

MAGNETOMETER AND GEOCHEMICAL SURVEY

SNOW #1-#5 MINERAL CLAIMS
Record Nos. 1100-1104(2)

MORESBY ISLAND, QUEEN CHARLOTTE ISLANDS, BRITISH COLUMBIA

SKEENA MINING DIVISION

NTS 103G/4W

LATITUDE $53^{\circ} 13'N$ LONGITUDE $131^{\circ} 48'W$

Dates of Work: Oct. 16, 1983--Feb. 23, 1984

By: James S. Christie, Ph.D.

and

W.A. Howell, B.Sc.

OWNER: Robert E. Mickle

OPERATOR: Majorem Minerals Ltd.

CONTRACTOR: JMT Services Corp.

April 25, 1984.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,369

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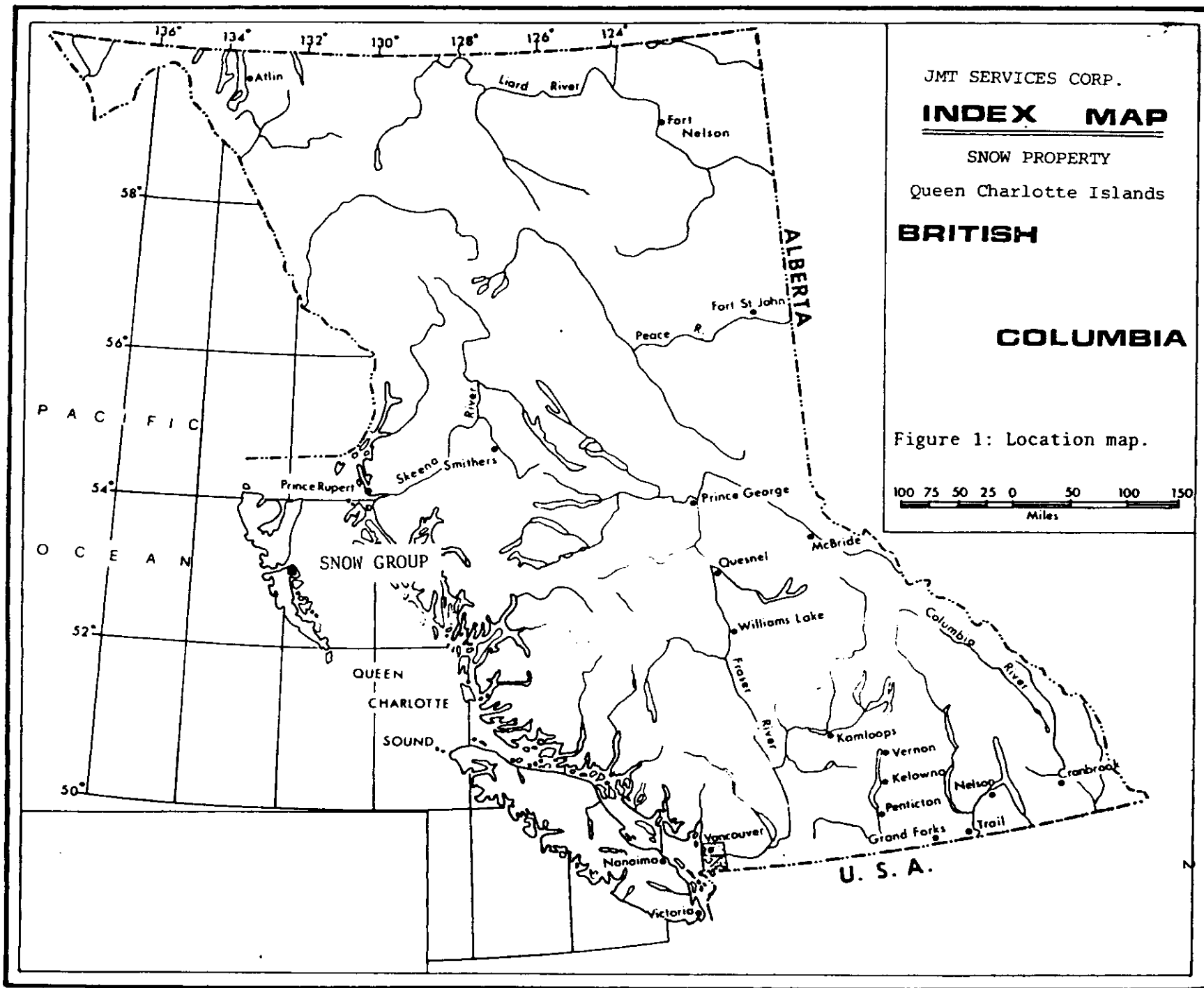
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	Scale: 1:1000	In Pocket

INTRODUCTION

The SNOW property was optioned from R.E. Mickle in the spring of 1981 after a previous agreement with Falconbridge Nickel Mines Ltd. had been terminated. Exploration work has been done in the area since about 1969 when part of the property was evaluated for copper and molybdenum by Falconbridge. The most recent work by Falconbridge was directed towards gold potential of the property. Geochemical analyses for Ca, Zn, Pb, Ag, Cd, Co, Hg, and As were done to various degrees on samples from three small geochem grids in the most promising areas. Limited programmes of backhoe trenching and hand trenching were done, and three short packsack drill-holes were completed, all of which returned very low gold assays.

