north from M19R on Unit 18
(c) in the general area along M20R south to the Johannesburg shaft.

RECOMMENDATIONS

The area adjacent to Unit 17 and 27 should be acquired by staking and anomalous area tested by trenching or short drill holes.

Road should be extended into west side of Units 19 and 25 and access made available to Vindicator workings.

Geochem coverage should be extended to cover Units 13 and 14 at least to line 00.

Respectfully submitted:

Don Faulkner

January 1978

STATEMENT OF PERSONNEL

Don Faulkner Merritt B.C.	Linecutting	8 days @ $50	April 8-15 77
	Soilsampling	6 days @ $50.	April 17-22
	Report Prep.	6 days @ $50	

Faulkner is President and manager of Pine Valley Explorers Ltd., and is the original vendor of the property. He has been actively prospecting since 1946 for various exploration companies and syndicates and has had broad experience in this type of work.

STATUTORY DECLARATION OF EXPLORATION COST

CANADA
Province of British Columbia TO WIT:

IN THE MATTER OF: A geochemical soil survey on the Pine Valley Group on behalf of Pine Valley Explorers Ltd.

I, Donald Faulkner of the town of Merritt in the Province of British Columbia

DO SOLEMNLY DECLARE THAT:
Linecutting and a geochemical survey were conducted on claims owned by Pine Valley Explorers Ltd. (N.P.L.) in the Nicola Mining Division, five kilometers southeast of Stump Lake during the period from April 8th 1977 to April 22nd 1977, and that the following expenses were incurred:

1.) D. Faulkner linecutter and sampler 14 days @ $50/day $700.00
2.) Vehicle rental, equipment & supplies inclusive above
3.) Analyses, (Bondar Clegg & Co. Ltd) $856.00
4.) Report, data compilation, drafting ... (not charged-$300.)

