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GEOLOGICAL AND GEOCHEMICAL REPORT

**ON THE
MAL PROPERTY**

**Liard Mining Division, British Columbia
NTS 104G/2
Latitude: 57° 12' 49" N
Longitude: 130° 35' 01" W**

on behalf of
SOLOMON RESOURCES LIMITED
Vancouver, B.C.

by
Terry L. Tucker, B.Sc.
KEEWATIN ENGINEERING INC.
#800 - 900 West Hastings Street
Vancouver, B.C.
V6C 1E5

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,829

October 25, 1991

Keewatin Engineering Inc.

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1.0 SUMMARY

The Mal property consists of one (1) claim (20 units) in the Bob Quinn Lake area, 150 kilometres northwest of Stewart in northwestern British Columbia. The property is situated 25 kilometres west of the Stewart-Cassiar Highway.

The Mal property was subjected to a reconnaissance rock, soil and stream silt geochemical survey in 1991. The area is underlain by Upper Triassic sediments and volcanics which display potential for hosting base and precious metal mineralization.

The property had previously been evaluated by Cominco Ltd. in 1988 and 1989 and by Solomon Resources Ltd. in 1990. A small gossan localized at the contact between sediments and volcanics in the south-central portion of the property was the focus of previous exploration programs. Cominco completed a soil contour below the gossan and outlined a 200 metre long gold (96-600 ppb) and silver (1.3 - 4.4 ppm) anomaly. The gold-silver mineralization is hosted within narrow discontinuous quartz vein and sulphide bearing shear zones and fractures in both volcanic and sedimentary rocks.

Resampling of this area and the extension of the soil contour during the 1991 program confirmed their results. Soil samples were anomalous over 250 metres with samples ranging from 71 ppb gold up to 440 ppb gold in the same area as Cominco anomaly. The extension of the soil contour to the north failed to identify any further significant anomalies. The most significant grab sample is 91SC413MR008 which returned 0.296 oz/t Au and 10.18 oz/t Ag.

In addition to the gossan evaluation, prospecting and sampling was done in areas of the property that were not previously examined. Gossans on the west side of the valley were examined. No significant geochemical anomalies or mineralized showings were outlined.

2.0 INTRODUCTION

The Mal property is located 25 kilometres northwest of Bob Quinn Lake. The property is held by Cominco Ltd. and was optioned to Solomon Resources Limited in 1990.

The property is underlain by Upper Triassic sedimentary and volcanic rocks. A large gossan found at the contact between the sediments and volcanics hosts a number of narrow and discontinuous quartz \pm sulphide bearing shear zones.

Keewatin Engineering Inc. was commissioned by Solomon Resources Ltd. to carry out an exploration program in 1991 on the Mal property. The objective was to evaluate portions of the property which have not been prospected to date and to investigate the known gossan.

2.1 Location and Access

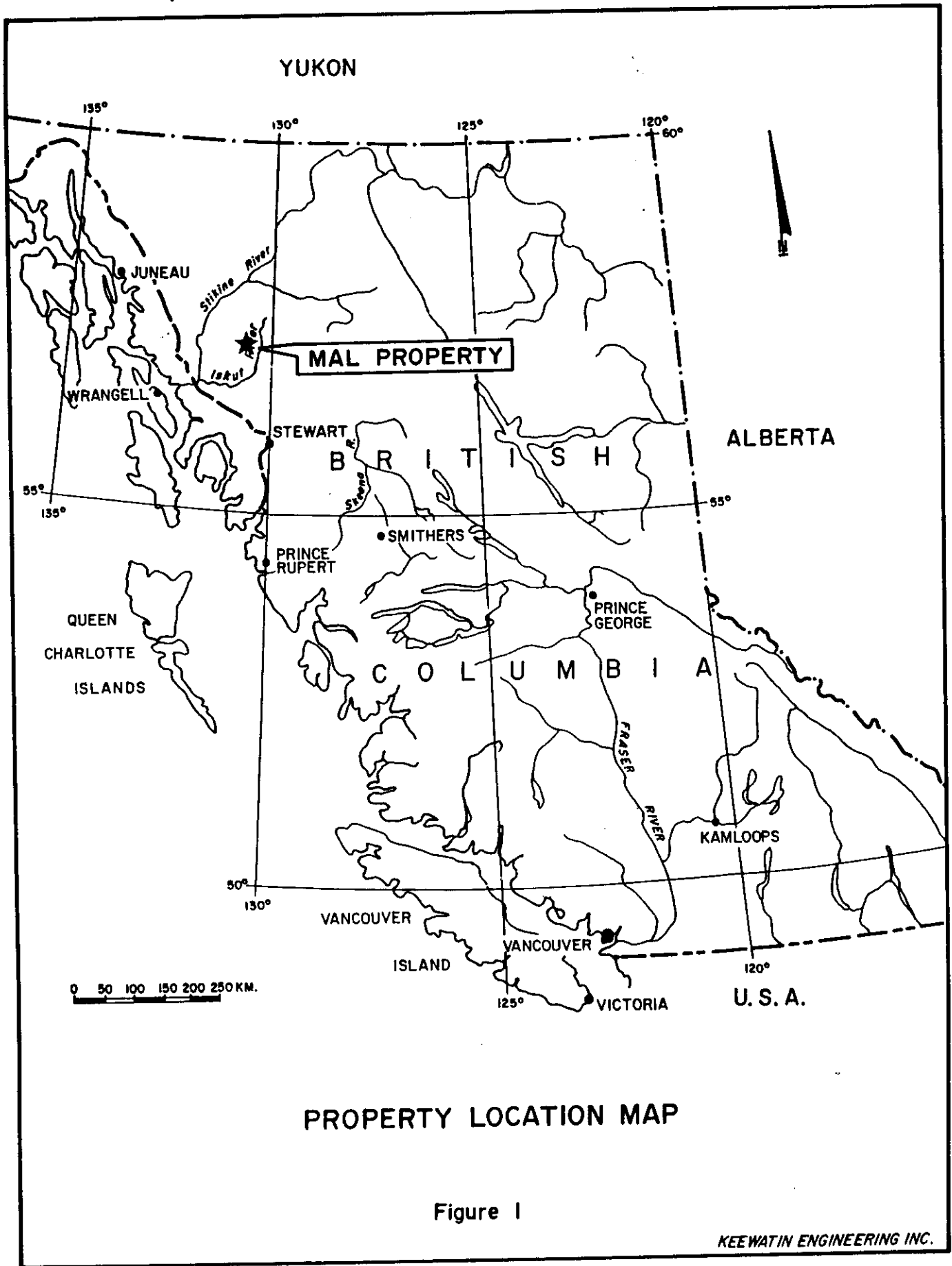
The Mal property is located in northwestern British Columbia (Figure 1), approximately 150 kilometres northwest of the town of Stewart and 25 kilometres northwest of Bob Quinn Lake. The claim is situated within NTS map sheet 104G/2 and is centred about 57° 12' 49" North latitude and 130° 35' 01" West longitude.

Access to the area is limited to helicopter. Vancouver Island Helicopters have a permanent base at Bob Quinn Lake on Highway 37, the Stewart-Cassiar Highway. Scheduled air service is available to the Bob Quinn airstrip from Smithers.

An exploration camp could be established on the property. The 1991 exploration program was based out of Keewatin's Arctic property field camp on More Creek.

2.2 Physiography and Climate

The claim covers a north-trending, narrow and steep sided valley which is mostly occupied by glacial snow and ice. Elevations range from 6,900 feet in the southwest corner to,



PROPERTY LOCATION MAP

Figure 1

approximately, 4,700 feet in the north-central portion of the property (Figure 2). The claim is located above the treeline and vegetation is sparse.

The climate is typified by cold, snowy winters and short, warm and wet summers. Snow accumulations probably range from 4 to 10 metres in depth.

2.3 Property Status and Ownership

The Mal property comprises one mineral claim of 20 units located in the Liard Mining Division. The claim is illustrated on Figure 3 and claim information is outlined below:

TABLE 1 - CLAIM SUMMARY				
Claim Name	No. of Units	Record No.	Owner	Expiry Date
Mal	20	223164	Cominco Ltd.	July 20, 1992

The Legal Corner Post was located during the 1991 season and is as plotted on the claim map. The property was optioned to Solomon Resources Limited with offices at 800 - 900 West Hastings Street, Vancouver, B.C., V6C 1E5 on June 4, 1990.

2.4 History of Exploration

The area drained by the upper reaches of the Iskut, Stikine, Unuk and Bell-Irving Rivers has been explored for gold since the late 1800's when prospectors passed through the region on their way to the interior. Only limited exploration was carried out within the region until the porphyry copper "boom" days (1955-1970), which led to the discovery of the large porphyry copper-gold Galore Creek deposit. Numerous small showings and prospects were documented during this period.