Review of the Falconbridge results and examination of the property by the writers led to a conclusion that there was still hope for discovery of economic gold deposits on the property. A comprehensive geochem grid was established over the entire property, followed by a limited program of backhoe trenching and sampling. Encouragement from this program has led to the establishment of a small detail grid, a magnetometer survey and a limited geochemical soil sampling program. The resulting 65 soil samples and 3 rock samples have been analyzed for arsenic and gold by Chemex Labs. Ltd., 212 Brooksbank Avenue, North Vancouver, B.C..



JMT SERVICES CORP.
INDEX MAP

SNOW PROPERTY
 Queen Charlotte Islands

BRITISH
COLUMBIA

Figure 1: Location map.



LOCATION AND ACCESS

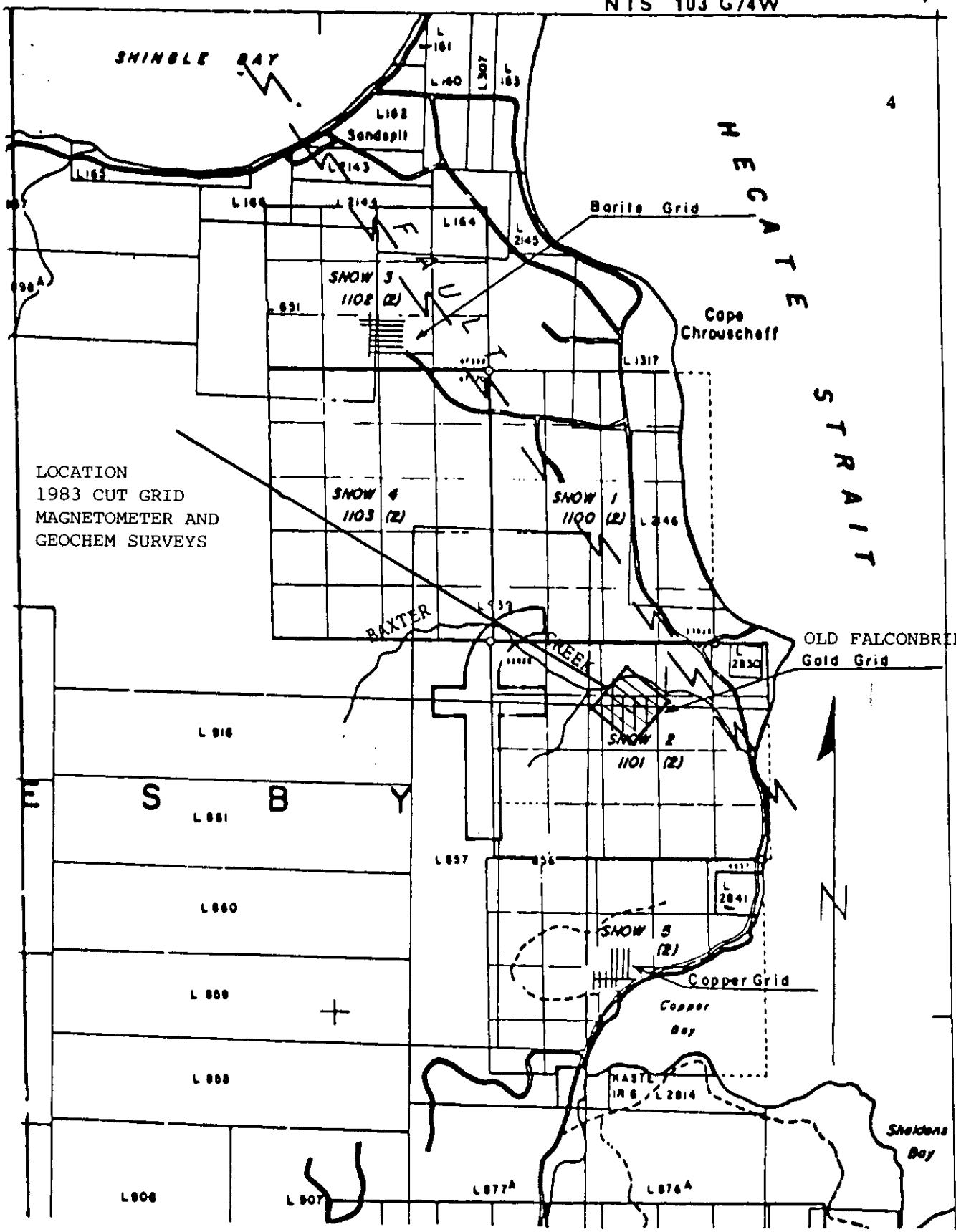
The claims are located on northeast Moresby Island, Queen Charlotte Islands, immediately south of the town of Sandspit. A good logging road runs south from Sandspit through the eastern part of the claim block and several abandoned spur roads run west across the property (Figs. 1, 2).

