

Geological, Geochemical and Geophysical Report on the Snow #1 - #4
Mineral Claims, Cariboo Mining Division, north-central British Columbia,
93J14E and 93J14W

54°57'00" N, 123°14'46" W

Owner: David Bridge, MASc, P.Geo

Operator: David Bridge, MASc, P.Geo

Author: David Bridge, MASc, P.Geo

Jan. 24, 2001

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

26,461

Summary

The Snow #1 - #4 mineral claims lie approximately 42 kilometers southwest of Mackenzie in the Nechako Plateau in the northern Interior of British Columbia. The copper and nickel mineralization exposed on the claims is within a carbonate alteration zone along a pyroxenite and hornblende dyke. The dyke intruded Middle to Upper Triassic Takla Group sediments. The area has been identified as a possible ultramafic dyke, but the previous company did not pursue any ground surveys in this area.

One rock sample has been collected from the property and assayed. 10 chip samples have been collected and assayed. 450 meters of magnetometer surveying has been completed along the road bisecting the Snow #2 claim.

A one meter chip sample returned 0.475% Cu and 0.521% Ni for a trench dug in the road cut along the road bisecting the property.

This property may warrant further exploration to determine the extent of mineralization.

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1.0 Introduction

The Snow #1 - #4 mineral claims (Snow property) cover tholeiitic copper - nickel mineralization hosted by a carbonate alteration zone along a pyroxenite and hornblende dyke. The property is located 42 kilometers southwest of Mackenzie in north-central British Columbia.

The fieldwork was supported by a prospecting grant from the Ministry of Energy and Mines through their Prospecting Assistance Program. The fieldwork was conducted by the author and his assistant, Michael McDonald during September, 2000.

1.1 Location and Access

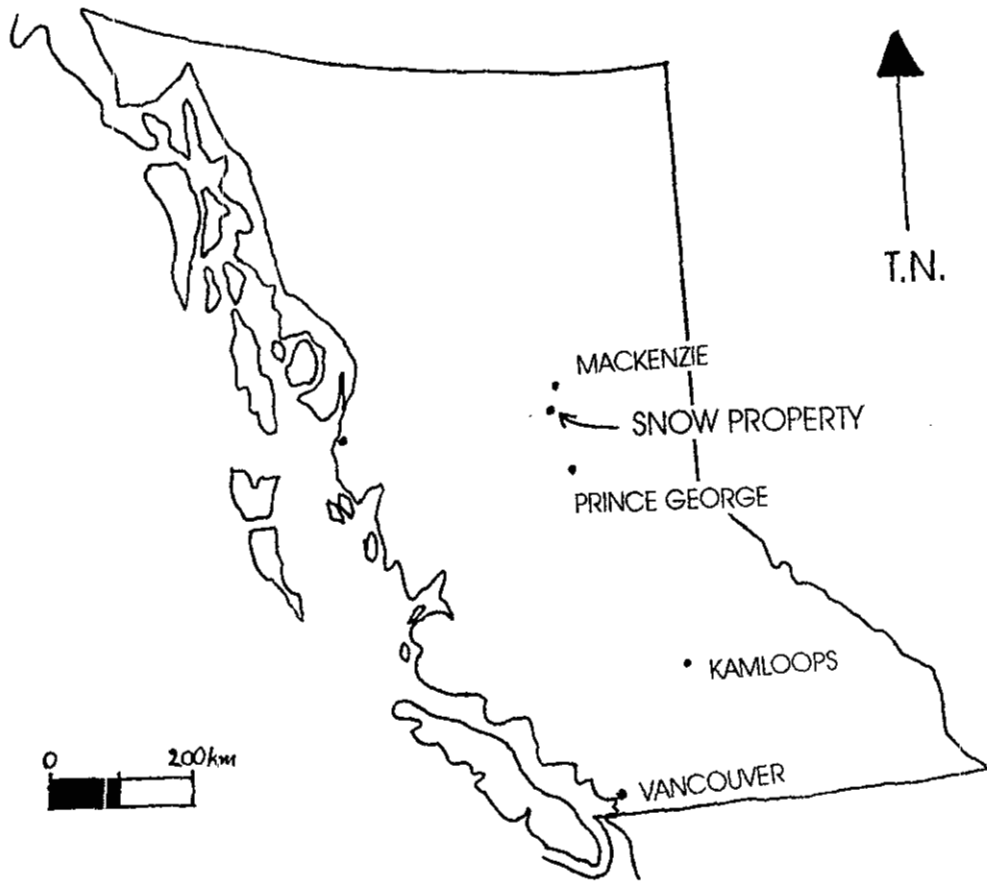
The Snow #1 - #4 claims lie approximately 42 km southwest of Mackenzie in the Cariboo Mining Division at Latitude 54°57'00" N and Longitude 123°14'46" W. The mineral claims are located on mapsheets NTS 93J14E and 93J14W.