Total $1576.00

DECLARED BEFORE ME
at
In the Province of
this day of
A.D. 1978

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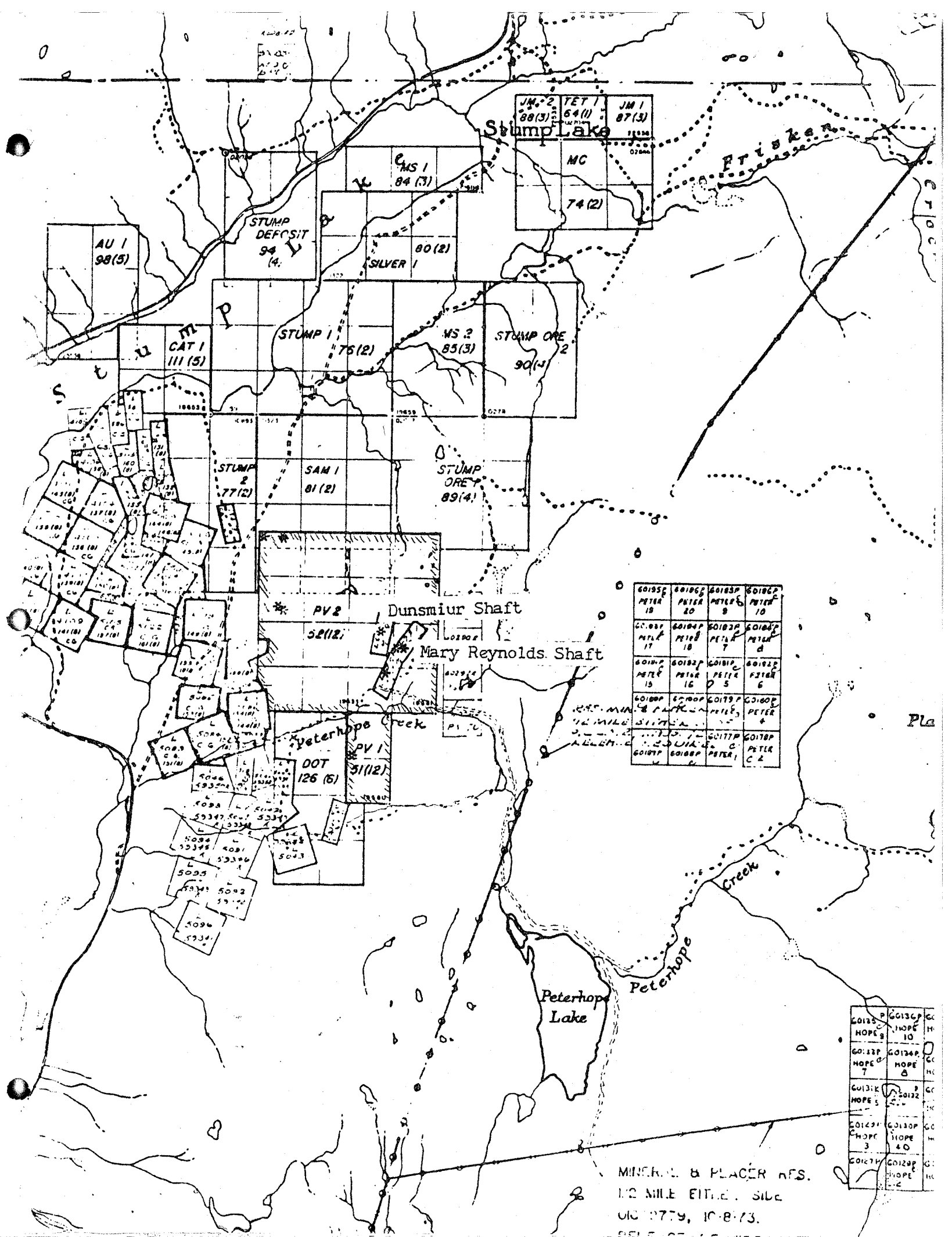
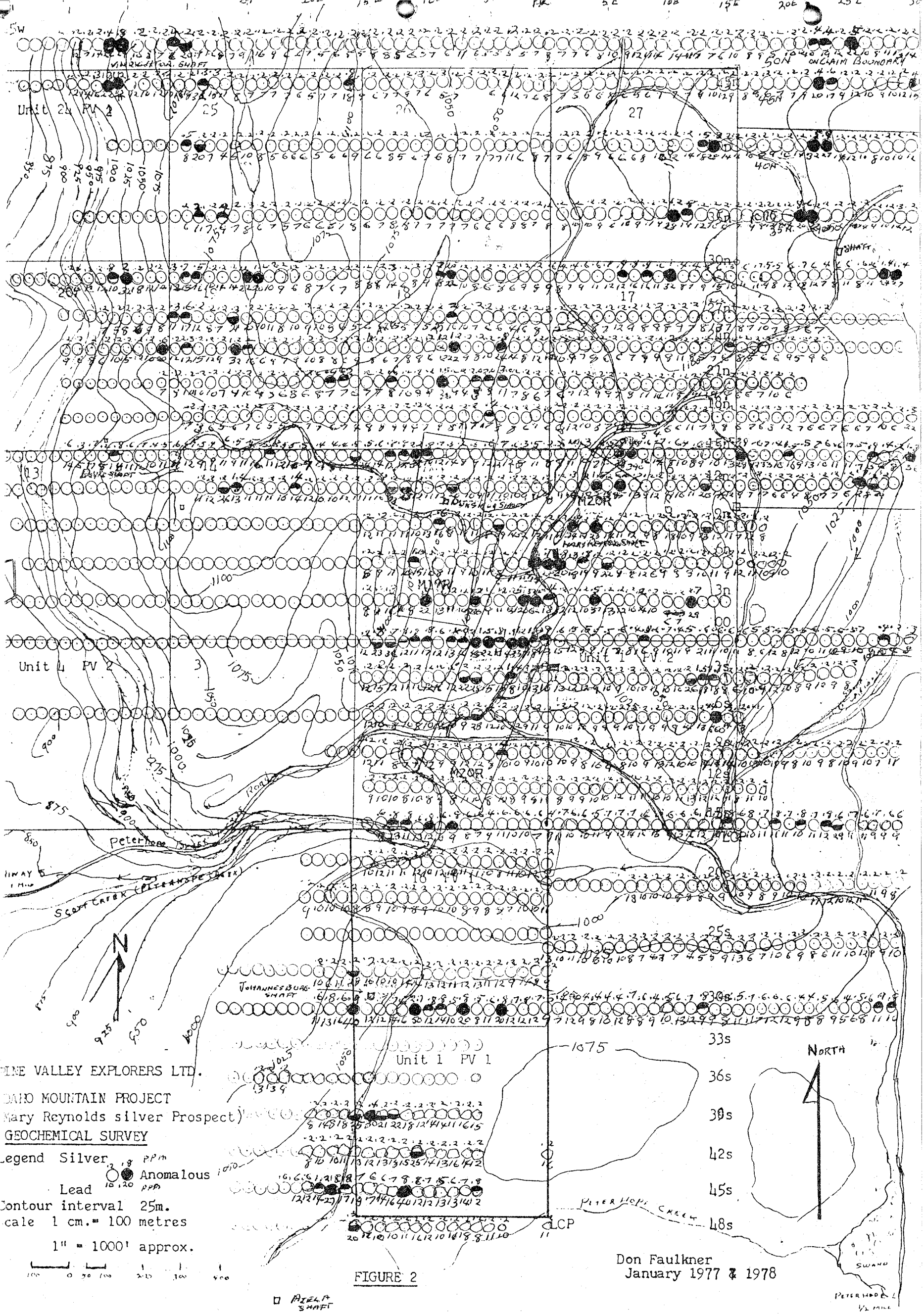