98

99

130° 40'

400

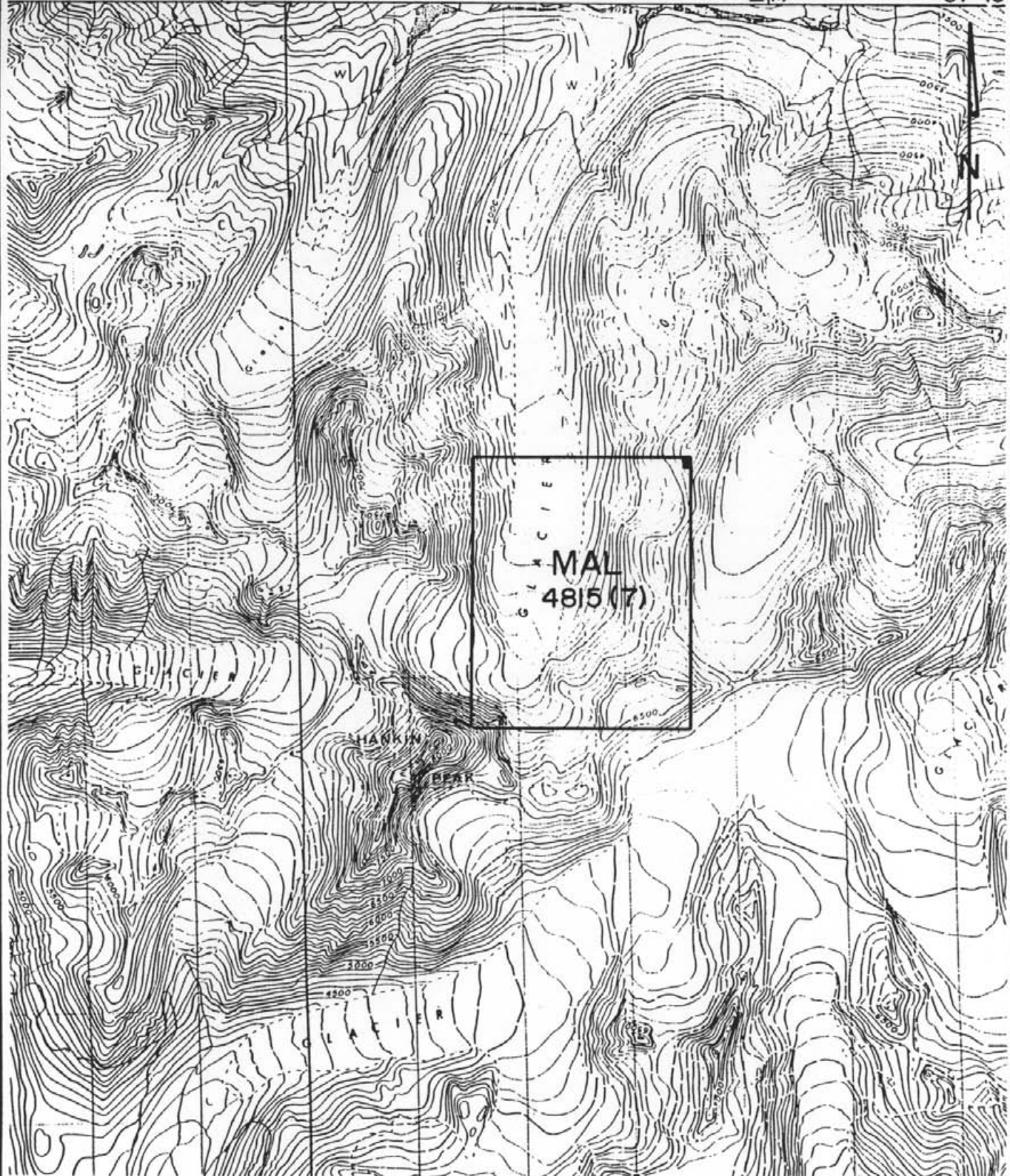
01

02

03

130° 55'

57° 15'

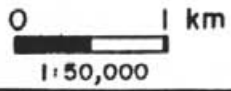


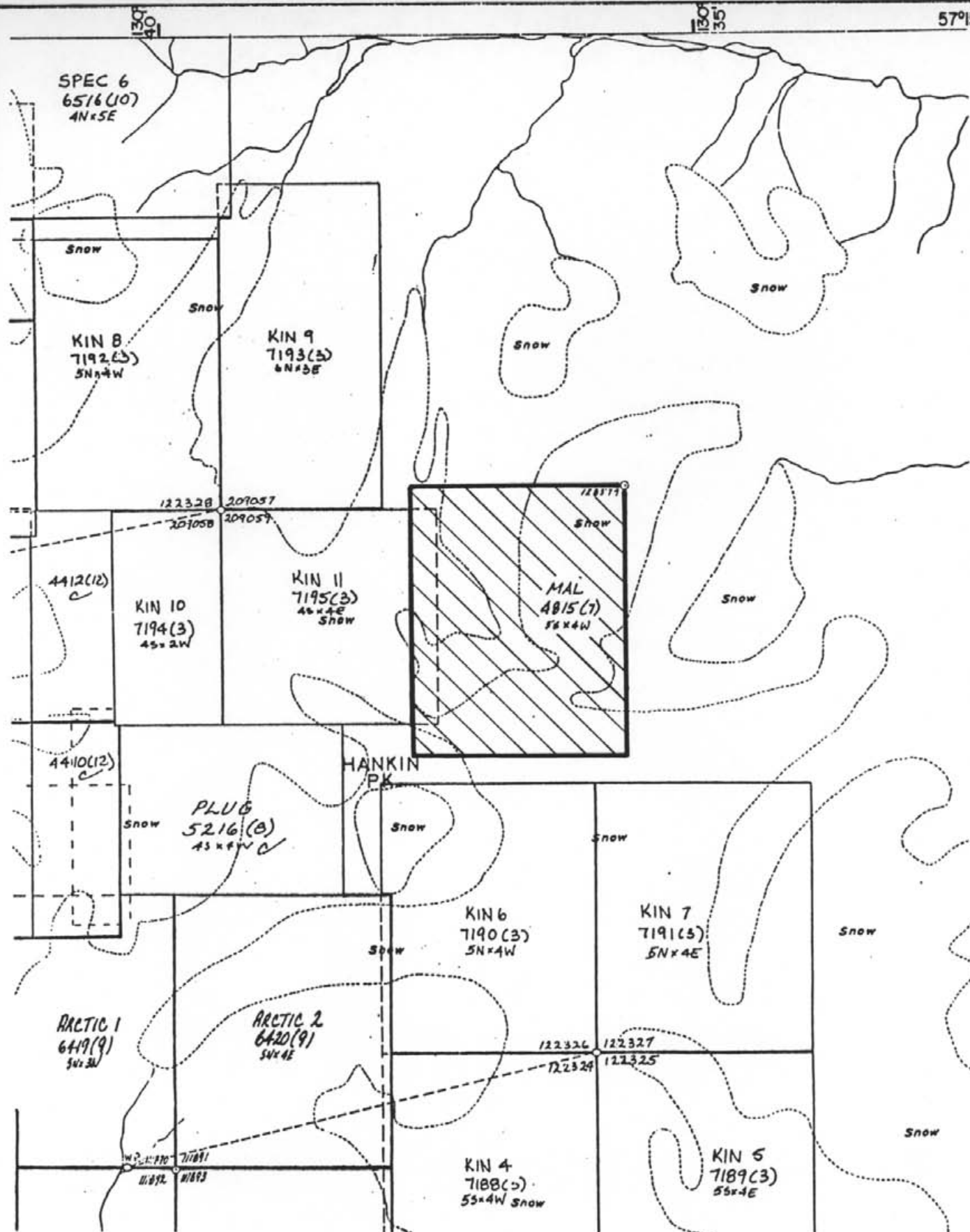
NTS 104G/2E

■ Legal corner post (LCP)

TOPOGRAPHIC CLAIM MAP

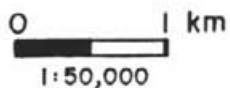
Figure 2





NTS 104G/2E

⊙ Legal corner post (LCP)



CLAIM MAP

Figure 3

Following a dramatic increase in precious metal prices in 1979, several companies carried out exploration programs in the region. Subsequently, metal prices dropped and exploration was curtailed.

During the late 1980's gold exploration again intensified in the region and resulted in discoveries on Lac Mineral's Hank property, Kestral's KRL property and Avondale's Forrest property.

Regional governmental mapping was completed by the G.S.C.'s J.G. Souther during the late 1950's and 1960's. Portions of the Forrest Kerr Creek and More Creek areas were the subject of a detailed structural geology mapping program commissioned by the B.C. Hydro and Power Authority (1980-1983).

The Mal claim was staked by Cominco in July of 1988, following the discovery of several fine-grained, silicified boulders which reportedly assayed up to 4.39 grams/tonne gold (Wescott, 1989). During 1988, Cominco carried out a small prospecting and geochemical sampling program. A total of 40 soil samples, analyzed for Au, Ag, Cu, Pb, Zn and 11 rock samples, analyzed for Au, Ag, Cu, were collected.

During 1989, Cominco collected a total of 13 rock samples and mapped (1:10,000) a small portion of the property (Wescott, 1989).

In 1990, Solomon Resources Ltd. collected 18 rock samples and geologically mapped (1:10,000) the south central portion of the property (Pegg, 1990).

2.5 Objectives of the 1991 Work Program

The objectives of the 1991 program was to evaluate both the gold and base metal potential of the property. The primary goal of this program was to evaluate areas of the property not previously prospected. A secondary goal was to re-evaluate the known gossan.