Access to the property is by well maintained gravel road from Windy Point on Hwy 97. Windy Point is roughly 160 km north of Prince George. To travel to the Snow property one first travels along the Finlay FSR for 10 km then onto the Sabai Mainline for 4 km where the Holder Mainline branches off. The H26000RD road which bisects the Snow property leaves the Holder Mainline at the 26 km marker. The mineral showings are approximately 4 km along the H26000RD branch road.

1.2 Physiography

The Snow property is located along the northern limit of the Nechako Plateau in north-central British Columbia. The area has been extensively glaciated resulting in low lying areas having a rolling and hummocky topography due to the development of drumlins and kettles.

The mineral property covers low, lying hills and swampy areas around the shores of Snowshoe Lake. The lake's elevation is approximately 900 meters with roughly 50 meters of relief in the surrounding hills. The property has not been logged and the trees on it consist of white spruce, fir and lodgepole pine with relatively little understory. The climate is typical of the northern Interior of British Columbia with long cold winters and warm summers. The snow begins to accumulate in November and melts in May during a typical fall to spring cycle.



SNOW PROPERTY	
CARIBOO MINING DIVISION	93J14E, 93J14W
LOCATION MAP	
DRAWN BY DJB DATE JANUARY, 2001	FIGURE 1

1.3 Property Status

The Snow #1 - #4 mineral property consists of four two - post mineral claims staked in the Cariboo Mining Division (Figure 2). Table I lists the claims, record numbers and new expiry dates after when the work has been applied.

Claim	Record Number	New Expiry Date
Snow #1	380877	Sept. 14, 2006
Snow #2	380878	Sept. 14, 2006
Snow #3	380881	Sept. 14, 2006
Snow #4	380882	Sept. 14, 2006

1.4 History

The areas to the east and south of the Snow property was extensively worked by placer mining companies in the 1930's for placer gold and platinum (Minister of Mines 1933). After the federal government released a regional geochemical survey in 1986 various companies and prospectors have attempted to find the sources of the multi-element geochemical anomalies. Large mineral properties were staked and later allowed to lapse in the early 1990's.

Ezekiel Explorations Ltd completed a airborne magnetometer and electromagnetic survey over the mineral claims and they defined two belts which could possibly host ultramafic intrusions (de Carle, 1987).

The Snow property showings were discovered by the author and his assistant while prospecting along the recently constructed logging road bisecting the property in September, 2000.

2.0 Geology

The regional and local geology of the area around the Snow property is largely obscured by extensive glacial drift deposits from previous ice ages. Only along the recently constructed logging roads or along the river and stream canyons does one see rock outcrops.

