

#6102

6102

REPORT ON PERCUSSION DRILL PROGRAMME

ON THE

SF 1-20 MINERAL CLAIMS

Harrison Lake Area, B.C.
New Westminster Mining District

Lat. 49° 25'
Long. 121° 53'
N.T.S. 92H/5W

SF

on behalf of

92H/5W

SWIM LAKE MINES LTD. (N.P.L.)

by

Stanley B. Reamsbottom Ph. D.

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

NO. 6102

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In text:

Fig

- 1 Location map for SF 1-20 mineral claims, Harrison Lake, B.C.
- 2 Sketch of SF 1-20 mineral claims, 18 miles north of Harrison Mills, B.C.

In pocket:

- # / Topographic map of SF 1-20 grid, showing location and elevation of PD 1 to PD 5.

INTRODUCTION:

A percussion drill program was carried out on the SF 1-20 mineral claims, Harrison Lake, British Columbia between May 3 and May 30, 1976.

Drill targets had been defined by previous geochemical and geological surveys (Fitzgerald 1974), gravity survey (Galeski 1975) and electromagnetic survey (Reamsbottom 1975).

A total of 1500 feet of drilling was completed by Tamaraw Industries Ltd. on selected targets.

Rugged terrain precluded testing of additional interesting gravity and electromagnetic targets.

LOCATION AND ACCESS

The property is located 21 km north of Harrison Mills on Highway # 7. A partially paved highway runs north from Harrison Mills over the Chehalis River and then parallels the B.C. Hydro Power line on the western side of Harrison Lake. The SF property is traversed by the Weldwood South haul road which intersects the power line road at Lineham logging camp on Harrison Lake shore.

TOPOGRAPHY

The property straddles Cartmell Creek which drains eastward to Harrison Lake. Maximum elevations on the claim group are 600 metres. Topography is moderately rugged with several cliffs and rock-bluffs (Plate 1)

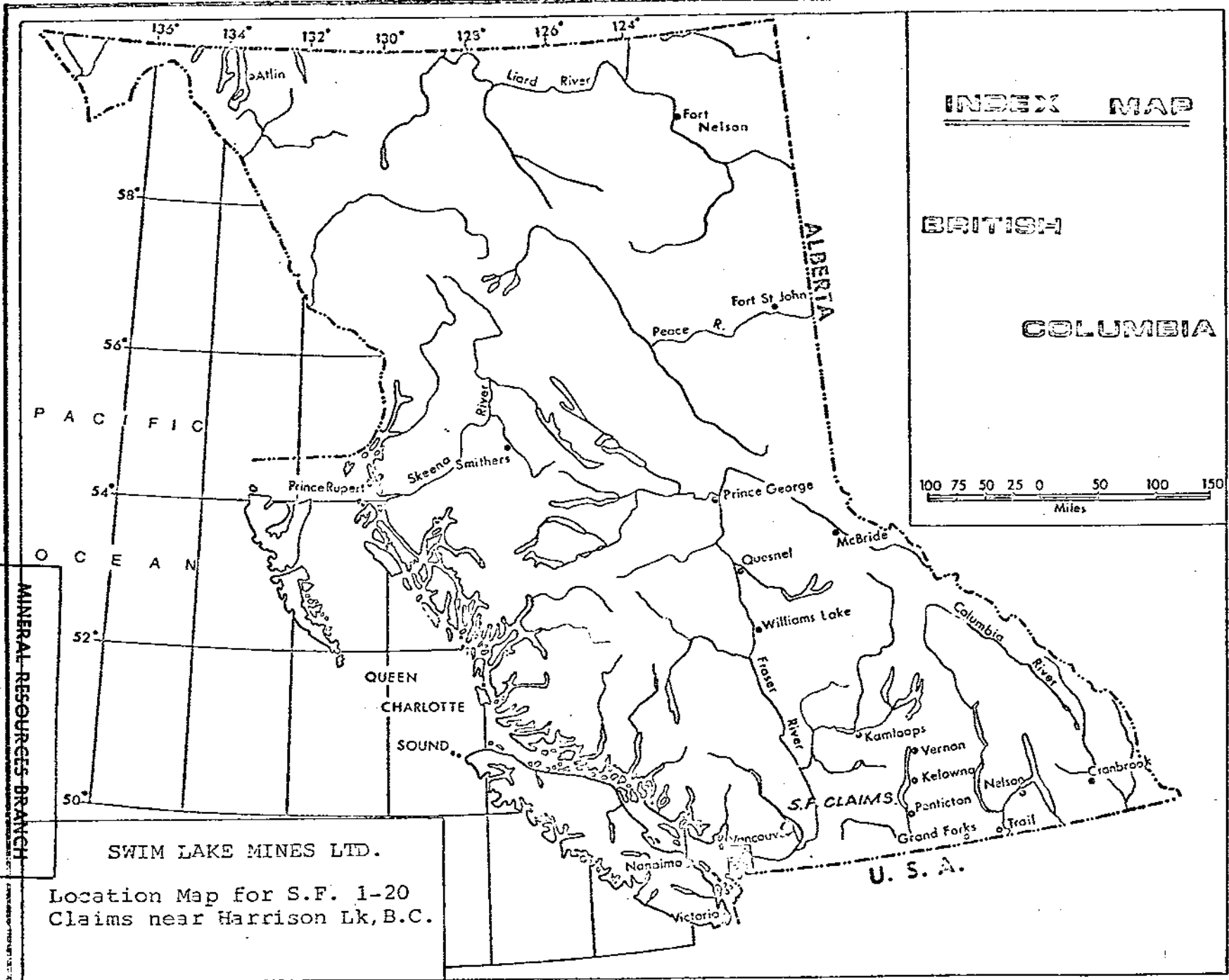
Vegetation varies from mature stands of conifers to clear-cut, slash-burned areas with abundant second growth timber.