3.0 GEOLOGY

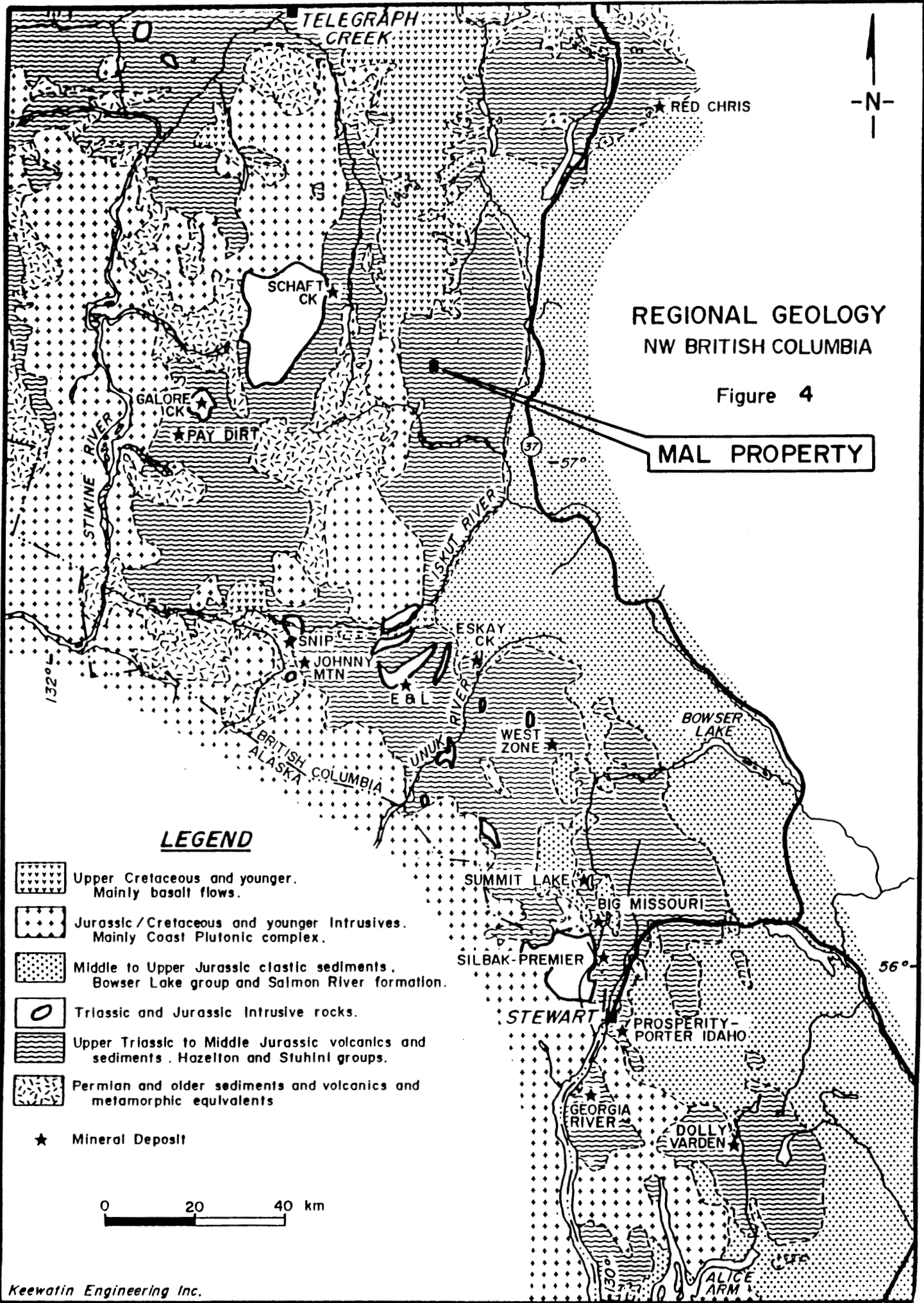
3.1 Regional Geology

The area lies near the western edge of the Intermontane Belt of the Canadian Cordillera, where it parallels the Coast Plutonic Complex (Figure 4). The area includes four, unconformity bounded, tectonostratigraphic assemblages: 1) Paleozoic Stikine Assemblage; 2) Triassic-Jurassic volcano-plutonic complexes of Stikinia; 3) Middle and Upper Jurassic Bowser overlap assemblage; and 4) Tertiary Coast Plutonic Complex. This section of the Intermontane Belt forms the west limb of the "Stikine Arch", a roughly horseshoe shaped area of Upper Triassic to Jurassic stratigraphy that hosts most of the significant mineral deposits in northwestern B.C. and the Toadogone gold camp.

The Paleozoic Stikine Assemblage is the oldest assemblage and contains three distinct, mainly volcanic-carbonate divisions: Early Devonian limestone and intermediate to felsic volcanics, Mississippians bioclastic limestones, and Permian fragmental volcanics and limestone. These rocks are generally metamorphosed and highly deformed.

The Triassic-Jurassic volcano-plutonic complexes (Stewart Complex) are comprised of both the Triassic Stuhini Group and the Jurassic Hazleton Group. The Stuhini consists of limestone and mafic volcanics deposited in an island arc environment. These rocks host the Snip and Johnny Mountain structural gold deposits. Hazleton Group rocks consist of andesitic breccias/lavas, felsic tuffs/breccias, and maroon-green volcanic sediments (siltstone, greywacke, conglomerate and black shale) also of island arc affinity. Black shales (Eskay Creek facies) overlying felsic volcanics (Mt. Dilworth Formation) host the Eskay Creek gold deposits.

Sub-volcanic intrusions accompany most of the volcanic centres of the Mesozoic island arc complexes and range from Alaskan type ultramafics to felsic dykes. Distinctive porphyritic dykes link Upper Triassic and Lower Jurassic volcanics with their plutonic equivalents. Many of the significant mineral deposits in the Stewart Complex are found to have a close association with volcanic centres.



The Middle and Upper Jurassic Bowser Overlap Assemblage is predominantly comprised of turbidite black clastics deposited in the Bowser Basin, formed as a result of uplift to the west due to emplacement of the Coast Range Intrusives.

The Tertiary Coast Plutonic Complex consists of post-tectonic, felsic plutons. Eastward younging of strata and local zones of high strain attest to intrusion and uplift of the complex.

Tertiary to Recent subaerial volcanics cover local, low lying areas.

3.2 Property Geology

The Mal property is underlain by a package of Upper Triassic sediments and volcanics (Figure 5). Off the property to the west are the Jurassic/Cretaceous diorite intrusives of the Coast Plutonic complex. To the east are the Middle-Upper Jurassic Bowser Lake sediments.

Map Units

Unit 1 - Sediments

Unit 1a - Sandstone, siltstone, shale, wacke and argillite. Bedding thicknesses in the argillites are generally 5 - 10 cm. The sediments are locally well fractured and numerous discontinuous carbonate veins are found cross-cutting the sediments. Pyrite and minor magnetite are found disseminated in the coarser grained sediments. Minor amygdaloidal basalt flows were found within the sedimentary package.

Unit 1b - Limestone. Grey/white weathered, fine grained grey limestone. No visible bedding. The limestone locally displays a sharp contact with the greywacke.

Unit 1c - Greywacke. Medium grained, dark black to grey with minor light grey weathered surfaces. Bedding thicknesses of up to 50 cm are found in the greywacke.

Unit 1d - Conglomeratic greywacke. The clasts are angular to well rounded, monolithic (siltstone clasts) and range up to 20 cm in diameter. Locally, argillaceous material comprises up to 30% of the rock. Minor amounts of greywacke with grain sizes up to 1.5 mm are found locally interbedded with 1 to 2 mm thick argillites.

Unit 2 - Porphyritic Andesite. This unit is comprised of 30% white to green feldspar lathes, 30% elongate mafic phenocrysts and a fine green matrix. Several small shears (<10 cm wide) commonly flanked by 15 - 30 cm silicified zones are present. Commonly associated with the shears are 15 - 100 cm long lenses of quartz with intense pyritization and minor blebs of glauconite. The andesite is locally intensely bleached and argillically altered at or near the volcanic sedimentary contact.

Unit 3 - Maroon Andesite. This unit of andesitic composition weathers to a maroon colour.

Unit 4 - Andesitic Agglomerate. This unit is a poly lithic agglomerate which contains up to 60% rounded to subrounded fragments (to 15 cm in diameter) and euhedral feldspar and mafic phenocrysts in a fine grained medium green quartz feldspar matrix.

3.3 Mineralization

Only the previously known Gossan Zone was found to be significantly mineralized on the Mal property. The location of this showing is plotted on Figure 5.

3.3.1 Gossan Zone

A 200 by 400 metre weakly gossanous alteration zone is found on the Mal property. The zone is related to the contact between a sedimentary and volcanic package. Alteration consists of silicification and pyritization.

Two styles of gold and silver bearing mineralization have been recognized within the Gossan Zone.

- 1) Within the porphyritic andesite, lenses of quartz, glauconite, jarosite and pyrite are present along shears averaging 0.2 metres and up to 1.0 metre in width. A 15-30 cm wide, discontinuous silicified zone commonly envelopes this shear zone. Cominco sampling of these zones has returned up to 2,300 ppb Au over 0.40 metres (WR88206) (Westcott, 1989). Pegg (1990) reports a locality with 1 to 3% chalcopyrite and 1% sphalerite in an irregular 20 cm wide carbonate breccia. Traces of arsenopyrite were also noted. The shear related mineralization appears to be slightly concentrated at the junction of fracture and shear sets which have variable attitudes. Grab sampling returned values up to 1,840 ppb (0.057 oz/t) gold, 4,536 ppm arsenic (90TMC004); 8.9 ppm silver, 198 ppm lead (90LMR002); 1,530 ppm copper, 1,858 ppm lead (90TMC002) (Pegg, 1990).
- 2) Silicified and pyritized zones associated with fractures and shears in the sediments yielded values from chip sampling of up to 2,640 ppb Au and 7.2 ppm Ag over 2.0 metres (Cominco - WR88210) (Westcott, 1989).