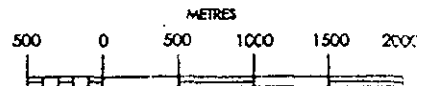
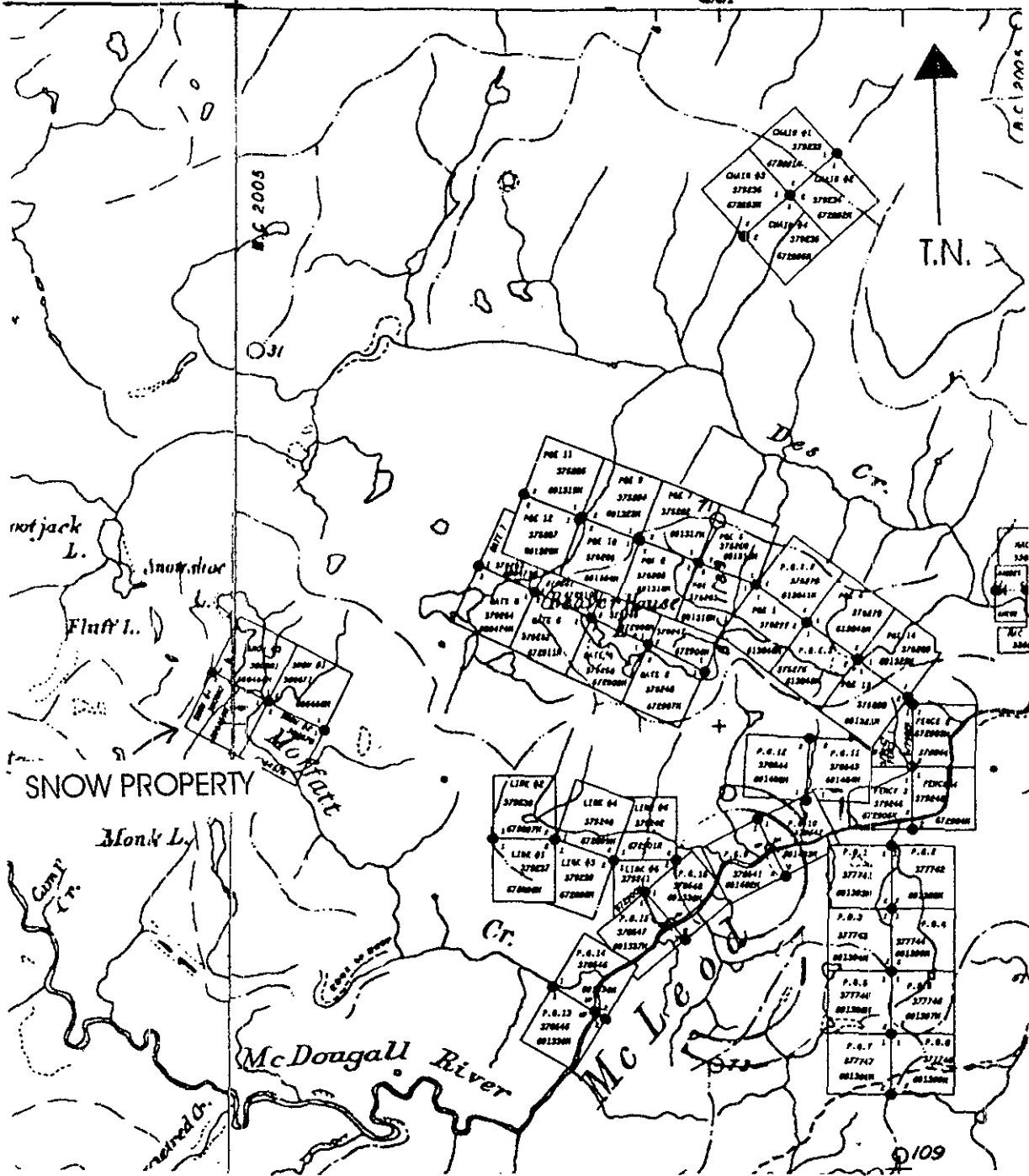
2.1 Regional Geology

The Snow property ultramafic intrusion is hosted by hornfelsed Middle and Upper

55°

123°15'00"

487872



SNOW PROPERTY	
CARIBOO MINING DIVISION	93J14E,93J14W
CLAIM MAP	
DRAWN BY DJB DATE JANUARY, 2001	
FIGURE 2	

Triassic Takla Group sediments. These sediments are the base of the Quesnel Terrane and they comprise a package of "slate, argillite, phyllite, fine-grained and minor coarse-grained greywacke and lesser amounts of tuff, tuffaceous siltite and argillite, limestone and limy greywacke" (Struik, 1994).

These sediments are stratigraphically overlain by the Takla Group mafic volcanics.

Feeding these volcanics are ultramafic dykes which are thought to trend northwesterly in two belts through the Snow property and immediately to the north.