Stump Lake
Ptarmigan
JM 2
88(3)
TET 1
64(1)
JM 1
87(3)
MC
74(2)
MS 1
84(3)
STUMP DEPOSIT
94(4)
SILVER 1
80(2)
AU 1
98(5)
CAT 1
111(5)
STUMP 1
75(2)
MS 2
85(3)
STUMP ORE 2
90(4)
STUMP 2
77(2)
SAM 1
81(2)
STUMP ORE 1
89(4)
PV 2
52(12)
Dunsmuir Shaft
Mary Reynolds Shaft
Peterhope Creek
PV 1
51(12)
DOT
126(6)
Peterhope Lake
Peterhope Creek
MINERAL & PLACER RES.
1/2 MILE RADIUS
DEC 2779, 10-8-73.



PINE VALLEY EXPLORERS LTD.

KAIKO MOUNTAIN PROJECT

(Mary Reynolds silver Prospect)

GEOCHEMICAL SURVEY

Legend Silver .2 .8 PPM
Anomalous 10 20 PPM
Lead

Contour interval 25m.

Scale 1 cm. = 100 metres

1" = 1000' approx.

FIGURE 2

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 26 - 1332

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
39S - 8W	14	0.2			25S - 9E	4	0.2		
7W	11	0.2			10E	3	0.2		
6W	16	0.2			11E	7	0.2		
5W	15	0.2			12E	4	0.2		
36S - 25W	13	0.2			13E	5	0.2		
24W	13	0.2			14E	5	0.2		
23W	9	0.2			15E	9	0.2		
27S - 20W	10	0.2			16E	13	0.2		
19W	6	0.2			17E	6	0.2		
18W	11	0.2			18E	7	0.2		
17W	28	0.2			19E	10	0.2		
16W	16	0.2			20E	6	0.2		
15W	10	0.2			21E	9	0.2		
14W	10	0.2			22E	8	0.2		
13W	14	0.2			23E	6	0.2		
12W	14	0.2			24E	11	0.2		
11W	13	0.2			25E	10	0.2		
10W	12	0.2			26E	12	0.2		
9W	11	0.2			27E	9	0.2		
7W	12	0.2			28E	9	0.2		
6W	13	0.2			29E	10	0.2		
5W	11	0.2			30E	11	0.2		
4W	12	0.2			21S - 20W	9	0.2		
3W	9	0.2			19W	10	0.2		
2W	14	0.2			18W	10	0.2		
1W	8	0.2			17W	10	0.2		
25S - BL	13	0.2			16W	9	0.2		
1E	10	0.2			15W	8	0.2		
2E	11	0.2			14W	8	0.2		
3E	10	0.2			13W	10	0.2		
4E	10	0.2			12W	9	0.2		
5E	10	0.2			11W	8	0.2		
6E	10	0.2			10W	9	0.2		
7E	8	0.2			9W	10	0.2		
8E	7	0.2			8W	10	0.2		

BONDAR-CLEGG & COMPANY LTD.
1630 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction: Hot Aqua Regia
Method: Atomic Absorption
Fraction Used:

Report No.: 26 - 1332
From: Pine Valley Exploration
Date: December 15 1976

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
48S - 25W	12	0.2			42S - 18W	11	0.2		
24W	10	0.2			17W	13	0.2		
23W	9	0.2			16W	12	0.2		
22W	11	0.2			14W	13	0.2		
21W	11	0.4			13W	18	0.2		
20W	11	0.2			12W	15	0.2		
19W	9	0.2			11W	25	0.2		
18W	12	0.2			10W	14	0.2		
17W	17	0.2			9W	13	0.2		
16W	20	0.3			8W	16	0.2		
14W	12	0.2			7W	14	0.2		
13W	10	0.2			6W	12	0.2		
12W	10	0.2			BL	16	0.2		
11W	11	0.2			39S - 25W	10	0.2		
10W	16	0.2			24W	15	0.2		
9W	12	0.2			23W	14	0.2		
8W	10	0.2			22W	16	0.2		
7W	11	0.2			21W	10	0.2		
6W	18	0.2			20W	8	0.2		
5W	8	0.2			19W	14	0.2		
4W	11	0.2			18W	8	0.2		
3W	10	0.2			17W	18	0.2		
BL	11	0.2			16W	13	0.2		
42S - 25W	11	0.2			15W	25	0.2		
24W	11	0.2			14W	30	0.4		
23W	14	0.2			13W	21	0.2		
22W	13	0.2			12W	22	0.2		
21W	8	0.2			11W	18	0.2		
20W	10	0.2			10W	12	0.2		
19W	10	0.2			9W	14	0.2		