The 1991 exploration program on this Gossan Zone returned a number of significant results. A grab sample of a quartz vein/shear zone in an andesite returned 0.296 oz/t gold, 10.18 oz/t silver, 1,106 ppm copper, 3,347 ppm lead, 7,231 ppm zinc, >2,000 ppm arsenic and 386 ppm antimony (91SC413MR008). Fine grain pyrite and grey sulphides (arsenopyrite?) were noted. Another grab sample taken in the same area returned anomalous values of 15.4 ppm silver, 306 ppm arsenic and 366 ppb gold (91SC413MR007).

Float sample 91FD413MF001 was collected from an altered silicified volcanic with 2% pyrite. This sample returned 19.0 ppm silver, 1,228 ppm arsenic, 1,999 ppm antimony and 153 ppm gold. These samples confirmed the presence of gold and silver mineralization in narrow, discontinuous and sporadic shear zones in the Gossan Zone.

The reconnaissance exploration on other areas throughout the property did not discover any additional showings.

4.0 1991 EXPLORATION PROGRAM

Field work on the Mal property was carried out on August 27 and 28, 1991. This work consisted of helicopter supported reconnaissance prospecting and soil/stream sediment geochemical surveys.

4.1 Prospecting and Mapping

Most of the remaining traversable areas of the Mal property have been evaluated. Mapping/prospecting traverses were plotted on a digitized 1:10,000 base map which was derived from a 1:50,000 topo map. Approximately six kilometres of traverse was carried out on the property during the program.

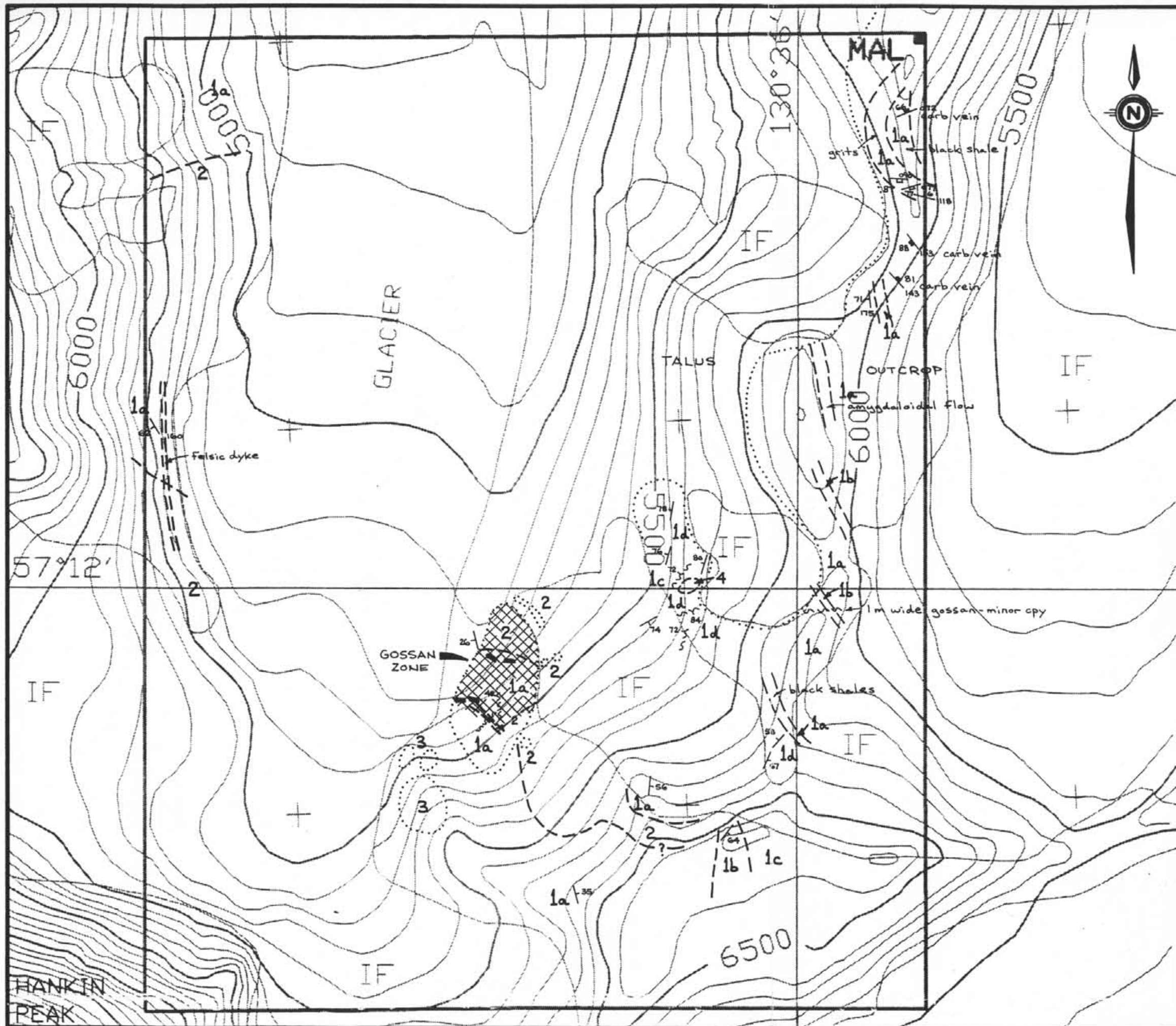
Geological information obtained on these traverses is found on Figure 5.

4.2 Geochemistry

4.2.1 Sampling Procedures

A total of 23 rock samples, 29 soil samples and 3 silt samples were collected on the Mal property during the 1991 field season. Control for sample positions was obtained from 1:10,000 topographic maps, compass, topochain and altimeters. All sample sites were marked with metal tags and flagging. Sample locations are plotted on Figure 6. The sample descriptions including geochemical results are included in Appendix IV. The geochemical results are plotted on Figures 7 through 9.

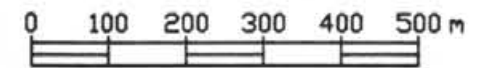
The soil samples were collected at 50 metre intervals along the 5,300 foot contour. In total, 1.5 kilometres of contour traverse was completed. The soil samples were collected from B horizon with a grubhoe.



LEGEND

- 4 Andesitic Agglomerate
 - 3 Maroon Andesite
 - 2 Porphyritic Andesite
 - 1 Sediments
 - 1a - siltstones, grits/wackes, shale
 - 1b - limestone
 - 1c - greywacke
 - 1d - conglomeratic greywacke
-
- Outcrop
 - Bedding
 - Fracture
 - Vein
 - Shear / Fault
 - Silicified, pyritized zone
 - - - Geological contact

Note: from Pegg, 1990 ; Wescott 1989 and 1991 field work .