The Quesnel Terrane has been thrust onto the Slide Mountain Terrane which consists of Carboniferous and Permian mafic volcanics and metamorphosed sediments. Distinction between this package of rocks and metamorphosed Quesnel Terrane is problematic.

The region is cut by prominent northwesterly and lesser northeasterly faults which relate to crustal extension of the Wolverine metamorphic core complex in the Carp Lake area 20 km south of the Snow property.

2.2 Property Geology

Most of the outcrops which have been examined on the Snow property are located along and around the logging road which bisects the property. This area is dominated by a pyroxenite and hornblendite intrusion which has hornfelsed the host rocks (Figure 3).

The hornfels consists of pale purple biotite hornfelsing of possible sedimentary Takla Group. The ultramafic intrusion is well exposed in road cuts as a complex intrusion consists of phases of gray-green pyroxenite, dark green, rusty weathering hornblendite and hornblendite with phenocrysts of pyroxene.

The exposed northwestern margin of the ultramafic intrusion is intensely ankerite carbonate altered. In this area, small shear faults with quartz slickensides cut the unit. 4.0 meters of mineralized ankerite carbonate altered ultramafic? are exposed in a road cut. The mineralization consists of chalcopyrite and possible nickeliferous pyrrhotite in a gangue of ankerite carbonate. Highly mineralized pieces have a black rind on the outside with malachite. Fresh, unweathered carbonate has a greenish tint to the cream coloured rock which is also locally mottled pale blue.

An outcrop located approximately 400 meters north of the Cu - Ni showing consists of variably altered diorite?. Fresh diorite has acicular hornblende crystals up to 10 mm long in a matrix of feldspar. Hydrothermal altered diorite consists of sericite altered hornblende with up to 5% pyrrhotite.

3.0 Geochemistry

The chip samples from hand dug trench 1 in the road cut are highly anomalous in Ni, Cu, Co and Cr. The results are tabulated below in Table II; the samples go from north to south.

Table II

Sample Number	Interval (m)	Cu (ppm)	Ni (ppm)	Co (ppm)	Cr (ppm)
M605026	0.0 - 1.0	4750	5210	188	481
M605027	1.0 - 2.0	2150	2200	113	805
M605028	2.0 - 3.0	1890	1230	78	734
M605029	3.0 - 4.0	745	745	47	498

The anomalous samples consist of ankerite carbonate altered ultramafic rock with black rind coatings with malachite and possible nickeliferous pyrrhotite. Chip samples from area 2 returned only background values in copper and nickel.

4.0 Geophysical Survey

A magnetometer survey was conducted along the logging road H26000RD which crosses the Snow #2 claim. The survey used a Scintrex MP-2 proton precession magnetometer and readings were collected every 25 meters along the road (Figure 4).

The total field magnetic data were corrected for diurnal variations by having the operator return to the base station after the end of the survey. Then the difference in the two readings of the base station was weighted with respect to time and subtracted or added to the raw data. The values presented in the diagram are absolute values.

The magnetic readings across the pyroxenite / hornblendite dyke are highly variable. A difference of 500 gammas was noted when the operator past an outcrop of magnetic hornblendite to that of buried ultramafic intrusive. Other areas of ultramafic intrusive which do not have disseminated magnetite have subtle variations in the total field magnetic values.

5.0 Conclusions

Tholeiitic copper - nickel mineralization has been discovered on the Snow property related to a hornblendite and pyroxenite dyke. The ultramafic dyke has hornfels the host sedimentary rocks and the possibly more primitive portions of the dyke have been hydrothermally altered to ankerite carbonate.

6.0 Recommendations

The Snow property should possibly be prospected along the strike of the ultramafic intrusion to determine the extent of copper and nickel mineralization.

7.0 References

de Carle, B. J. 1987. Report on Combined Helicopter Borne Electromagnetic, Magnetic and VLF - EM Survey, G-North and Plasway Properties, Cariboo Mining Division, McLeod River Area, British Columbia; Assesment Report 16269, 31p.

Minister of Mines, 1933. Annual Report of the Minister of Mines 1933, pages A100 - A104.