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Geochemical Lab Report

Report No. 26 - 1332

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
21S - 7W	8	0.2			18S - 12W	11	0.2		
6W	9	0.2			11W	11	0.2		
5W	8	0.2			10W	12	0.2		
4W	8	0.2			9W	10	0.2		
3W	7	0.2			8W	12	0.2		
2W	10	0.2			7W	11	0.2		
1W	10	0.2			6W	11	0.2		
BL	11	0.2			5W	10	0.2		
20S - 7E	18	0.2			4W	8	0.2		
8E	10	0.2			3W	11	0.2		
9E	10	0.2			2W	10	0.2		
10E	10	0.2			1W	12	0.2		
11E	8	0.2			BL	8	0.2		
12E	8	0.2			12S - 15W	9	0.2		
13E	8	0.2			14W	10	0.2		
14E	9	0.2			13W	10	0.2		
15E	9	0.2			12W	8	0.2		
16E	10	0.2			11W	10	0.2		
17E	9	0.2			10W	8	0.2		
18E	8	0.2			9W	9	0.2		
19E	9	0.2			8W	8	0.2		
20E	10	0.2			7W	11	0.2		
21E	10	0.2			6W	10	0.2		
22E	11	0.2			5W	8	0.2		
23E	12	0.2			4W	10	0.2		
24E	10	0.2			3W	8	0.2		
25E	12	0.2			2W	9	0.2		
26E	11	0.2			1W	8	0.2		
27E	11	0.2			BL	11	0.2		
28E	9	0.2			1E	8	0.2		
29E	8	0.2			2E	9	0.2		
30E	9	0.2			3E	9	0.2		
18S - 15W	11	0.2			4E	10	0.2		
14W	10	0.2			5E	10	0.2		
13W	12	0.2			6E	12	0.2		

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Geochemical Lab Report

Report No. 26 - 1332

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
12S - 7E	11	0.2			9S - 6E	8	0.2		
8E	11	0.2			7E	10	0.2		
9E	10	0.2			8E	9	0.2		
10E	10	0.2			9E	13	0.2		
11E	11	0.2			10E	12	0.2		
12E	13	0.2			11E	10	0.2		
13E	12	0.2			12E	10	0.2		
14E	13	0.2			13E	14	0.2		
15E	12	0.2			14E	11	0.2		
16E	12	0.2			15E	14	0.2		
17E	11	0.2			16E	10	0.2		
18E	8	0.2			17E	13	0.2		
19E	11	0.2			18E	10	0.2		
20E	10	0.2			19E	10	0.2		
9S - 15W	10	0.2			20E	9	0.2		
14W	11	0.2			21E	8	0.2		
13W	8	0.2			22E	10	0.2		
12W	7	0.2			23E	9	0.2		
11W	7	0.2			24E	10	0.2		
10W	12	0.2			25E	10	0.2		
9W	9	0.2			26E	7	0.2		
8W	9	0.2			27E	11	0.2		
7W	12	0.2			28E	9	0.2		
6W	12	0.2			29E	10	0.2		
5W	8	0.2			30E	8	0.2		
4W	10	0.4			6S - 15W	12	0.2		
3W	10	0.2			14W	10	0.2		
2W	9	0.2			13W	8	0.2		
1W	10	0.2			12W	10	0.2		
BL	10	0.2			11W	8	0.2		
1E	10	0.2			10W	10	0.2		
2E	9	0.2			9W	10	0.2		
3E	8	0.2			8W	10	0.2		
4E	10	0.2			7W	9	0.2		
5E	9	0.2			6W	28	0.2		

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Geochemical Lab Report

Report No. 26 - 1332

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
6S - 5W	12	0.2			3S - 2W	10	0.2		
4W	10	0.2			1W	13	0.2		
3W	12	0.2			BL	10	0.2		
2W	9	0.2			1E	13	0.2		
1W	11	0.2			2E	12	0.2		
BL	9	0.2			3E	12	0.2		
1E	10	0.2			4E	9	0.2		
2E	10	0.2			5E	10	0.2		
3E	10	0.2			6E	9	0.2		
4E	9	0.2			7E	10	0.2		
5E	9	0.2			8E	10	0.2		
6E	9	0.2			9E	11	0.2		
7E	10	0.2			10E	10	0.2		
8E	11	0.2			11E	10	0.2		
9E	9	0.2			12E	26	0.2		
10E	9	0.2			13E	19	1.5		
11E	9	0.2			14E	18	1.1		
12E	14	0.2			15E	8	0.2		
13E	13	0.2			16E	6	0.2		
14E	660	44.			17E	10	0.2		
15E	14	0.2			18E	9	0.2		
16E	11	0.2			19E	12	0.2		
3S - 15W	12	0.2			20E	10	0.2		
14W	15	0.2			21E	8	0.2		
13W	12	0.2			22E	9	0.2		
12W	11	0.2			23E	10	0.2		
11W	12	0.2			24E	9	0.2		
10W	12	0.2			25E	8	0.2		
9W	16	0.2			3N - 15W	8	0.2		
8W	12	0.2			14W	9	0.2		
7W	22	0.2			13W	16	0.3		
6W	28	0.2			12W	10	0.2		
5W	15	0.2			11W	8	0.2		
4W	15	0.2			10W	22	0.9		
3W	18	1.4			9W	13	0.2		