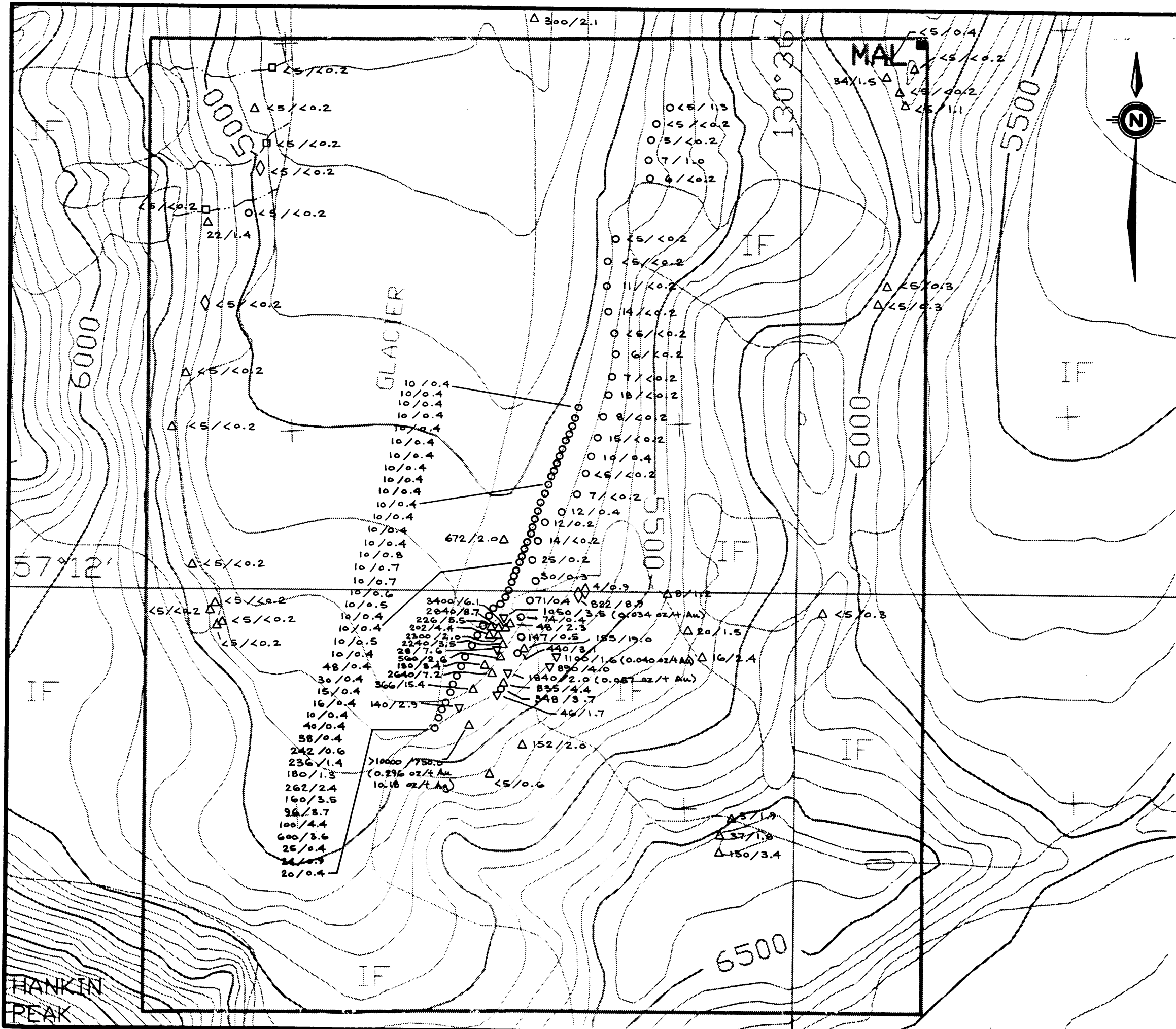


SOLOMON RESOURCES LTD.

MAL PROPERTY

PROPERTY GEOLOGY

DATE: Nov. 1991	NTS: 104G/2E
PROJECT: 413	BY: TL TUCKER
SCALE: 1:10,000	
Keewatin Engineering Inc.	FIG. No. 5



LEGEND

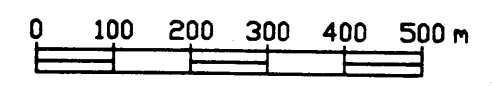
- Soil sample
- Silt sample
- △ Rock sample
- ▽ Rock chip sample
- ◇ Rock float sample
- 12/0.4 Au (ppb) / Ag (ppm)

Rock

- △ >600 ppb Au
- △ 400-600 ppb Au
- △ 200-400 ppb Au

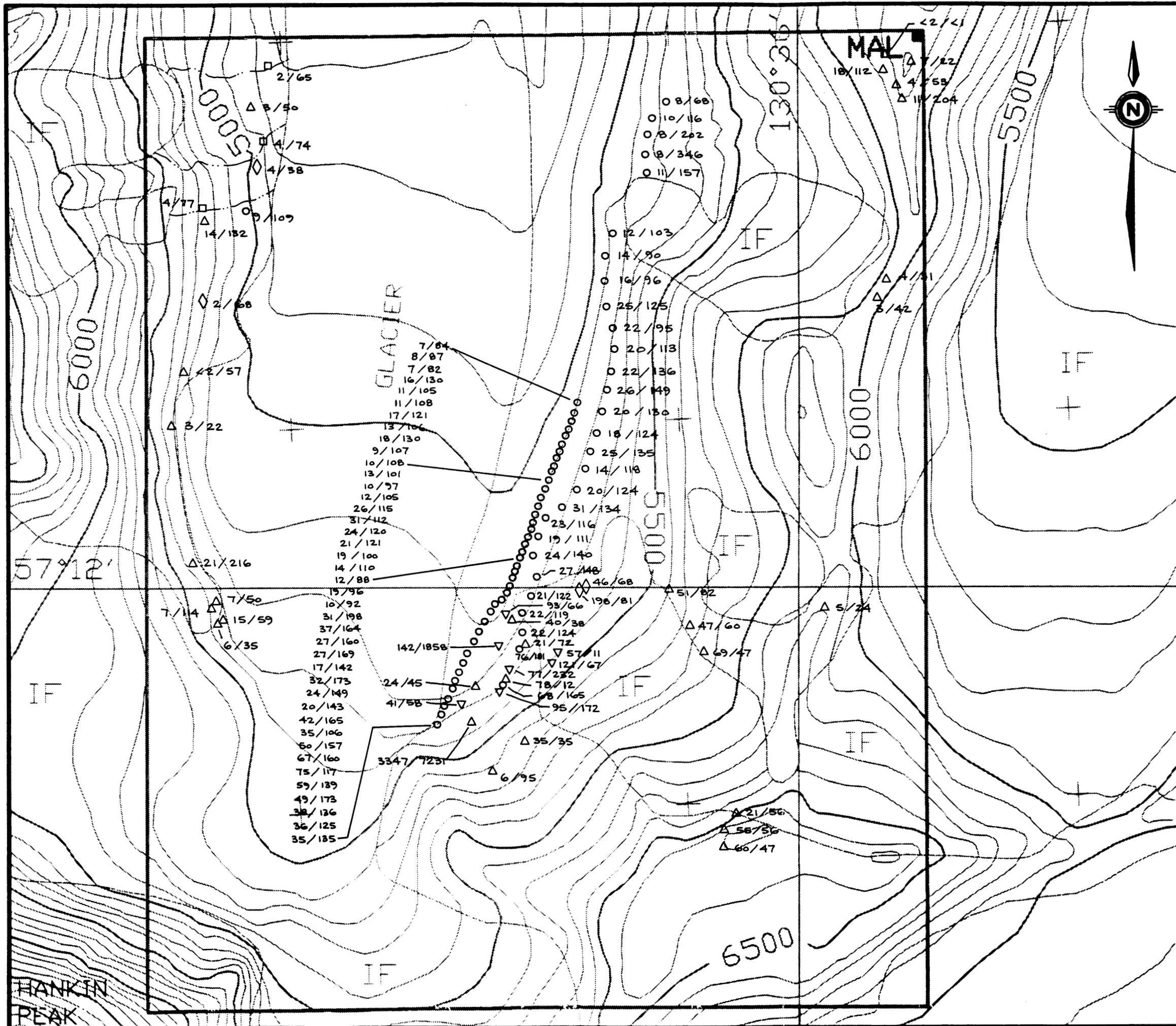
Soil

- >60 ppb Au or >3.0 ppm Ag
- 10-60 ppb Au or 1.0-3.0 ppm Ag



SOLOMON RESOURCES LTD.	
MAL PROPERTY	
Au/Ag GEOCHEMISTRY	
DATE: Nov. 1991	NTS: 1046/2E
PROJECT: 413	BY: TL TUCKER
SCALE: 1:10,000	
Keewatin Engineering Inc. FIG. No. 7	