Struik, L.C. 1994. Geology of the McLeod Lake map area (93J), British Columbia; Geological Survey of Canada, Open File 2439, 18p.

8.0 Cost Statement

Wages	Between Sept. 16 and Sept. 24, 2000	
	4.5 days by D. Bridge (Geologist) @ \$250.00/day	\$1125.00
	2.5 days by M. McDonald (Prospector) @ \$100.00/day	250.00
Food and Accommodation	7 mandays @ \$45.00/manday	315.00
Vehicle	(4x4 pickup) 5 days at \$100.00/day	500.00
Assays	11 chip samples @ 24.45/sample	268.95
Magnetometer rental		172.75
Supplies		300.00
Report		400.00
	Total	\$3331.70

9.0 Statement of Qualifications

I, David Bridge, hereby certify that:

1. I am an independent geologist residing at 613 - 2016 Fullerton Ave., North Vancouver, BC, V7P 3E6
2. I am a graduate of the University of British Columbia with a Bachelor degree in geological engineering in 1990 and a Masters in 1994.
3. I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I have practiced my profession since 1994 as a geologist for junior and major mineral exploration companies.
5. This fieldwork was done by me during the month of September, 2000

January 24, 2001
North Vancouver

David Bridge, MASC, P. Geo



10.0 Appendix : Assay Certificates



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: BRIDGE, DAVID

613 - 2016 FULLERTON AVE.
 NORTH VANCOUVER, BC
 V7P 3E6

Project: MCLEOD
 Comments: ATTN: DAVID BRIDGE

Page Number :1-A
 Total Pages :1
 Certificate Date: 12-OCT-2000
 Invoice No. :I0030481
 P.O. Number :
 Account :KFU

CERTIFICATE OF ANALYSIS

A0030481

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
M605026	205 226	50	3.8	0.92	< 2	< 10	180	0.5	6	10.85	2.0	188	481	4750	8.97	< 10	< 1	< 0.01	< 10	6.29
M605027	205 226	30	2.6	2.13	< 2	< 10	160	0.5	< 2	10.15	1.5	113	805	2150	6.19	< 10	< 1	0.03	< 10	7.48
M605028	205 226	30	1.8	1.31	< 2	< 10	140	0.5	8	4.13	0.5	78	734	1890	5.29	< 10	1	0.02	< 10	6.37
M605029	205 226	20	1.6	0.50	< 2	< 10	130	0.5	< 2	13.05	1.0	47	498	745	4.64	< 10	< 1	0.01	< 10	6.78
M605030	205 226	< 5	1.2	0.31	< 2	< 10	70	< 0.5	< 2	14.35	0.5	29	490	91	3.56	< 10	< 1	0.01	< 10	7.03
M605031	205 226	< 5	1.0	0.50	< 2	< 10	80	< 0.5	< 2	11.45	0.5	53	642	67	4.59	< 10	< 1	< 0.01	< 10	6.24

CERTIFICATION: _____



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Page Number :1-B
 Total Pages :1
 Certificate Date: 12-OCT-2000
 Invoice No. : I0030481
 P.O. Number :
 Account : KFU

CERTIFICATE OF ANALYSIS	A0030481
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SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
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M605026	205 226	940	< 1	< 0.01	5210	140	8	0.24	40	17	1795	< 0.01	< 10	< 10	65	< 10	38
M605027	205 226	1000	< 1	< 0.01	2200	310	6	0.12	10	26	1170	< 0.01	< 10	< 10	85	< 10	50
M605028	205 226	750	< 1	0.01	1230	250	6	0.31	2	20	395	0.04	< 10	< 10	59	< 10	38
M605029	205 226	870	< 1	< 0.01	745	210	4	0.04	16	27	1525	< 0.01	< 10	< 10	59	< 10	26
M605030	205 226	905	< 1	< 0.01	290	150	2	< 0.01	14	32	1155	< 0.01	< 10	< 10	54	< 10	18
M605031	205 226	980	< 1	< 0.01	506	160	4	0.03	18	25	852	< 0.01	< 10	< 10	48	< 10	24