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Geochemical Lab Report

Report No. 26 - 1332 Page No. 6

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
3N - 8W	11	0.2			6N - 13E	10	0.2		
7W	10	0.2			14E	11	0.2		
6W	30	1.2			15E	9	0.2		
5W	9	0.2			16E	12	0.2		
4W	11	0.2			17E	11	0.2		
3W	12	0.2			18E	10	0.2		
2W	120	5.3			19E	9	0.2		
1W	62	2.0			20E	10	0.2		
6N - 15W	8	0.2			9N - 15W	12	0.2		
14W	9	0.2			14W	11	0.2		
13W	11	0.2			13W	11	0.2		
12W	10	0.2			12W	11	0.2		
11W	15	1.0			11W	10	0.2		
10W	10	0.2			10W	13	0.2		
9W	8	0.2			9W	11	0.6		
8W	11	0.2			8W	8	0.2		
7W	9	0.2			7W	11	0.2		
6W	10	0.2			6W	11	0.2		
5W	11	0.2			5W	8	0.2		
4W	8	0.2			4W	39	0.2		
3W	11	0.2			3W	14	0.2		
2W	11	0.2			2W	12	0.2		
1W	10	0.2			1W	13	0.2		
1E	20	0.8			12N - 30W	11	0.2		
2E	18	0.3			29W	12	0.2		
3E	12	0.2			28W	26	0.2		
4E	9	0.2			27W	13	1.4		
5E	22	0.2			26W	11	0.2		
6E	9	0.2			25W	11	0.2		
7E	8	0.2			24W	11	0.2		
8E	12	0.2			23W	10	0.2		
9E	6	0.2			22W	14	0.4		
10E	9	0.2			21W	10	0.2		
11E	8	0.2			20W	12	0.2		
12E	8	0.2			19W	10	0.2		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 26 - 1332 Page No. 7

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
12N - 18W	10	0.2			12N - 21E	17	0.2		
17W	12	0.2			22E	6	0.2		
16W	11	0.2			23E	6	0.2		
15W	11	0.2			24E	4	0.2		
14W	16	0.3			25E	8	0.2		
13W	38	0.2			26E	7	0.2		
12W	27	0.2			27E	7	0.2		
11W	12	0.2			28E	6	0.2		
10W	11	0.2			29E	28	0.7		
9W	12	0.2			30E	29	0.2		
8W	20	0.2			15N - 1E	9	0.2		
7W	10	0.2			18N - 30W	7	0.2		
6W	9	0.2			29W	8	0.2		
5W	11	0.2			28W	6	0.2		
4W	10	0.2			27W	5	0.2		
3W	10	0.2			26W	6	0.2		
2W	9	0.2			25W	7	0.2		
1W	11	0.2			24W	6	0.2		
1E	11	0.2			23W	5	0.2		
2E	16	0.3			22W	5	0.2		
3E	10	0.2			21W	5	0.2		
4E	26	1.5			20W	7	0.2		
5E	18	0.2			19W	7	0.2		
6E	85	6.0			18W	6	0.2		
10E	13	0.2			17W	7	0.2		
11E	9	0.2			16W	4	0.2		
12E	12	0.2			15W	8	0.2		
13E	11	0.2			14W	8	0.2		
14E	10	0.2			13W	9	0.2		
15E	11	0.2			12W	9	0.2		
16E	20	0.2			11W	9	0.2		
17E	14	0.2			10W	7	0.2		
18E	12	0.2			9W	9	0.2		
19E	9	0.2			8W	8	0.2		
20E	7	0.2			7W	7	0.2		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 26 - 1332