TOPOGRAPHY AND VEGETATION

The property occurs along the Sandspit fault scarp with an elevation range of 15 to 300 metres. Most of the area consists of tag alders, salal bush and immature forest growth which makes traversing very difficult. Outcrops are scattered and occur along major creeks and the fault scarp.

PREVIOUS ASSESSMENT REPORTS

- Prospecting Report on the QCBM Claim Group (Snow #1 & #2)
Dec. 27/79, R.E. Mickle.
- Assessment Report on the QCSZ Claim Group (Snow #3 & #4),
Jan. 31/80, S. Zastavnikovich.
- Geochemical Report on the Snow #5 Claim, Feb. 15/80, P. Burns,
I. Elliott.
- Geochemical Report, Feb./81, B.W. Downing.
- Geological and Geochemical, Physical work, Map of Trenches
with Assays. Assessment Report Feb./82, J.S. Christie
and G.G. Richards.



LOCATION
1983 CUT GRID
MAGNETOMETER AND
GEOCHEM SURVEYS

SNOW #1-5 MINERAL CLAIMS
Location Map

Figure 2

N.T.S NO.:103-G-4 :



SCALE: 1:50,000
JMT Services Corp.

MINERAL CLAIMS

The property consists of the SNOW #1-#5 Mineral Claims as listed below and shown on Figure 2.

<u>Claim Name</u>	<u>Record No</u>	<u>Units</u>	<u>Record Date</u>	<u>Expiry Date</u>	<u>Owner</u>
Snow #1	1100 (2)	20	Feb. 26/79	Feb. 26/85	R.E. Mickle
#2	1101 (2)	20	"	"	"
#3	1102 (2)	12	"	"	"
#4	1103 (2)	20	"	"	"
#5	1104 (2)	20	"	"	"

GEOLOGY

Bedrock exposure on the property is relatively sparse other than along the steep scarp bordering the Sandspit fault and the coastline south to Copper Bay. Most of the creeks have occasional exposures of bedrock and the nature of these suggests that overburden consists of a relatively thin veneer of gravely ground moraine and till. No bedrock exposure is known east of the Sandspit fault and numerous old strandlines are visible on air-photos. Much deeper overburden is probable east of the fault.

The geology differs somewhat from mapping shown in Bulletin #54-Geology of the Queen Charlotte Islands, by Dr. A. Sutherland-Brown. There are numerous exposures of Honna conglomerate in the creek west of Copper Bay, suggesting that the Honna is much more extensive than indicated in Bulletin 54. Outcrops of Yakoun Formation lapilli tuff and agglomerate occur east of that conglomerate area and extend to the scarp adjacent to the Sandspit fault, as shown in Bulletin 54. These rocks are of Jurassic age and probably are in fault contact with the Upper Cretaceous Honna conglomerate.

There are a number of exposures of diorite to quartz diorite intrusive rocks cutting the Yakoun section. These are probably of the same age as plutons mapped by Sutherland-Brown at the northwest corner of the property and southeast of the property at Cumshewa Point. The plutons appear to form a narrow belt of intrusive elongate parallel to the Sandspit fault.

A dyke of rhyolite(?) occurs on the west part of SNOW #5 claim west of Copper Bay. However, the effects of very intense hydrothermal alteration and up to 20% sulfide replacement mineralization, creates uncertainty about the original composition of these bleached leucocratic rocks.

MAGNETOMETER SURVEY AND GRID

Grid

A small grid consisting of 6.65 km of line was established. Of this total, 3.55 km was cut out and picketed. The grid consists of a base line 650 meters long on bearing with $045^{\circ}/235^{\circ}$ cross lines every 50 meters, extending 250 meters either side of the base line. The base line and alternate cross lines (every 100 m) were cut out and picketed. Line cutting was slow on account of dense salal and large windfall.