CERTIFICATION: _____



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Page Number : 1-A
 Total Pages : 1
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 Invoice No. : I0033726
 P.O. Number :
 Account : KFU

CERTIFICATE OF ANALYSIS A0033726

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M 605034	205 226	< 5	< 0.2	0.72	2	< 10	70	0.5	< 2	7.41	0.5	37	164	113	5.84	< 10	< 1	0.03	< 10	3.41
M 605035	205 226	< 5	0.2	0.55	8	< 10	70	0.5	< 2	8.52	0.5	43	133	164	6.33	< 10	< 1	0.02	< 10	3.62
M 605036	205 226	< 5	0.4	0.60	22	< 10	50	< 0.5	< 2	8.83	0.5	33	276	61	3.91	< 10	< 1	< 0.01	< 10	4.52
M 605037	205 226	< 5	0.2	0.54	22	< 10	70	0.5	< 2	9.78	< 0.5	39	280	129	3.91	< 10	< 1	0.01	< 10	4.67
M 605038	205 226	< 5	< 0.2	0.52	6	< 10	70	0.5	< 2	9.16	0.5	44	491	51	5.52	< 10	< 1	0.03	< 10	3.91

CERTIFICATION:



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Project : MCLEOD
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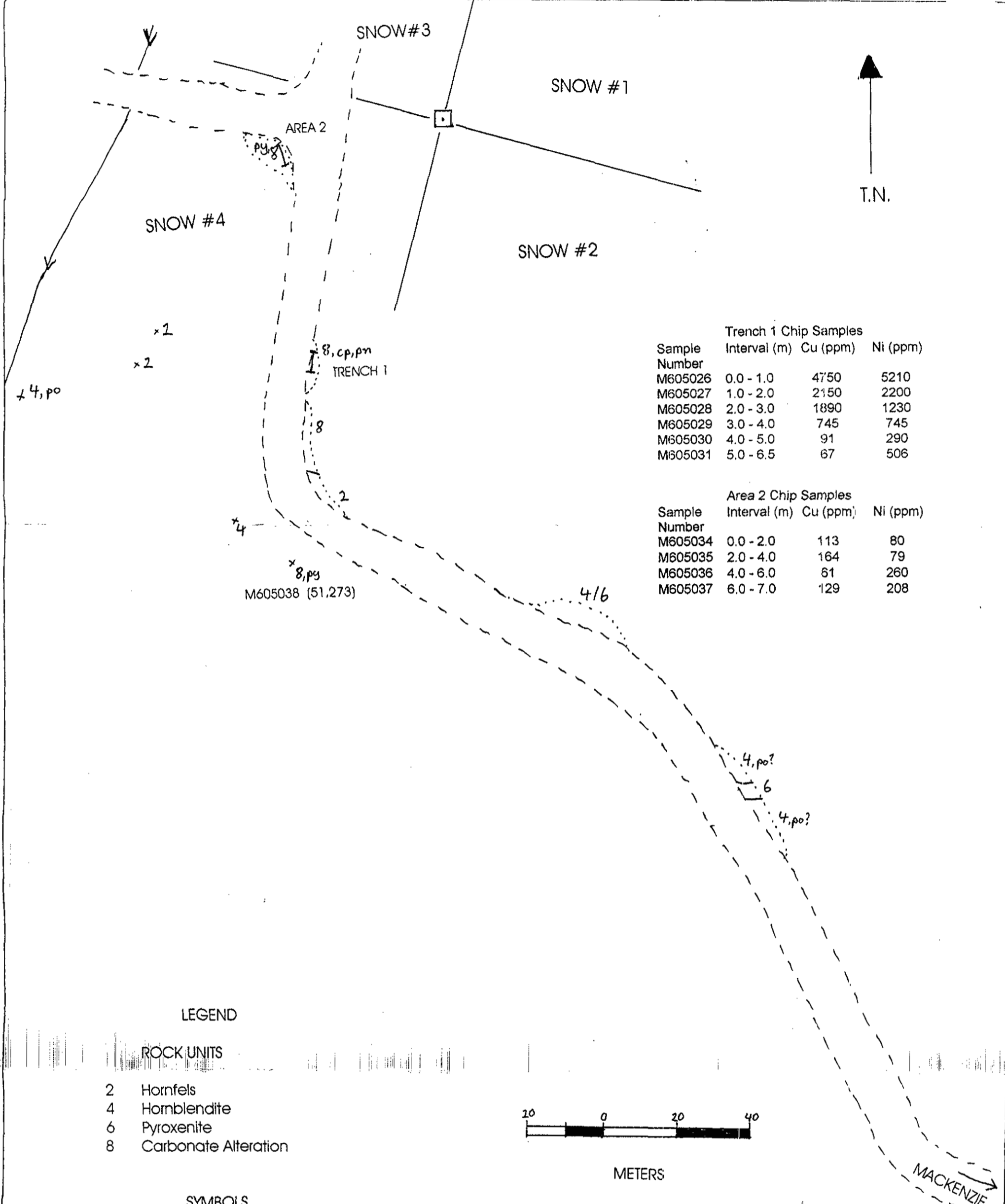
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 Account : KFU