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
18N - 6W	7	0.2			18N - 29E	6	0.2		
5W	17	0.4			30E	22	0.3		
4W	8	0.2			21N - 30W	7	0.2		
3W	8	0.2			29W	8	0.2		
2W	6	0.2			28W	10	0.2		
1W	7	0.2			27W	10	0.2		
BL	6	0.2			26W	10	0.2		
1E	6	0.2			25W	7	0.2		
2E	12	0.2			24W	9	0.2		
3E	10	0.2			23W	10	0.2		
4E	8	0.2			22W	9	0.2		
5E	7	0.2			21W	8	0.2		
6E	9	0.2			20W	6	0.2		
7E	9	0.2			19W	8	0.2		
8E	8	0.2			18W	7	0.4		
9E	4	0.2			17W	7	1.2		
10E	6	0.2			16W	6	0.2		
11E	6	0.2			15W	7	0.2		
12E	11	0.2			14W	7	0.2		
13E	7	0.2			13W	8	0.6		
14E	7	0.2			12W	10	0.2		
15E	8	0.2			11W	8	0.2		
16E	6	0.2			10W	9	0.2		
17E	7	0.2			9W	30	1.5		
18E	6	0.2			8W	8	0.2		
19E	3	0.2			7W	4	0.2		
20E	12	0.2			6W	8	2.0		
21E	7	0.2			5W	8	2.0		
22E	6	0.2			4W	11	3.0		
23E	6	0.2			3W	7	0.2		
24E	7	0.2			2W	8	0.2		
25E	6	0.2			1W	6	0.2		
26E	6	0.2			24N - 1E	10	0.2		
27E	7	0.2			2E	9	0.2		
28E	10	0.2			3E	7	0.9		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 26 - 1332

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
24N - 4E	8	0.2			27N - 21W	8	0.2		
5E	6	0.2			20W	10	0.2		
6E	6	0.2			19W	9	0.2		
7E	7	0.2			18W	10	0.2		
8E	9	0.2			17W	8	0.2		
9E	9	0.2			16W	6	0.2		
10E	8	0.2			15W	5	0.2		
11E	11	0.2			14W	6	0.2		
12E	8	0.2			13W	6	0.2		
13E	5	0.2			12W	5	0.2		
14E	7	0.2			11W	7	0.2		
15E	6	0.4			10W	5	0.2		
16E	8	0.2			9W	5	0.2		
17E	5	0.2			8W	16	2.0		
18E	6	0.2			7W	10	0.2		
19E	6	0.2			6W	7	0.2		
20E	9	0.2			5W	6	0.2		
21E	5	0.2			4W	6	0.2		
22E	9	0.2			3W	4	0.2		
23E	6	0.2			2W	6	0.2		
27N - 36W	7	0.2			1W	8	0.2		
35W	5	0.2			2E	5	0.2		
34W	8	0.2			3E	6	0.2		
33W	6	0.2			4E	7	0.2		
32W	9	0.2			5E	8	0.2		
31W	8	0.2			6E	7	0.2		
30W	11	0.3			7E	12	0.2		
29W	17	0.6			8E	9	0.2		
28W	12	0.2			9E	8	0.6		
27W	8	0.2			10E	8	0.2		
26W	7	0.2			11E	8	0.2		
25W	21	0.3			12E	9	0.2		
24W	10	0.2			13E	7	0.2		
23W	10	0.2			14E	8	0.2		
22W	11	0.2			15E	13	0.2		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 26 - 1332

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
27N - 16E	7	0.2			35N - 4W	6	0.2		
17E	8	0.2			3W	8	0.2		
18E	7	0.2			2W	8	0.2		
19E	10	0.2			1W	7	0.2		
20E	7	0.2			40N - 30W	8	0.5		
21E	8	0.2			29W	20	0.2		
22E	7	0.2			28W	7	0.2		
23E	6	0.2			27W	4	0.2		
24E	7	0.2			26W	5	0.2		
35N - 30W	6	0.2			25W	10	0.2		
29W	11	2.1			24W	8	0.2		
28W	7	0.2			23W	5	0.2		
27W	9	0.9			22W	6	0.2		
26W	7	0.2			21W	6	0.2		
25W	8	0.3			20W	6	0.2		
24W	6	0.2			19W	5	0.2		
23W	7	0.2			18W	6	0.2		
22W	5	0.2			17W	6	0.2		
21W	7	0.2			16W	9	0.2		
20W	6	0.2			15W	6	0.2		
19W	6	0.2			14W	6	0.2		
18W	8	0.2			13W	8	0.2		
17W	7	0.2			12W	5	0.2		
16W	8	0.2			11W	6	0.2		
15W	6	0.2			10W	7	0.2		
14W	7	0.2			9W	6	0.2		
13W	8	0.2			8W	8	0.2		
12W	8	0.2			7W	7	0.2		
11W	7	0.2			6W	7	0.2		
10W	7	0.2			5W	7	0.2		
9W	7	0.2			4W	7	0.2		
8W	7	0.2			3W	11	0.2		
7W	7	0.2			2W	6	0.2		
6W	6	0.2			1W	8	0.2		
5W	6	0.2			45N - 7W	7	0.2		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 26 - 1332 Page No. 11