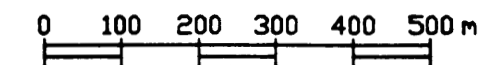
HANKIN PEAK



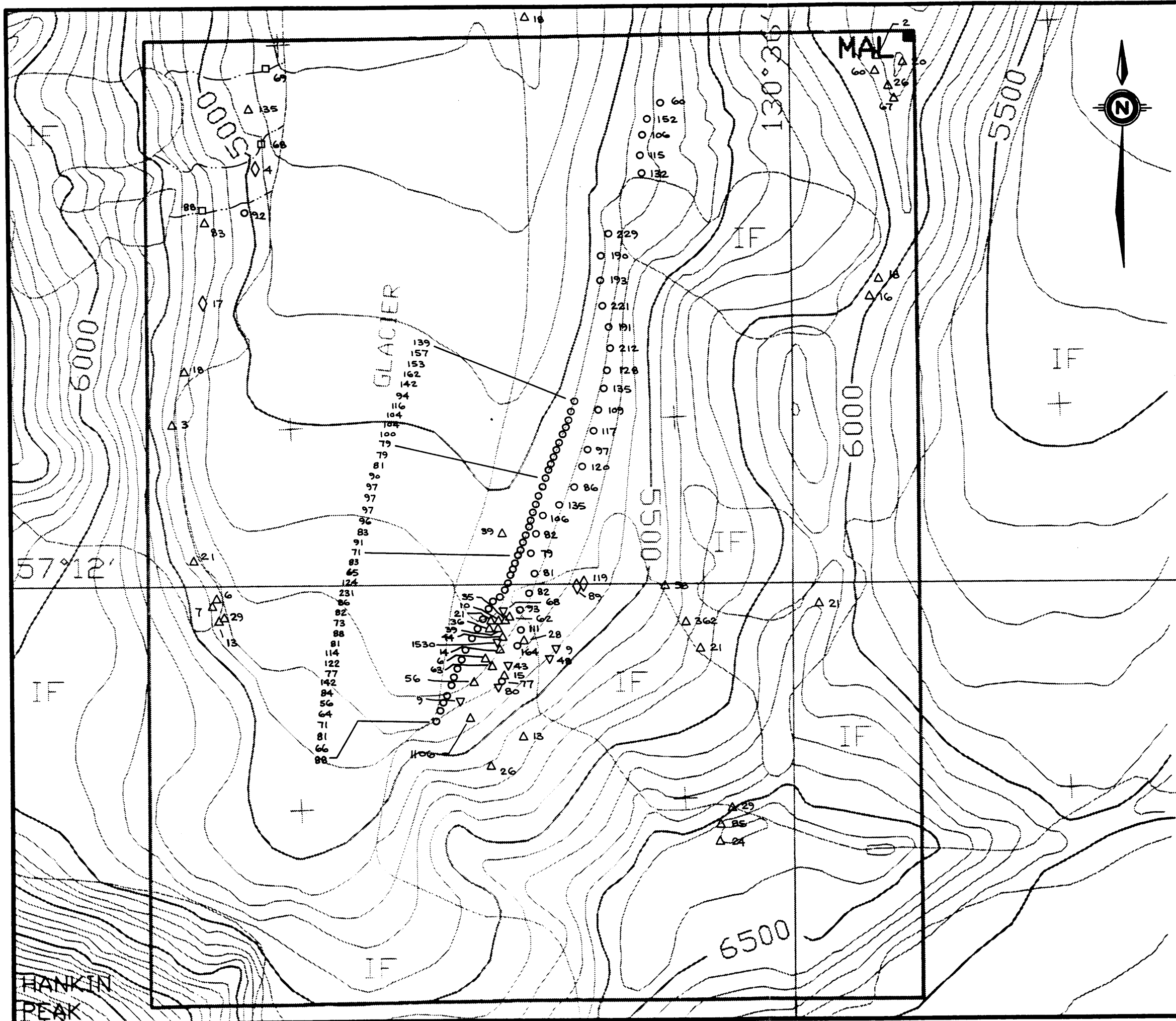
LEGEND

- Soil sample
- Silt sample
- △ Rock sample
- ▽ Rock chip sample
- ◇ Rock float sample
- 22/136 Pb (ppm) / Zn (ppm)

- Rock**
- △ >1000 ppm Pb or >1000 ppm Zn
 - △ 200-1000 ppm Pb or 200-1000 ppm Zn



SOLOMON RESOURCES LTD.	
MAL PROPERTY	
Pb/Zn GEOCHEMISTRY	
DATE: Nov. 1991	NTS: 104G/2E
PROJECT: 413	BY: TL TUCKER
SCALE: 1:10,000	
<i>Keewatin Engineering Inc.</i>	FIG. No. 8



LEGEND

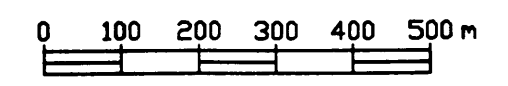
- Soil sample
- Silt sample
- △ Rock sample
- ▽ Rock chip sample
- ◇ Rock float sample
- 135 Cu (ppm)

Rock

- △ >1000 ppm Cu
- △ 300-1000 ppm Cu

Soil

- >150 ppm Cu



SOLOMON RESOURCES LTD.	
MAL PROPERTY	
Cu GEOCHEMISTRY	
DATE: Nov. 1991	NTS: 104G/2E
PROJECT: 413	BY: TL TUCKER
SCALE: 1:10,000	
<i>Keowatin Engineering Inc.</i> FIG. No. 9	

HANKIN
PEAK

Silt samples were taken on traverses where possible. Silt development is poor due to the juvenile nature of the terrain. Fine silt from active portions of the stream were collected by hand and placed in kraft paper envelopes.

Rock grab samples of outcrop and float were collected. These samples were of mineralized and/or altered rocks found during prospecting traverses or during soil sampling.

4.2.2 Analytical Technique

All of the samples were sent to Bondar Clegg and Company in Vancouver for analysis. This analysis comprised fire assay with atomic absorption finish for gold and a seven element ICP package (Au, Cu, Pb, Zn, As, Sb, Mo). Samples returning greater than 1,000 ppb gold were analyzed by fire assay with a gravimetric finish. Sample results are included in Appendix IV and analytical techniques used by Bondar Clegg are detailed in Appendix V.

4.2.3 Description and Discussion of Geochemical Results

Several soil samples returned anomalous geochemical results and are described in Table 2.

Sample No.	Au ppb	Ag ppm	As ppm
91FD413MS5300 0+00N	348	3.7	971
91FD413MS5300 1+00N	440	3.1	959
1FD413MS5300 1+50N	147	0.5	349

Soil samples from the 5,300 foot contour line outlined the previously known gold and silver soil anomaly below the Gossan zone. The soil line was extended north to the edge of the property with only background geochemical results being obtained. Low level copper values were received in a number of soils along the contour.

Rock grab samples taken from areas of the property other than the Gossan Zone did not return any anomalous results. Much of the northern portion of the property is underlain by a thick sedimentary package with no known mineralization.

Gossans mentioned by previous workers (Pegg, 1990; Westcott, 1989), on the eastern side of the claim were examined. The gossans were found to be associated with a felsic dyke within a sedimentary package. Only fine disseminated pyrite mineralization was found along the contact. The samples returned low (below detection for Au, Ag, Sb, Mo, <29 ppm Cu, <21 ppm Pb and <216 ppm Zn) geochemical results. The significant rock sample results are discussed in Section 3.3 (Mineralization).

The three silt samples collected returned values which would be considered background (<5 ppb Au, <0.2 ppm Ag, <88 ppm Cu, <4 ppm Pb, <77 ppm Zn and below detection for As, Sb and Mo).

5.0 CONCLUSIONS

The Mal claim is underlain by a package of Upper Triassic volcanics and sediments. Previous exploration programs have been concentrated on a gossan in the central part of the property.

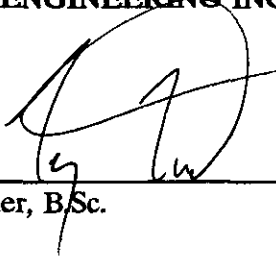
During August, 1991, a programs of helicopter supported reconnaissance prospecting and geochemical sampling was carried out on the Mal claim. A total of 23 rock samples, 29 soil samples and 3 silt samples were collected on the property. The results from the 1991 program have shown that a thick sedimentary package underlies the northern portion of the claim and contains no known significant precious or base metal mineralization. Only the Gossan Zone was found to contain potentially significant precious metal mineralization.

Sampling of the shear zones within the Gossan Zone returned assays higher than those obtained by previous work. A grab sample in 1991 returned (0.296 oz/t Au and 10.18 oz/t Ag, 91SC413MR008). The shear structures, generally less than 1 metre wide and less than 3 metres in strike length, are found within the vicinity of a volcanic sedimentary contact and

are enriched geochemically in gold. Detailed mapping of this area along with more extensive sampling could possibly lead to a better understanding of mineralization and potential extent.

Respectfully submitted,

KEEWATIN ENGINEERING INC.

A handwritten signature in black ink, appearing to read 'Terry L. Tucker', is written over a horizontal line. The signature is stylized and somewhat cursive.

Terry L. Tucker, B.Sc.

6.0 **REFERENCES**

- Pegg, R., 1990. Geological and Geochemical Report on the Mal Property. Solomon Resources Ltd.
- Savell, M., 1991. Geological and Geochemical Report on the Sno 1 to 3 Mineral Claims. Noranda Exploration Company Limited.
- Souther, J.G. (1971). Telegraph Creek Map Area, B.C. Geological Survey of Canada, Paper 71-44, Map 11-1971.
- Westcott, M.G., 1989. Geochemical and Geological Work on the Mal Claim. Cominco Assessment Report.

APPENDIX I

Statement of Qualifications

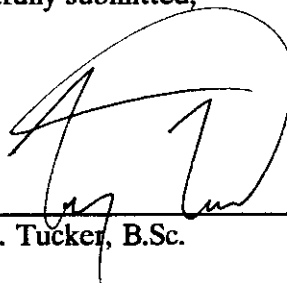
STATEMENT OF QUALIFICATIONS

I, TERRY L. TUCKER, of 640 Crystal Court, in the City of North Vancouver, in the Province of British Columbia, do hereby certify that:

- 1) I am a graduate of the University of Alberta, Edmonton, Alberta (1989) with a Bachelor of Science degree (specialization in Geology).
- 2) That I have been a practising geologist in Canada, Australia and Papua New Guinea since 1987.
- 3) I was under contract to Keewatin Engineering Inc. of 800 - 900 West Hastings Street, Vancouver, B.C. for the duration of time I worked on this project.
- 4) I personally participated in the 1991 field program on August 26-27, 1991, on the Mal property as described in this report.
- 5) I am the author of the report entitled "Geological and Geochemical Report on the Mal Property, Liard Mining Division, British Columbia", dated October 25, 1991.
- 6) I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein nor in the securities of Solomon Resources Ltd., in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 25th day of October, 1991.

Respectfully submitted,



Terry L. Tucker, B.Sc.