Magnetometer Survey

The cut and picketed portion of the grid was surveyed using a Scintrex MP-2 Proton Precession Magnetometer. The theory and use of

this instrument have been well documented in the literature. Specifications are enclosed in Appendix I. The instrument has a digital readout and gives an indication of the validity of readings enabling the operator to reject spurious results. Lines were run noting the times of readings and closed back to the baseline. Readings were corrected using the closed loop/time proportional correction method of correcting for diurnal magnetic variations and other variations such as magnetic storms, sunspot activity, etc.; precautions were taken during the survey to ensure that magnetic effects introduced by the operator were eliminated or minimized. The results of the survey are presented on Figure 3, enclosed in the pocket of this report.

Results over the north eastern portion of the grid were relatively flat. A very pronounced low flanked by high and irregular values is centered at approximately 3 + 25 SW, 1 + 00 NW.

GEOCHEMISTRY

General

Previous programs were designed to provide a geochemical picture of the entire claim block, rather than a narrow focus in the areas of known mineralization.

The current sampling was designed to provide a more detailed test of the local geochemical expression. Three "profile" lines were sampled, using a 30" auger and collecting 300-500 grams of the best approximation to the B horizon possible. Rock chip samples were made from

5 to 10 chips of the outcrops. All samples were placed in kraft sample bags for transport to the assay lab.

Overburden depths within the grid area are known to be from 0.5 m to in excess of 6 m. Geochemical analyses were performed on 65 soil samples and 3 rock samples by Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver, B.C. on the -80 mesh fraction, using the following standard procedures:

Arsenic:- Perchloric/nitric acid digestion with determination by
Atomic Absorption methods

Gold:- Fire assay preconcentration followed by Neutron Activation
Analysis.

DISCUSSION OF RESULTS

Magnetometer Survey

A pronounced magnetic low area was found to exist adjacent to known mineralization. The low may be part of a zone of lower N-S trending magnetic response suggested by the survey. The limited extent of the survey does not allow this trend to be conclusively demonstrated. To date, no trenching has been completed over the area where greatest magnetic field change occurs. It must be noted that some of the most encouraging trench/bedrock assays have come from the NE flanks of the prominent magnetic "low" zone.

Geochemical Survey

Arsenic values are very low over large portions of the claims. Based on values derived elsewhere on the SNOW property and on a great deal of sampling throughout the Queen Charlotte Islands, As values in the range of 15-24 ppm are considered moderately anomalous, while those exceeding 25 ppm are strongly anomalous.

Background values for gold on the Charlottes are generally less than 5 ppb while samples exceeding 10 ppb are considered anomalous and values over 50 ppb are highly anomalous.

Two of the three profile lines were established across an area of known mineralization and in an area known locally to have a strongly anomalous arsenic content. The lines were hoped to provide evidence that detailed geochemistry may be able to locally define sources rather than the broader target areas, as well as to provide confirmation of some of the previous sampling and analyses. The third line north of Baxter Creek was intended to indicate any possible extensions of mineralization to the north.

Results obtained from the current samples are shown on Figure 3. Gold values ranged from 1-2670 ppb and most of the anomalous values occur near the showings exposed in trenches. Continuity of mineralization southwest of Baxter Creek to line 1 + 00 SW is indicated and possible extension to the southeast on line 3 + 00 SW beyond the trenches is possible. North of Baxter Creek low values were obtained with the exception of one rock chip sample which ran 93 ppb Au, and one soil at 14 ppb.

Arsenic values ranged from 3-5600 ppm and anomalous values cluster well forming coincident but larger and stronger anomalies than gold. The arsenic anomalies suggest larger areas of continuous mineralization may be present. North of Baxter Creek moderately anomalous arsenic occur across 150 metres in the area of the baseline. These results may be of significance in view of probable thick glacial till in that area.

CONCLUSIONS AND RECOMMENDATIONS

Magnetometer Survey

Results of the Magnetometer survey have indicated a prominent magnetic "low" area with local relief up to 12000 γ and lesser relief of 2000 γ to 4000 γ elsewhere.

Known mineralization and gold values have been obtained from trenched areas in a weak mag high zone flanking the prominent low zone. This fact serves to focus immediate attention to the mag high ridge extending from 4 + 00 SW, 1 + 35 NW to beyond 3 + 00 SW, 2 + 10 NW, the magnetic field in this area exhibits changes of 12000 γ over 50 m.

Geochemical reports previously completed show a local area with an arsenic anomaly (up to 220 ppm As) to be coincident with the mag high ridge. Lesser geochemically anomalous areas (\geq 100 ppm As) are roughly coincident with the flanks of the prominent low magnetic anomaly outlined during the course of the present survey.

Further magnetic surveys should be conducted, particularly to the SW and NW of the present grid area, i.e. beyond 4 + 00 SW and NW of

2 + 50 NW. The extension of the present limit of trenching, to expose bedrock in the area of Greatest Magnetic relief is also recommended and would be relatively simple, given the access already provided to the area.