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.	Pb ppm	Ag* ppm		
45N - 6W	6	0.2			BL - 7N	8	0.2		
5W	6	0.2			8N	12	0.3		
4W	6	0.2			9N	10	0.2		
3W	7	0.2			10N	10	0.2		
2W	7	0.2			11N	8	0.2		
1W	6	0.2			12N	8	0.2		
BL - 30S	6	0.2			13N	9	0.2		
28S	8	0.2			14N	7	0.2		
27S	9	0.2			16N	10	0.2		
26S	9	0.2			17N	7	0.2		
25S	8	0.2			18N	8	0.2		
24S	16	0.2			19N	8	0.2		
23S	8	0.2			20N	8	0.2		
22S	7	0.2			21N	7	0.2		
20S	9	0.2			22N	7	0.2		
18S	9	0.2			23N	7	0.2		
17S	16	2.2			24N	10	0.2		
15S	7	0.2			25N	8	0.2		
14S	9	0.2			26N	7	0.2		
13S	8	0.2			27N	8	0.2		
12S	8	0.2			28N	13	0.2		
11S	8	0.2			29N	11	0.2		
10S	11	0.2			31N	7	0.2		
9S	8	0.2			32N	6	0.2		
8S	8	0.2			33N	7	0.2		
7S	10	0.2			34N	23	0.2		
6S	12	0.2			35N	8	0.2		
No NumberA	8	0.2			36N	9	0.2		
No NumberB	8	0.2			37N	6	0.2		
1N	14	0.2			38N	9	0.2		
2N	13	0.2			39N	6	0.2		
3N	18	0.4			40N	7	0.2		
4N	13	0.2			41N	7	0.2		
5N	37	2.2			42N	8	0.2		
6N	28	0.7			43N	6	0.2		

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction Hot Aqua Regia
Method Atomic Absorption
Fraction Used

Report No. 27 - 7
From Pine Valley Explorations
Date Jan 11 19 77

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.				
3N-1 + 00E	12	0.2							
2 + 00E	12	0.2							
3 + 00E	10	0.2							
4 + 00E	37	0.5							
5 + 00E	13	0.2							
9N-1 + 00E	11	0.2							
2 + 00E	24	0.9							
3 + 00E	14	0.2							
4 + 00E	23	0.5							
5 + 00E	14	0.2							

* Background corrected

V-18

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction Hot Aqua Regia
Method Atomic Absorption
Fraction Used

Report No. 27 - 1209
From Pine Valley Explorations
Date December 19 19 77

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.				
50N-40W	12	.2			50N-10W	11	.2		
39W	7	.2			9W	6	.2		
38W	14	.2			8W	5	.2		
37W	22	.4			7W	5	.2		
36W	29	.8			6W	5	.2		
35W	10	.2			5W	5	.2		
34W	9	.2			4W	7	.2		
33W	7	.2			3W	7	.2		
32W	6	.2			2W	8	.2		
31W	20	.4			1W	6	.2		
30W	17	.2			BL	8	.2		
29W	12	.2			1E	7	.2		
28W	8	.2			2E	7	.2		
27W	7	.2			3E	6	.2		
26W	9	.2			4E	8	.2		
25W	16	.2			5E	10	.2		
24W	9	.2			6E	9	.2		
23W	6	.2			7E	6	.2		
22W	7	.2			8E	9	.2		
21W	7	.2			9E	12	.2		
20W	5	.2			10E	14	.2		
19W	5	.2			11E	14	.2		
18W	5	.2			12E	11	.2		
17W	8	.2			13E	9	.2		
16W	8	.2			14E	7	.2		
15W	5	.2			15E	6	.2		
14W	6	.2			16E	10	.2		
13W	5	.2			17E	8	.2		
12W	7	.2			18E	9	.2		
11W	6	.2			19E	8	.2		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 27 - 1209 Page No. 2

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.				
50N-20E	10	.2			45N-11E	9	.2		
21E	12	.2			10E	7	.2		
22E	10	.4			9E	7	.2		
23E	19	.4			8E	7	.2		
24E	12	.2			7E	6	.2		
25E	22	.5			6E	5	.2		
26E	10	.2			5E	6	.2		
27E	9	.2			4E	6	.2		
28E	11	.2			3E	5	.2		
29E	13	.2			2E	5	.2		
30E	14	.2			1E	7	.2		
45N-30E	15	.4			BL	8	.2		
29E	12	.2			8W	7	.2		
28E	10	.2			9W	5	.2		
27E	9	.2			10W	6	.2		
26E	10	.2			11W	7	.2		
25E	12	.2			12W	9	.2		
24E	17	.6			13W	7	.2		
23E	20	.4			14W	7	.2		
22E	12	.2			15W	6	.2		
21E	9	.2			16W	9	.2		
20E	9	.2			17W	18	.8		
19E	7	.2			18W	7	.2		
18E	7	.2			19W	7	.2		
17E	6	.2			20W	5	.2		
16E	8	.2			21W	6	.2		
15E	8	.2			22W	7	.2		
14E	9	.2			23W	7	.2		
13E	12	.2			24W	7	.2		
12E	10	.2			25W	7	.2		
1W	6	.2			26W	8	.2		
2W	7	.2			27W	11	.2		
3W	12	.2			28W	18	.3		
4W	6	.2			29W	32	1.3		
5W	6	.2			30W	18	.2		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 27- 1209