CERTIFICATE OF ANALYSIS

A0033726

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M 605034	205 226	1070	< 1	< 0.01	80	340	14	0.16	24	33	341	< 0.01	< 10	< 10	233	< 10	62
M 605035	205 226	1080	< 1	< 0.01	79	150	2	0.63	18	32	406	< 0.01	< 10	< 10	226	< 10	54
M 605036	205 226	1065	< 1	< 0.01	260	360	< 2	0.29	104	22	584	< 0.01	< 10	< 10	92	< 10	28
M 605037	205 226	1030	< 1	< 0.01	208	220	< 2	0.18	14	32	515	< 0.01	< 10	< 10	102	< 10	36
M 605038	205 226	1745	< 1	< 0.01	273	200	2	1.45	206	46	376	< 0.01	< 10	< 10	138	< 10	48

CERTIFICATION:



Sample Number	Interval (m)	Cu (ppm)	Ni (ppm)
M605026	0.0 - 1.0	4750	5210
M605027	1.0 - 2.0	2150	2200
M605028	2.0 - 3.0	1890	1230
M605029	3.0 - 4.0	745	745
M605030	4.0 - 5.0	91	290
M605031	5.0 - 6.5	67	506

Sample Number	Interval (m)	Cu (ppm)	Ni (ppm)
M605034	0.0 - 2.0	113	80
M605035	2.0 - 4.0	164	79
M605036	4.0 - 6.0	61	260
M605037	6.0 - 7.0	129	208

8, cp, pn
TRENCH 1

8, ps
M605038 (51,273)

LEGEND

ROCK UNITS

- 2 Hornfels
- 4 Hornblendite
- 6 Pyroxenite
- 8 Carbonate Alteration

SYMBOLS

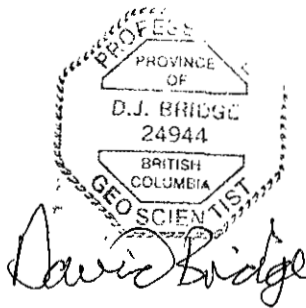
- x Outcrop
- Stream
- ≡≡ Road
- Claim post
- Trench
- Geological Contact
- x M605038 Grab Sample (Cu, ppm Ni, ppm)