Geochemical Survey

Values obtained in the present survey indicate that some form of gold arsenic mineralization is continuous from the Baxter Creek showing to the area of trenching 250-300 metres southwest. East of the upper trenches a strong arsenic response with one 89 ppb gold value coincides with a weak mag high. Trenching should be extended into this area.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J.S. Christie".

J.S. Christie, Ph.D.

STATEMENT OF COSTS

SNOW MINERAL CLAIMS - 1983
MR #210755E

TIME

J.S. christie, Geologist	Oct. 18, 30	2 days @ \$250	\$ 500.00
W.A. Howell, Geologist	Oct. 18-25, 27-30, 31(½), Dec. 1(½)		
	18(½), 15-17	16.5 " @ \$250	4,125.00
Mark Hagemoen, Technician	Oct. 18-25, 27(½)	8.5 " @ \$150	1,275.00
Sam Courte	Oct. 16-25, 27-30, 31(½)	14.5 " @ \$150	2,175.00

OTHER COSTS

JMT Van	16 days @ \$50.00	800.00
Chain Saw Rentals - 2 med saws - Homelite - 2 weeks @ \$120		240.00
	1 large saw - Echo 2 weeks @ \$75	150.00
Airfares - 3 men - Vancouver-Sandspit-Vancouver		900.00

DISBURSEMENTS


Sandspit Inn	1,218.28
Hudson Building Supplies #48360	59.39
J.S. Christie, Expenses	755.76
Bill Howell, Expenses	239.37
PWA 0286 \$103.50; 2163 \$55.50; 8863 \$33.50	192.50
Sandspit Super Valu	227.46
Scintrex - Magnetometer rental	547.20
Mark Hagemoen - expenses	33.90
Kingsway Couriers	8.00
B.C. Tel.	28.05
Chemex Labs - #41138-39	692.50
Finelife Drafting - #389	140.00
Report	500.00

\$ 14,807.41

STATEMENT OF QUALIFICATIONS

I, WILLIAM A. HOWELL, do hereby certify that:

1. I am a professional geologist working in British Columbia and residing at 10611 Ainsworth Crescent, Richmond, B.C. V7A 3V5
2. I am a graduate of the University of British Columbia, Bachelor of Science (Geology) 1971.
3. I have been employed in the mineral exploration industry since 1967 and have practiced my profession as a geologist since 1971.
4. I am a member of the Geological Association of Canada.
5. This report is based on my personal knowledge of the district and the mapping and sampling done on the property.



W. A. Howell, B.Sc.

STATEMENT OF QUALIFICATIONS

I, James S. Christie of Vancouver, British Columbia, do hereby certify that:

1. I am a Professional Geologist residing at 3921 West 31st Avenue, Vancouver, B.C., V6S 1Y4.
2. I am a graduate of the University of British Columbia, B.Sc., Honours Geology, 1965; Ph.D. Geology, 1973;
3. I have practised my profession as a mining exploration geologist, continuously since 1965.
4. I am a Fellow of the Geological Association of Canada.
5. I am a Member of the Geological Society of America.
6. This report is based on my personal knowledge of the district, and mapping of the geology at the property.



James S. Christie, Ph.D.

APPENDIX I

2.0 Specifications

The NP-2 has the following specifications:

Resolution	1 gamma
Total Field Accuracy	±1 gamma over full operating range
Range	20,000 to 100,000 gammas in 25 overlapping steps.
Internal Measuring Program	A reading appears 1.5 seconds after depression of the Operate Switch and remains displayed for 2.2 seconds for a total of 3.7 seconds per single reading. Recycling feature permits automatic repetitive readings at 3.7 second intervals.
External Trigger	External trigger input permits use of sampling intervals longer than 3.7 seconds.
Display	5 digit LED (light emitting diode) readout displaying total magnetic field in gammas or normalized battery voltage.
Data Output	Multiplied precession frequency and gate time outputs for base station recording using interfacing optionally available from Scintrex.
Gradient Tolerance	Up to 5000 gammas/meter.
Power Source	8 alkaline "D" cells provide up to 25,000 readings at 25°C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number.
Sensor	Omnidirectional, shielded, noise-cancelling dual coil, optimized for high gradient tolerance.
Harness	Complete for operation with staff or back pack sensor.
Operating Temperature Range	-35°C to +60°C
Size	Console, with batteries: 80 x 160 x 250 mm Sensor: 80 x 150 mm Staff: 30 x 1550 mm (extended) 30 x 660 mm (collapsed)
Weights	Console, with batteries: 1.8 kg Sensor: 1.3 kg Staff: 0.6 kg