APPENDIX II

Summary of Field Personnel

SUMMARY OF FIELD PERSONNEL

Name	Position	Sampler Code	No. of Days
Terry L. Tucker	Geologist	TT	2.0
Timuthe L. Hutchings	Geographer	TH	2.0
Steve G. Creelman	Prospector	SC	2.0
Francois J.M.B. Depey	Field Assistant	FD	2.0

APPENDIX III

Statement of Expenditures

STATEMENT OF EXPENDITURES

<u>Pre-Field</u> (maps, reports, permitting)	\$ 193.93
<u>Field Program</u>	
Personnel	2,450.00
Supervision	212.50
Camp Costs	720.00
Transportation - Helicopter (2.4 hours)	1,920.00
Geochemical Analyses (32 soil/silt, 23 rock)	713.00
<u>Post-Field</u>	<u>880.00</u>
TOTAL EXPENDITURES:	<u>\$7,089.43</u>

APPENDIX IV

Rock/Soil/Silt Sample Descriptions and Results

PROJECT: Mal 413 RESULTS PLOTTED BY: Terry L Tucker FROM BONDAR-CLEGG REPORTS:
 AREA: MAL PROPERTY MAP: 1308.0, 1308.1, 1308.6
 COLLECTOR: Steve G. Creelman (SC), Terry L. Tucker (TT), Timothe L. Hutchings (TH), Francois Depey (FD)

SAMPLE NUMBER	LOCATION NOTES	DATE	ROCK TYPE	Type width(metres)	Description	Au ppb	Au opt	Ag ppm	Ag opt	Cu ppm	Pb ppm	In ppm	As ppm	Sb ppm	Mo ppm
91SC413MR006	EL5600/E.SIDE GOSSAN	AUG 26/91	Andesite	GRAB	Sericitic w qtz str/2-3% diss py, aspy	-5		0.6		26	6	95	64	-5	2
91SC413MR007	EL 5250/E.SIDE GOSSAN	AUG 26/91	Andesite	GRAB	Shear/qtz str;py in shear, aspy in wall	366		15.4		56	24	45	306	29	-1
91SC413MR008	EL 5350/E. SIDE GOSSAN	AUG 26/91	Andesite	GRAB	Qtz filled shear/fn gr py in wall, blebs	10000	0.296	50	10.18	1106	3347	7231	2000	386	8
91SC413MR009	EL 5270/W.SIDE GOSSAN	AUG 26/91	Volcanic	GRAB	Calc.Alt/green, cherty/carb, min.bleb.po.	22		1.4		83	14	132	11	-5	1
91FD413MF001	5250'	26 AUG, 91	Volcanic	FLOAT	altered vol? with mal/py to 2%	153		19		28	21	72	1228	1999	-1
91FD413MR002	4850'	27 AUG, 91	Volcanic	ROCK	trace chalcopryrite	-5		-0.2		135	3	50	13	16	-1
91FD413MF003	5000'	27 AUG, 91	Volcanic	FLOAT	trace pyrite	-5		-0.2		4	4	38	21	10	-1
91FD413MF004	5220'	27 AUG, 91	Volcanic	FLOAT	trace pyrite	-5		-0.2		17	2	68	-5	-5	-1
91TH413MR001	NORTH RIDGE	26 AUG, 91	ARGILLITE	GRAB	siltstone with tr diss py and calcite	34		1.5		60	18	112	11	-5	-1
91TH413MR002	NORTH RIDGE	26 AUG, 91	ARGILLITE	GRAB	rusty with quartz stringers	-5		1.1		67	11	204	14	-5	23
91TH413MR003	NORTH RIDGE	26 AUG, 91	CALCITE VEIN	GRAB	calcite vein	-5		0.3		16	3	42	6	-5	1
91TH413MR004	NORTH RIDGE	26 AUG, 91	LIMESTONE	GRAB	diss py <1% in limestone, gossanous	-5		0.3		21	5	24	20	-5	-1
91TH413MR005	SOUTH - UNDER GLACIER	27 AUG, 91	ANDESITE	GRAB	very fine gr, py < 1%, tr po	-5		-0.2		13	6	35	17	-5	-1
91TH413MR006	SOUTH SIDE OF PROPERTY	27 AUG, 91	ANDESITE	GRAB	2-3% diss py	-5		-0.2		7	7	114	11	-5	-1
91TT413MR001	6300' N ridge	26 AUG, 91	SHALE	GRAB	narrow <1 cm calcite vein	-5		-0.2		20	7	22	-5	-5	-1
91TT413MR002	6280' N ridge	26 AUG, 91	SHALE	GRAB	10 cm calcite vein, no sulphides	-5		0.4		2	-2	-1	-5	-5	-1
91TT413MR003	6200' N ridge	26 AUG, 91	SHALE	GRAB	vertical calcite vein (<10 cm)	-5		-0.2		26	4	53	11	-5	-1
91TT413MR004	6050' N ridge	26 AUG, 91	SHALE	GRAB	calcite vein .5 m by 20 m	-5		0.3		18	4	31	-5	-5	1
91TT413MR005	5350' S under glacier	27 AUG, 91	Andesite	GRAB	black siliceous with 1% diss py po	-5		-0.2		29	15	59	12	-5	-1
91TT413MR006	5300'	27 AUG, 91	Felsic dyke	GRAB	felsic dyke with 1% diss py	-5		-0.2		6	7	50	11	-5	3
91TT413MR007	5300'	27 AUG, 91	Felsic dyke	GRAB	felsic dyke with 1% diss py	-5		-0.2		21	21	216	58	-5	-1
91TT413MR008	5300'	27 Aug, 91	Felsic dyke	GRAB	pyritic dyke	-5		-0.2		3	3	22	-5	-5	4
91TT413MR009	5300'	27 Aug, 91	Sediment	GRAB	rusty fine gr sed	-5		-0.2		18	-2	57	-5	-5	-1

PROJECT: MAL 413 RESULTS PLOTTED BY: T. L. Tucker FROM BONDAR CLEGG REPORTS:
 AREA: Mal Project MAP: 1308.0, 1308.1, 1308.6
 COLLECTOR: Francois J.M.B. Depey XXIV (FD), Steve G. Creelman (SC)

SAMPLE NUMBER	DATE	LOCATION	HORIZON		ORGANICS		RESIDUAL			NOTES	Au	Ag	Cu	Pb	Zn	As	Sb	Mo
			DEPTH	COLOUR	TRANSPORT	SLOPE	MOIST	ppb	ppm		ppm	ppm	ppm	ppm	ppm	ppm		
1	91FD413MS5300'/0+00N	26 AUG, 91 MAL	B	5	0	Lt brn	T	35W	wet		348	3.7	77	68	165	971	25	9
2	91FD413MS5300'/0+50N	26 AUG, 91 MAL - no sample																
3	91FD413MS5300'/1+00N	26 AUG, 91 MAL	B	10	0	Lt brn	T	35W	wet		440	3.1	164	76	181	959	25	7
4	91FD413MS5300'/1+50N	26 AUG, 91 MAL	B	10	0	Lt brn	T	20W	wet		147	0.5	111	22	124	349	32	1
5	91FD413MS5300'/2+00N	26 AUG, 91 MAL	B	5	0	Grey	T	10W	wet		74	0.4	93	22	119	152	12	3
6	91FD413MS5300'/2+50N	26 AUG, 91 MAL	B	5	0	Grey	T	10W	wet		71	0.4	82	21	122	127	6	2
7	91FD413MS5300'/3+00N	26 AUG, 91 MAL	B	5	0	Grey	T	10W	wet		30	0.3	81	27	148	51	5	3
8	91FD413MS5300'/3+50N	26 AUG, 91 MAL	B	5	0	Grey	T	10W	wet		25	0.2	79	24	140	54	-5	3
9	91FD413MS5300'/4+00N	26 AUG, 91 MAL - silt			0		T		wet	taken as a silt	14	-0.2	82	19	111	64	-5	2
10	91FD413MS5300'/4+50N	26 AUG, 91 MAL	B	5	0	Grey	T	20W	med		12	0.2	106	23	116	124	-5	2
11	91FD413MS5300'/5+00N	26 AUG, 91 MAL	B	5	0	Grey	T	20W	med		12	0.4	135	31	134	132	7	3
12	91FD413MS5300'/5+50N	26 AUG, 91 MAL	B	5	0	Med brn	T	20W	med		7	-0.2	86	20	124	49	-5	6
13	91FD413MS5300'/6+00N	26 AUG, 91 MAL	B	5	5	Med brn	T	20W	med		-5	-0.2	120	14	118	30	-5	2
14	91FD413MS5300'/6+50N	26 AUG, 91 MAL	B	5	0	Med brn	T	30W	med		10	0.4	97	25	135	216	-5	4
15	91FD413MS5300'/7+00N	26 AUG, 91 MAL	B	10	0	Med brn	T	35W	med		15	-0.2	117	18	124	59	-5	3
16	91FD413MS5300'/7+50N	26 AUG, 91 MAL	B	10	0	Med brn	T	35W	med		8	-0.2	109	20	130	74	-5	4
17	91FD413MS5300'/8+00N	26 AUG, 91 MAL	B	20	0	Med brn	T	35W	med		18	-0.2	135	26	149	353	8	5
18	91FD413MS5300'/8+50N	26 AUG, 91 MAL	B	25	0	Med brn	T	35W	med		7	-0.2	128	22	136	50	6	4
19	91FD413MS5300'/9+00N	26 AUG, 91 MAL	B	10	5	Med brn	T	35W	med		6	-0.2	212	20	113	35	-5	3
20	91FD413MS5300'/9+50N	26 AUG, 91 MAL	B	5	0	Med brn	T	35W	med		-5	-0.2	191	22	95	9	-5	2
21	91FD413MS5300'/10+00N	26 AUG, 91 MAL	B	10	0	Med brn	T	35W	med		14	-0.2	221	25	125	40	7	6
22	91FD413MS5300'/10+50N	26 AUG, 91 MAL	B	10	5	Med brn	T	35W	med		11	-0.2	193	16	96	13	-5	1
23	91FD413MS5300'/11+00N	26 AUG, 91 MAL	B	5	0	Med brn	T	35W	med		-5	-0.2	190	14	90	-5	-5	-1
24	91FD413MS5300'/11+50N	26 AUG, 91 MAL	B	5	0	Grey	T	0	med		-5	-0.2	229	12	103	-5	-5	-1
25	91FD413MS5300'/12+00N	26 AUG, 91 MAL - no sample																
26	91FD413MS5300'/12+50N	26 AUG, 91 MAL - no sample																
27	91FD413MS5300'/13+00N	26 AUG, 91 MAL - no sample																
28	91FD413MS5300'/13+50N	26 AUG, 91 MAL	B	5	0	Grey	T	10W	med		6	-0.2	132	11	157	11	-5	7
29	91FD413MS5300'/14+00N	26 AUG, 91 MAL	B	5	0	Grey	T	10W	med		7	1	115	8	346	13	-5	32