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

26,461

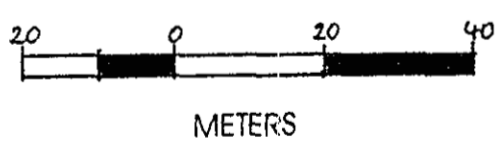
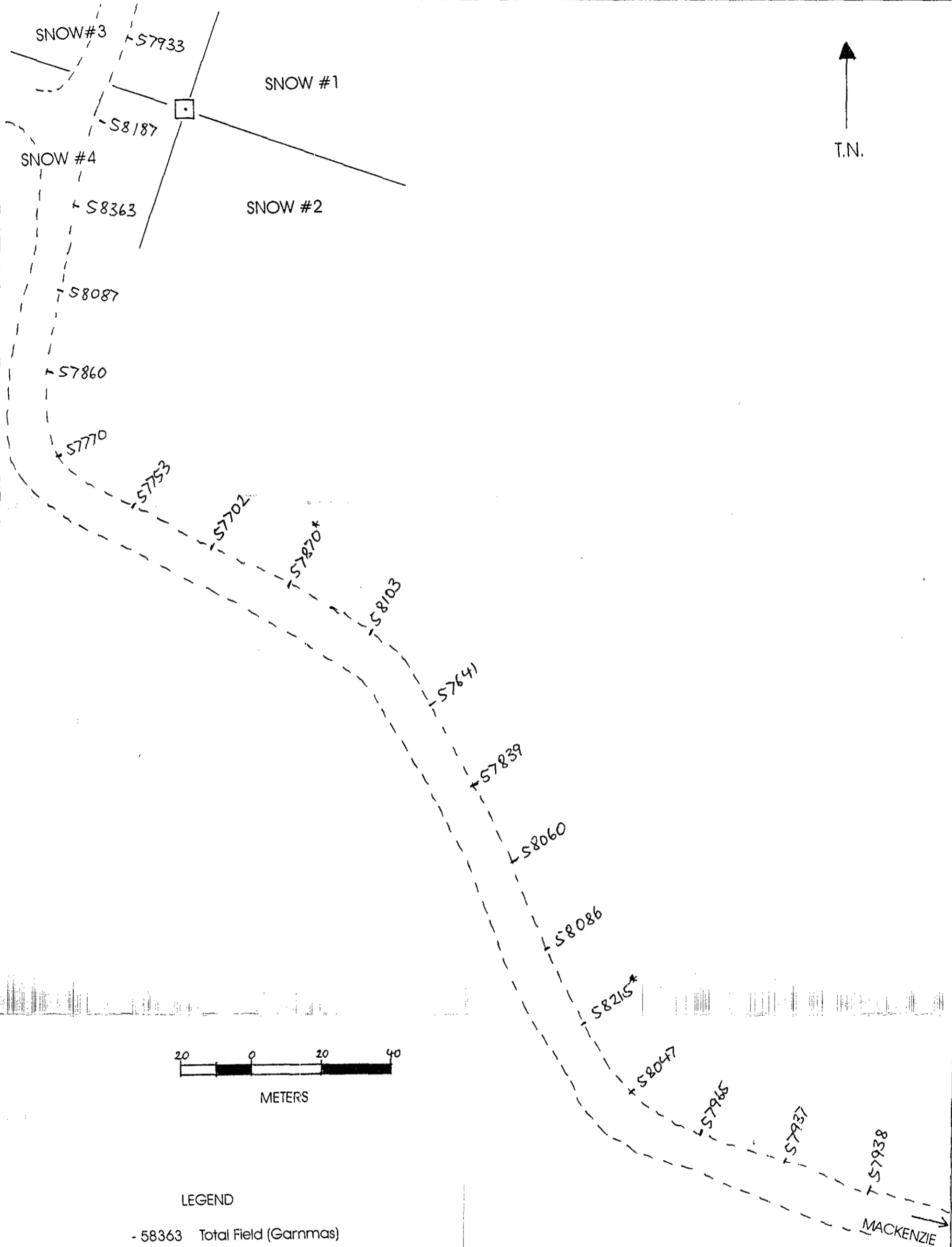


METERS



Dave Bridge

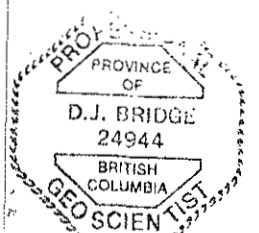
SNOW PROPERTY	
CARIBOO MINING DIVISION	93J14E, 93J14W
GEOLOGY AND SAMPLE PLAN MAP	
DRAWN BY DJB DATE JANUARY, 2001	FIGURE 3



LEGEND

- 58363 Total Field (Gammmas)
- 58215* Total Field reading affected by culvert
- Claim post

— Road
**GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT**



David Bridge

SNOW PROPERTY	
CARIBOO MINING DIVISION	93J14E, 93J14W
TOTAL FIELD MAGNETIC SURVEY	
<small>DRAWN BY DJB DATE JANUARY, 2001</small>	<small>FIGURE 4</small>

26,461