SAMPLE NO.	Pb ppm	Ag* ppm
45N-31W	16	.2
32W	10	.2
33W	12	.2
34W	10	.2
35W	12	.2
36W	32	2
37W	22	1.4
38W	16	.3
39W	14	.2
40W	12	.2
40N-BL	7	.2
1E	7	.2
2E	6	.2
3E	8	.2
4E	9	.2
5E	6	.2
6E	6	.2
7E	6	.2
8E	8	.2
9E	10	.2
10E	12	.2
11E	14	.2
12E	18	.5
13E	28	.8
14E	14	.2
15E	12	.2
16E	10	.2
17E	8	.2
18E	9	.2
19E	10	.2
20E	14	.2
21E	17	.2
22E	32	.3
23E	27	.9
24E	14	.2

SAMPLE NO.		
40N-25E	12	.2
26E	11	.2
27E	10	.2
28E	8	.2
29E	10	.2
30E	10	.2
35N-30E	12	.2
29E	14	.3
28E	10	.2
27E	9	.2
26E	14	.2
25E	10	.2
24E	6	.2
23E	8	.2
22E	21	.2
21E	20	.6
20E	14	.2
19E	14	.2
18E	12	.2
17E	8	.2
16E	9	.2
15E	7	.2
14E	6	.2
13E	10	.2
12E	12	.2
11E	19	1.2
10E	28	.8
9E	9	.2
8E	11	.2
7E	9	.2
6E	10	.2
5E	6	.2
4E	9	.2
3E	10	.2
2E	10	.2

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 27 - 1209 Page No. 4

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.				
35N- 1E	8	.2			30N-35W	32	2.		
30N- 1W	8	.2			36W	10	.8		
2W	9	.2			37W	12	.2		
3W	6	.2			38W	12	.2		
4W	8	.2			39W	9	.2		
5W	6	.2			40W	10	.2		
6W	8	.2			24N 1W	12	.2		
7W	10	.2			2W	8	.2		
8W	22	2.5			3W	14	.2		
9W	18	.7			4W	24	.8		
10W	9	.2			5W	10	.2		
11W	8	.2			6W	8	.2		
12W	6	.2			7W	9	.2		
13W	14	.3			8W	22	1.2		
14W	8	.2			9W	12	.2		
15W	8	.2			10W	6	.2		
16W	8	.2			11W	8	.2		
17W	7	.2			12W	8	.2		
18W	6	.2			13W	7	.2		
19W	7	.2			14W	6	.2		
20W	8	.2			15W	8	.2		
21W	6	.2			16W	9	.2		
22W	9	.2			17W	6	.2		
23W	10	.2			18W	8	.2		
24W	20	1.2			19W	8	.2		
25W	22	1.2			20W	10	.2		
26W	14	.2			21W	9	.2		
27W	14	.2			22W	7	.2		
28W	10	.2			23W	9	.2		
29W	16	.5			24W	6	.2		
30W	18	.7			25W	16	2.		
31W	12	.3			26W	32	1.2		
32W	14	.2			27W	9	.2		
33W	12	.2			28W	12	.2		
34W	18	.2			29W	15	.2		

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 27 - 1209

SAMPLE NO.	Pb ppm	Ag* ppm			SAMPLE NO.				
24N-30W	12	2.3			9N-10E	18	.2		
31W	12	.2			11E	10	.2		
32W	20	.6			12E	9	.2		
33W	10	.2			13E	23	.2		
34W	12	.2			14E	12	.2		
35W	15	.2			15E	11	.2		
36W	10	.2			16E	7	.2		
37W	6	.2			17E	12	.2		
38W	8	.2			18E	8	.2		
39W	6	.2			3N-6E	12	.2		
40W	9	.2			7E	10	.2		
21N- 1E	6	.2			8E	14	.2		
2E	7	.2			9E	10	.2		
3E	12	.2			10E	6	.2		
4E	9	.2			11E	7	.2		
5E	9	.2			12E	29	2.7		
6E	7	.2							
7E	8	.2			* background corrected				
8E	11	.2							
9E	14	.2							
10E	11	.2							
11E	8	.2							
12E	9	.2							
13E	12	.2							
14E	9	.2							
15E	8	.2							
16E	6	.2							
17E	6	.2							
18E	7	.2							
19E	10	.2							
20E	6	.2							
9N- 6E	11	.2							
7E	12	.2							
8E	9	.2							
9E	8	.2							