APPENDIX I

2.0 Specifications

The HP-2 has the following specifications:

Resolution	1 gamma
Total Field Accuracy	± 1 gamma over full operating range
Range	20,000 to 100,000 gammas in 25 overlapping steps.
Internal Measuring Program	A reading appears 1.5 seconds after depression of the Operate Switch and remains displayed for 2.2 seconds for a total of 3.7 seconds per single reading. Recycling feature permits automatic repetitive readings at 3.7 second intervals.
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Gradient Tolerance	Up to 5000 gammas/meter.
Power Source	8 alkaline "D" cells provide up to 25,000 readings at 25°C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number.
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RECEIVED APP 18
212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604) 984-0221
TELEX: 043-52597



CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : JMT SERVICES CORPORATION

8827 HUDSON STREET
VANCOUVER, B.C.
V6B 4N1

CERT. # : A8411139-001-
INVOICE # : I8411139
DATE : 16-APR-84
P.O. # : NONE
SNOW

ATTN: BILL HOWELL

Sample description	Prep code	AS ppm	Au NAA ppb				
83B 944	205	7	103	--	--	--	--
83J 338	205	3	93	--	--	--	--
83J 339	205	5	12	--	--	--	--



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by *Hart Bichler*



CHEMEX LABS LTD.

RECEIVED APR 18 1984

212 BROOKSBANK
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221

TELEX: 043-52597

CERTIFICATE OF ANALYSIS

TO : JMT SERVICES CORPORATION

8827 HUDSON STREET
VANCOUVER, B.C.
V6B 4N1

CERT. # : A8411138-001-
INVOICE # : I8411138
DATE : 16-APR-84
P.O. # : NONE
SNOW

ATTN: BILL HOWELL

Sample description	Prep code	AS ppm	Au NAA ppb				
83B 976	201	205	28	--	--	--	--
83B 977	201	5600	2670	--	--	--	--
83B 978	201	125	29	--	--	--	--
83B 979	201	1500	80	--	--	--	--
83B 980	201	50	7	--	--	--	--
83B 981	201	53	23	--	--	--	--
83B 982	201	55	4	--	--	--	--
83B 983	201	61	2	--	--	--	--
83J 318	201	15	<1	--	--	--	--
83J 319	201	19	<1	--	--	--	--
83J 320	201	15	<1	--	--	--	--
83J 321	201	25	6	--	--	--	--
83J 322	201	22	1	--	--	--	--
83J 323	201	27	1	--	--	--	--
83J 324	201	25	14	--	--	--	--
83J 325	201	32	8	--	--	--	--
83J 326	201	29	2	--	--	--	--
83J 327	201	27	<1	--	--	--	--
83J 328	201	25	<1	--	--	--	--
83J 329	201	17	<1	--	--	--	--
83J 330	201	16	5	--	--	--	--
83J 331	201	17	3	--	--	--	--
83J 332	201	19	<1	--	--	--	--
83J 333	201	24	<1	--	--	--	--
83J 334	201	10	<1	--	--	--	--
83J 335	201	20	<1	--	--	--	--
83J 336	201	14	<1	--	--	--	--
83J 337	201	15	2	--	--	--	--
83J 340	201	7	<1	--	--	--	--
83J 341	201	7	<1	--	--	--	--
83J 342	201	7	<1	--	--	--	--
83J 343	201	4	<1	--	--	--	--
83J 344	201	9	<1	--	--	--	--
83J 345	201	10	<1	--	--	--	--
83J 346	201	23	1	--	--	--	--
83J 347	201	16	4	--	--	--	--
83J 348	201	12	8	--	--	--	--
83J 349	201	9	<1	--	--	--	--
83J 350	201	20	<1	--	--	--	--
83J 351	201	2250	89	--	--	--	--

Certified by *Hart Bichler*





CHEMEX LABS LTD.

RECEIVED APR 18 1984
 2150 BROADBANK AVE
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604) 984-0221
 TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : JMT SERVICES CORPORATION