KEEWATIN ENGINEERING INC

SOIL and SILT SAMPLE DESCRIPTIONS

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PROJECT: MAL 413 RESULTS PLOTTED BY: T. L. Tucker FROM BONDAR CLEGG REPORTS:
 AREA: Mal Project MAP: 1308.0, 1308.1, 1308.6
 COLLECTOR: Francois J.M.B. Depey XXIV (FD), Steve G. Creelman (SC)

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SAMPLE NUMBER	DATE	LOCATION	HORIZON		ORGANICS		RESIDUAL			Au	Ag	Cu	Pb	Zn	As	Sb	Mo	
			DEPTH	COLOUR	TRANSPORT	SLOPE	MOIST	NOTES	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
30 91FD413MS5300'/14+50N	26 AUG, 91	MAL	B	5	0	Grey	T	30W	med		5	-0.2	106	8	202	-5	-5	12
31 91FD413MS5300'/15+00N	26 AUG, 91	MAL	B	5	10	Med brn	R	10W	med		-5	-0.2	152	10	116	-5	-5	3
32 91FD413MS5300'/15+50N	26 AUG, 91	MAL	A	40	50	Med brn	R	20W	med		-5	1.3	60	8	68	-5	-5	3
33 91 SC 413 M L 001	27 AUG, 91	MAL- silt									-5	-0.2	69	2	65	-5	-5	-1
34 91 SC 413 M L 002	27 AUG, 91	MAL- silt									-5	-0.2	68	4	74	-5	-5	-1
35 91 SC 413 M L 003	27 AUG, 91	MAL- silt									-5	-0.2	88	4	77	-5	-5	-1
36 91 FD 413 M S 001	27 AUG, 91	MAL - 5020'									-5	-0.2	92	9	109	-5	-5	2

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
91 FD 413 M S 5020001S		<5	<0.2	92	9	109	<5	<5	2
91 FD 413 M S 530001+00N		348	3.7	77	68	165	971	25	9
91 FD 413 M S 530001+00N		440	3.1	164	76	181	959	25	7
91 FD 413 M S 530001+50N		147	0.5	111	22	124	349	32	1
91 FD 413 M S 530002+00N		74	0.4	93	22	119	152	12	3
91 FD 413 M S 530002+50N		71	0.4	82	21	122	127	6	2
91 FD 413 M S 530003+00N		30	0.3	81	27	148	51	5	3
91 FD 413 M S 530003+50N		25	0.2	79	24	140	54	<5	3
91 FD 413 M S 530004+50N		12	0.2	106	23	116	124	<5	2
91 FD 413 M S 530005+00N		12	0.4	135	31	134	132	7	3
91 FD 413 M S 530005+50N		7	<0.2	86	20	124	49	<5	6
91 FD 413 M S 530006+00N		<5	<0.2	120	14	118	30	<5	2
91 FD 413 M S 530006+50N		10	0.4	97	25	135	216	<5	4
91 FD 413 M S 530007+00N		15	<0.2	117	18	124	59	<5	3
91 FD 413 M S 530007+50N		8	<0.2	109	20	130	74	<5	4
91 FD 413 M S 530008+00N		18	<0.2	135	26	149	353	8	5
91 FD 413 M S 530008+50N		7	<0.2	128	22	136	50	6	4
91 FD 413 M S 530009+00N		6	<0.2	212	20	113	35	<5	3
91 FD 413 M S 530009+50N		<5	<0.2	191	22	95	9	<5	2
91 FD 413 M S 530010+00N		14	<0.2	221	25	125	40	7	6
91 FD 413 M S 530010+50N		11	<0.2	193	16	96	13	<5	1
91 FD 413 M S 530011+00N		<5	<0.2	190	14	90	<5	<5	<1
91 FD 413 M S 530011+50N		<5	<0.2	229	12	103	<5	<5	<1
91 FD 413 M S 530013+50N		6	<0.2	132	11	157	11	<5	7
91 FD 413 M S 530014+00N		7	1.0	115	8	346	13	<5	32
91 FD 413 M S 530014+50N		5	<0.2	106	8	202	<5	<5	12
91 FD 413 M S 530015+00N		<5	<0.2	152	10	116	<5	<5	3
91 FD 413 M S 530015+50N		<5	1.3	60	8	68	<5	<5	3
91 FD 413 M I 530014+00N		14	<0.2	82	19	111	64	<5	2
91 SC 413 M I 0001		<5	<0.2	69	2	65	<5	<5	<1
91 SC 413 M I 0002		<5	<0.2	68	4	74	<5	<5	<1
91 SC 413 M I 0003		<5	<0.2	88	4	77	<5	<5	<1

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REPORT: Y91-01308.1 (COMPLETE)

DATE PRINTED: 25-OCT-91

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
91 FD 413 M R 001		153	19.0	28	21	72	1228	1999	<1
91 FD 413 M R 002		<5	<0.2	135	3	50	13	16	<1
91 FD 413 M F 003		<5	<0.2	4	4	38	21	10	<1
91 FD 413 M F 004		<5	<0.2	17	2	68	<5	<5	<1
91 SC 413 M R 006		<5	0.6	26	6	95	64	<5	2
91 SC 413 M R 007		366	15.4	56	24	45	306	29	<1
91 SC 413 M R 008		>10000	>50.0	1106	3347	7231	>2000	386	8
91 SC 413 M R 009		22	1.4	83	14	132	11	<5	1
91 TH 413 M R 001		34	1.5	60	18	112	11	<5	<1
91 TH 413 M R 002		<5	1.1	67	11	204	14	<5	23
91 TH 413 M R 003		<5	0.3	16	3	42	6	<5	1
91 TH 413 M R 004		<5	0.3	21	5	24	20	<5	<1
91 TH 413 M R 005		<5	<0.2	13	6	35	17	<5	<1
91 TH 413 M R 006		<5	<0.2	7	7	114	11	<5	<1
91 TT 413 M R 001		<5	<0.2	20	7	22	<5	<5	<1
91 TT 413 M R 002		<5	0.4	2	<2	<1	<5	<5	<1
91 TT 413 M R 003		<5	<0.2	26	4	53	11	<5	<1
91 TT 413 M R 004		<5	0.3	18	4	31	<5	<5	1
91 TT 413 M R 005		<5	<0.2	29	15	59	12	<5	<1
91 TT 413 M R 006		<5	<0.2	6	7	50	11	<5	3
91 TT 413 M R 007		<5	<0.2	21	21	216	58	<5	<1
91 TT 413 M R 008		<5	<0.2	3	3	22	<5	<5	4
91 TT 413 M R 009		<5	<0.2	18	<2	57	<5	<5	<1

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 V7P 2R5
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DATE PRINTED: 25-OCT-91

PROJECT: 413

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
91 TH 413 M R 001		34	1.5	60	18	112	11	<5	<1
Duplicate		26	1.3	53	15	98	12	<5	<1
91 TH 413 M R 006		<5	<0.2	7	7	114	11	<5	<1
Prep Duplicate		<5	<0.2	4	5	108	<5	<5	<1

APPENDIX V

Sampling and Analytical Techniques

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 V7P 2R5
 (604) 985-0681 Telex 04-352667



**Geochemical
 Lab Report**

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V91-01308.0 (COMPLETE)

REFERENCE INFO: SHIPMENT #1

CLIENT: KEFWATJN ENGINEERING INC.
 PROJECT: 413

SUBMITTED BY: DJCK JI
 DATE PRINTED: 11-SEP-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold 30 grams	32	5 PPM	Fire-Assay	Fire Assay AA
2	Ag Silver	32	0.2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu Copper	32	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb Lead	32	2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn Zinc	32	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
6	As Arsenic	32	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
7	Sb Antimony	32	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
8	Mo Molybdenum	32	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	28	1 -80	32	DRY, SIEVE -80	32
T STREAM SEDIMENT, SILT	4				

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INVOICE TO: MS. BONNIE WHELAN

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**Geochemical
 Lab Report**

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V91-01308.1 (COMPLETE)

REFERENCE INFO: SHIPMENT #1

CLIENT: KFFWATIN ENGINEERING INC.
 PROJECT: 413

SUBMITTED BY: DTCK JT
 DATE PRINTED: 13 SEP 91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold 30 grams	23	5 PPM	Fire-Assay	Fire Assay AA
2	Ag	Silver	23	11.2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu	Copper	23	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb	Lead	23	2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn	Zinc	23	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
6	As	Arsenic	23	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
7	Sb	Antimony	23	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
8	Mo	Molybdenum	23	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK OR BLD ROCK	23	2 - 150	23	CRUSH, PULV. - 150	23
				TOO WET TO CRUSH	23

REMARKS: HIGH GOLD RESULT CONFIRMED BY RETEST.
 ASSAY OF HIGH Au and Ag TO FOLLOW ON
 V91-01308.6

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