CLAIMS

The property consists of 20 contiguous mineral claims which are owned by SWIM LAKE MINES LTD. (N.P.L.)

INDEX MAP

**BRITISH
COLUMBIA**



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SWIM LAKE MINES LTD.

Location Map for S.F. 1-20
Claims near Harrison Lk, B.C.

<u>CLAIM</u>	<u>RECORD NUMBER</u>	<u>ANNIVERSARY</u>
SF 1-14	28219-28232 incl.	Dec. 4, 1976
SF 15-16	28982-28983	Dec. 3, 1976
SF 17-20	29200-29203	May 22, 1977

GEOLOGY:

REGIONAL

The Southwest portion of Harrison Lake is underlain by volcanic and volcanic epiclastic rocks of the Harrison Lake formation of probable Middle Jurassic Age. This formation is part of a eugeoclinal assemblage of marine and volcanic rocks which evolved from Middle Devonian to mid Cretaceous. The depositional regime ended with the widespread and intense orogenic activity which culminated in the intrusion of the Coast Plutonic Complex in mid Cretaceous time.

PROPERTY

The SF claims are underlain mainly by acid to intermediate tuffs and breccias. Some flows of andesite and bedded water-lain tuffs and conglomerates occur within the sequence.

Tuffs are locally pervasively altered to quartz-pyrite rock which weathers rusty brown in the field. During the present survey veins of black sphalerite with minor pyrite were found within altered acid tuff close to the contact with overlying black pyritic shale on line 48E 32N.

DRILL-HOLES

All percussion drill-holes were drilled vertically to a depth of 300 feet (91.44 m). Drill-hole locations are shown on the elevation map Plate 1 in pocket.

Logs of holes presented below were based on rock-chip samples collected every 10 feet (3.05 m). Where heavily pyritized, samples were geochemically analyzed for Cu, Zn, Mo, and Au.

No significant mineralization was encountered.

DRILL HOLES

PD - 1 L56E 39N

The hole was located on a residual gravity anomaly of 1.0M gal; an electromagnetic anomaly and on the northern flanks of a Cu-Zn geochemical anomaly.

Result

0-300 : Medium to dark green volcanic tuff. Green color due to abundant epidote with lesser amounts of chlorite. Unit weakly pyritic with concentration of pyrite between 275-280 feet. No significant mineralization worthy of assay.

PD - 2 L48E 35N

The hole was located on a weak gravity feature, with associated EM, within 200 feet from pyrite sphalerite veins in silicified acid tuff.

Result

0-100 : overburden with acid pyritic tuff, black shale, and dark intermediate volcanics.

100-110 : Pale green, epidotized intermediate tuff.

110-130 : Black shale. Minor pyrite.

130-150 : ~~Intercalated~~ black shale, green volcanic sandstone.

150-200 : Green volcanic sandstone and minor black shale.

200-300 : Pale grey-green, epidotized volcanic tuff.

No significant mineralization.

PD - 3 LOE 9N

The hole was located on residual gravity anomaly C (0.6 M gal) which has associated Cu-Zn geochemistry.

Result

0-60 : Pale white-cream acid volcanic tuff. Heavily pyritized.

70-100 : Pale grey-green slightly epidotized volcanic tuff. Heavily pyritized.

100-150 : White silicified acid volcanic tuff. Slightly pyritized.

150-190 : Dark grey-green intermediate volcanic tuff. Locally paler where more silicified.

190-300 : Cream-buff acid volcanic tuff.