8827 HUDSON STREET
 VANCOUVER, B.C.
 V6B 4N1

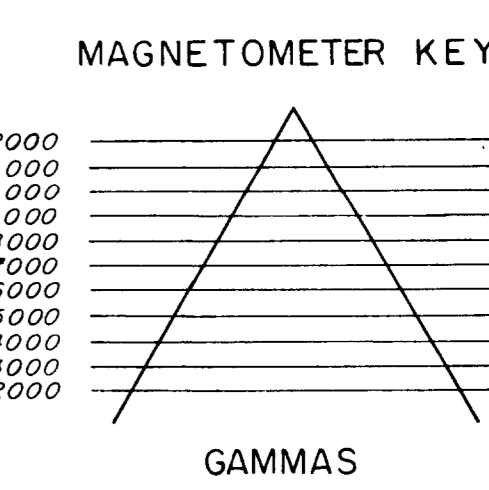
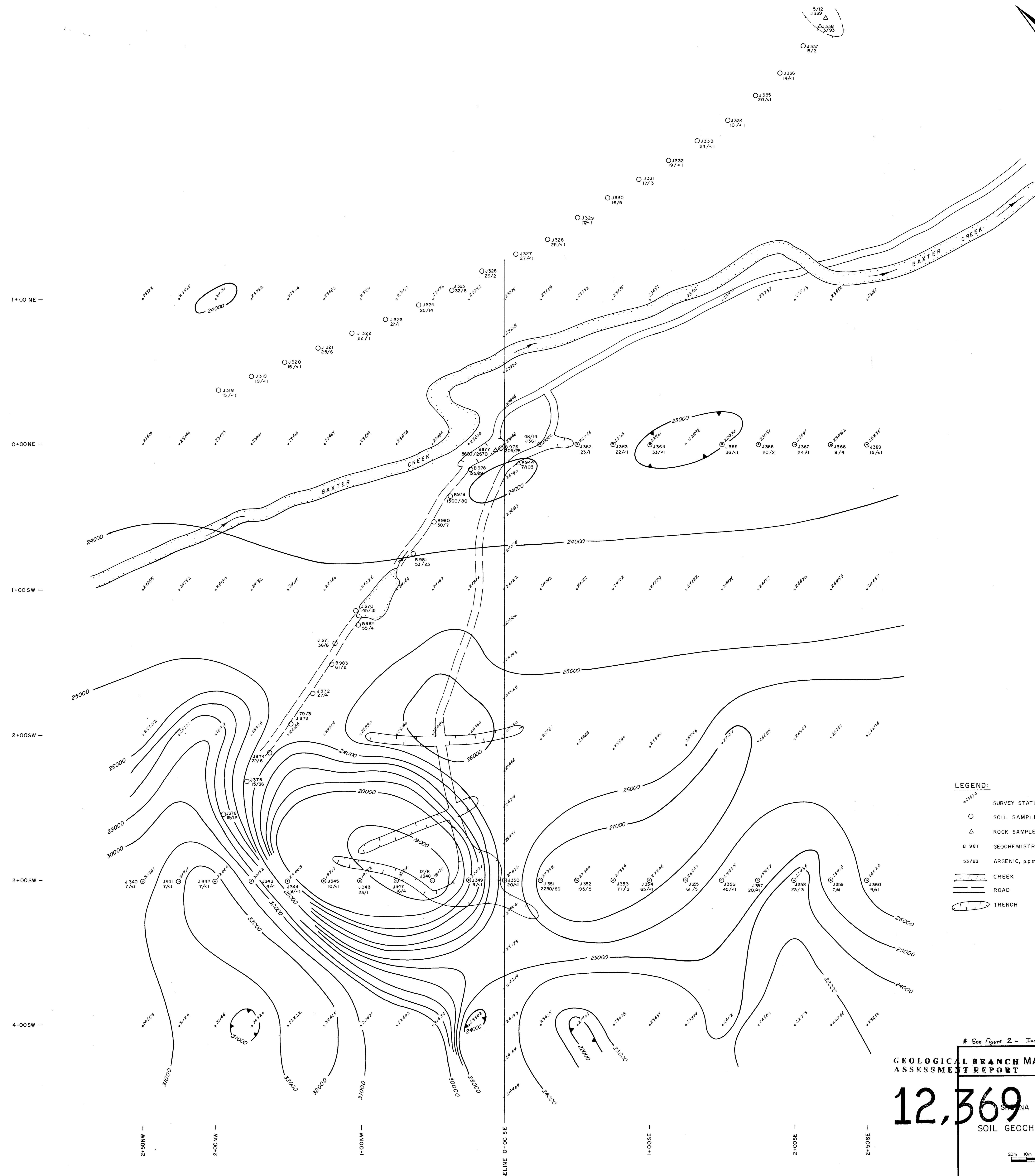
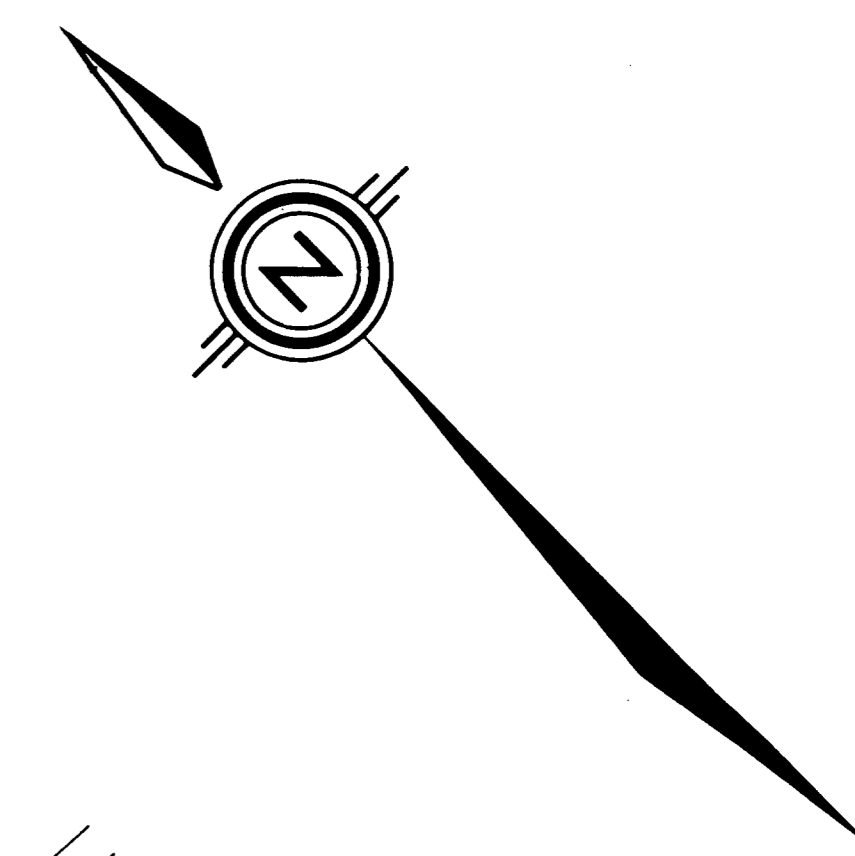
CERT. # : A8411138-002-
 INVOICE # : 18411138
 DATE : 16-APR-84
 P.O. # : NONE
 SNOW