Geochem

	Cu	Zn	Mo	Au
20-30	16 ppm	60 ppm	1 ppm	<15 ppb
30-40	16 "	52 "	1 "	<15 "
80-90	36 "	32 "	2 "	<15 "
90-100	38 "	30 "	2 "	<15 "
120-130	13 "	11 "	4 "	<15 "
130-140	12 "	9 "	1 "	<15 "
170-180	38 "	22 "	1 "	<15 "

Geochem

	<u>Cu</u>	<u>Zn</u>	<u>Mo</u>	<u>Au</u>
230-240	14 ppm	13 ppm	1 ppm	<15 ppb
260-270	"	"	"	"
270-280	"	"	"	"

PD - 4 LOE 5N

The hole was located on the South flank of gravity anomaly C on an electromagnetic conductor.

Result

0-300 : Cream-white silicified acid volcanic tuff. Heavily pyritized between 70-110; 120-130; 140-180; 230-290.

Geochem

	<u>Cu</u>	<u>Zn</u>	<u>Mo</u>	<u>Au</u>
70-80	8 ppm	45 ppm	1 ppm	<15 ppb
80-90	7 "	36 "	2 "	<15 "
170-180	33 "	60 "	<1 "	60 "
180-190	31 "	34 "	<1 "	230 "
230-240	26 "	41 "	2 "	50 "
260-270	30 "	32 "	3 "	15 "
270-280	16 "	28 "	3 "	15 "

PD - 5 L24E 35N

The hole was located on a slight gravity anomaly with associated electromagnetic and geochemical anomalies.

Result

0-80 : Grey-silicified intermediate volcanic tuff. Pyritic between 30-50 feet.
 80-250: Pale grey silicified acid to intermediate tuff. Sparse pyrite.
 250-300: White-cream silicified acid tuff.

Geochem

	<u>Cu</u>	<u>Zn</u>	<u>Mo</u>	<u>Au</u>
20-30	20 ppm	47 ppm	2 ppm	<15 ppb
30-40	18 "	47 "	1 "	<15 "
40-50	106 "	83 "	1 "	<15 "

Drill holes could not be located on gravity anomaly B due to the rugged terrain.

Conclusion:

No mineralization of economic importance was encountered in any of the drill-holes. Additional holes should be drilled on the gravity and electromagnetic target on L16E 14N, possibly with a pack-sack drill.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Stanley B. Reamsbottom". The signature is written in black ink and is positioned above the typed name.

Stanley B. Reamsbottom Ph. D.

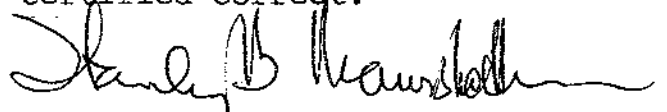
References

- Fitzgerald M.J. 1974. "Report on Geology and Geochemistry of the SF 1-20 Mineral Claims."
- Galeski R.B. 1975. "Gravity Interpretation of SF 1-20 claims for Swim Lake Mines Ltd."
- Reamsbottom S.B. 1975. " Geophysical Report of the Ground VLF Electromagnetic Survey on the SF 1-20 Mineral Claims."

STATEMENT OF COSTS

1. Field work, supervision May 3-30/1976	\$1,056.00
2. Travel gas, food etc.	198.91
3. Tamaraw Industries	<u>6,704.75</u>
Total	<u>\$7,959.66</u>

Certified Correct:



STANLEY B. REAMSBOTTOM

TAMARAW INDUSTRIES LTD.

1777 PRESTWICK DR., VANCOUVER, B.C. V5P 2E3

May 28, 1976

Swim Lake Mines Ltd.
530 - 701 W Georgia St.
Vancouver, B. C.

I N V O I C E

PDH 1 56E 41N

Casing 15ft. - - - - -	\$ 48.75
Drilling 285 ft. - - - - -	926.00
Moving 2 mach. hrs. - - - - -	70.00
4 man hrs. - - - - -	44.00

PDH 2 48E 36N

Casing 30 ft. - - - - -	97.50
Drilling 285 ft. - - - - -	877.50
Moving 2 mach. hrs. - - - - -	70.00
4 man hrs. - - - - -	44.00

PDH 3 0 10N

Casing 15ft. - - - - -	48.75
Drilling 285 ft. - - - - -	926.25
Moving 1 mach. hr. - - - - -	35.00
2 man hrs. - - - - -	22.00

PDH 4 0 2N

Casing 10ft. - - - - -	32.50
Drilling 290 ft. - - - - -	942.50

PDH 5 8w .5N

Casing 60 ft. - - - - -	195.00
Moving 2 mach. hrs. - - - - -	70.00
4 man hrs. - - - - -	44.00
Materials lost on the hole.	
5 ft. casing - - - - -	143.00
1 casing coupling - - - - -	86.00
1 bit - - - - -	250.00