ATTN: BILL HOWELL

Sample description	Prep code	AS ppm	AU NAA ppb				
83J 352	201	195	5	--	--	--	--
83J 353	201	77	3	--	--	--	--
83J 354	201	65	<1	--	--	--	--
83J 355	201	61	5	--	--	--	--
83J 356	201	45	<1	--	--	--	--
83J 357	201	20	<1	--	--	--	--
83J 358	201	23	3	--	--	--	--
83J 359	201	7	<1	--	--	--	--
83J 360	201	9	<1	--	--	--	--
83J 361	201	48	14	--	--	--	--
83J 362	201	23	1	--	--	--	--
83J 363	201	22	<1	--	--	--	--
83J 364	201	33	<1	--	--	--	--
83J 365	201	36	<1	--	--	--	--
83J 366	201	20	2	--	--	--	--
83J 367	201	24	1	--	--	--	--
83J 368	201	9	4	--	--	--	--
83J 369	201	15	<1	--	--	--	--
83J 370	201	45	15	--	--	--	--
83J 371	201	36	6	--	--	--	--
83J 372	201	27	4	--	--	--	--
83J 373	201	79	3	--	--	--	--
83J 374	201	22	6	--	--	--	--
83J 375	201	15	36	--	--	--	--
83J 376	201	19	12	--	--	--	--

Certified by *Hart Bichler*



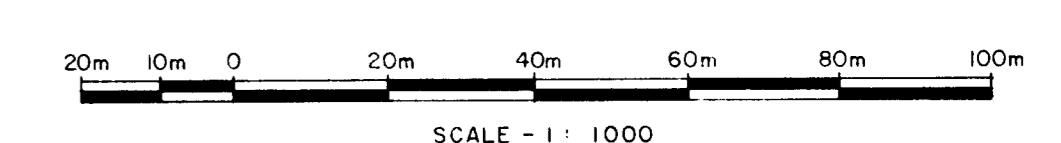


- LEGEND:**
- SURVEY STATION, MAGNETOMETER READING (gammas)
 - SOIL SAMPLE LOCATION
 - △ ROCK SAMPLE LOCATION
 - B 981 GEOCHEMISTRY SAMPLE NUMBER
 - 55/23 ARSENIC, ppm / GOLD, ppb.
 - CREEK
 - ROAD
 - TRENCH

* See Figure 2 - Index to Grid Location

**GEOLOGICAL BRANCH MAJOREM MINERALS LTD.
ASSESSMENT REPORT**

12,369 SNOW MINERAL CLAIMS
SARNA MINING DIVISION — N.T.S. 103 G / 4
SOIL GEOCHEMISTRY & MAGNETOMETER SURVEY



Survey by Hipchain, Compass, Barometer, and Compilation From Previous Maps.

FIG. 3

JMT SERVICES CORP.