PDH 6 24E 35N

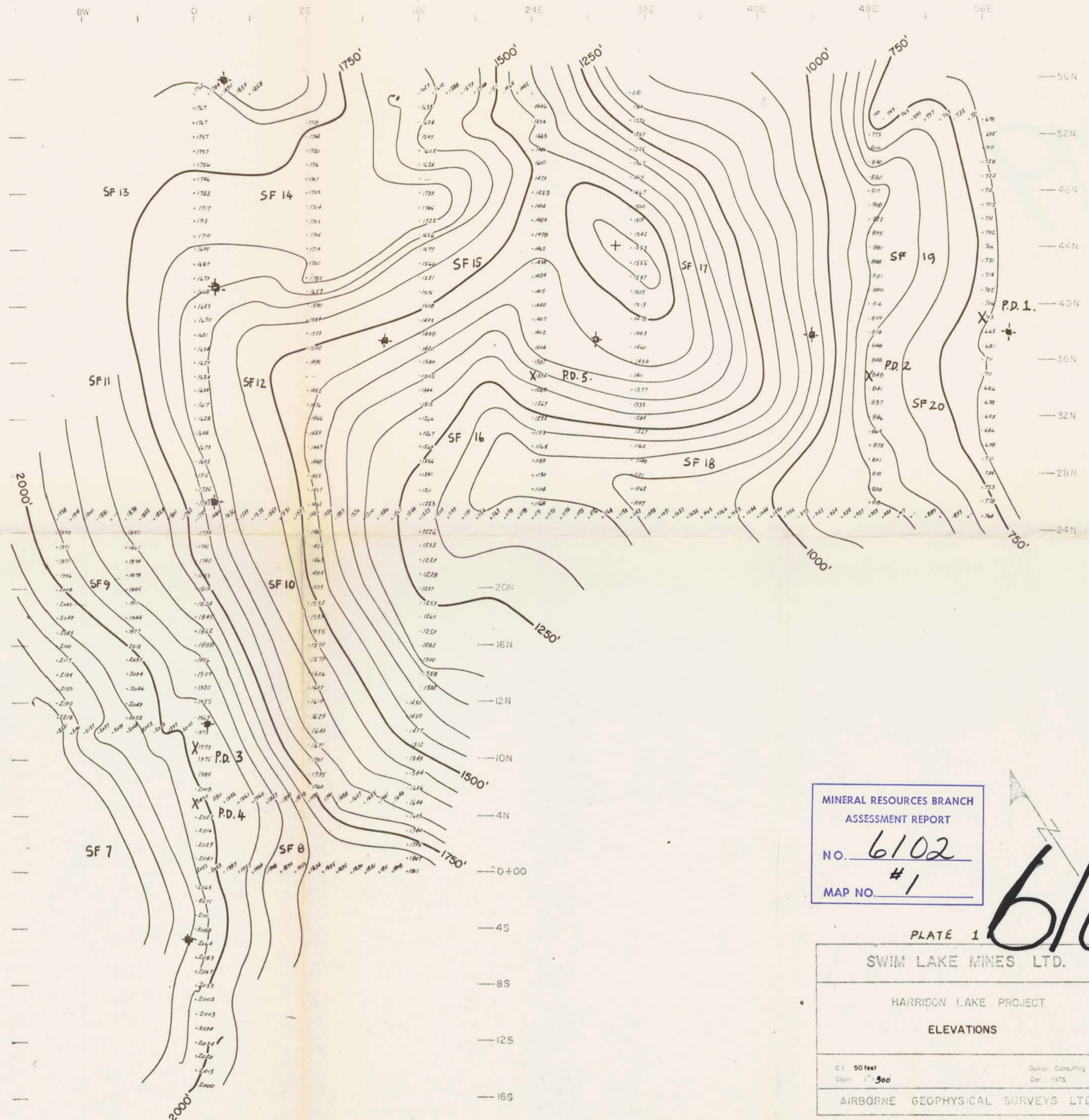
Casing 25 ft. - - - - -	81.25
Drilling 275 ft. - - - - -	893.75
Moving 1 mach. hrs. - - - - -	35.00
2 man hrs. - - - - -	22.00

Freight Vancouver to Weaver creek and back - - - - 700.00

Total \$ 6704.75

PAID
Cheque No. 1001... Date July 9 1976

July 13 1976



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 #1
 MAP NO. 1

PLATE 1

SWIM LAKE MINES LTD.

HARRISON LAKE PROJECT

ELEVATIONS

Cl 50 feet
 Scale 1" = 500'

Geophys. Consulting
 Dec., 1975

AIRBORNE GEOPHYSICAL SURVEYS LTD.

⊕ SF 20 - CLAIM POST AND CLAIM NAME.
 X P.D. 1. - PERCUSSION
 DRILL-HOLES.

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