

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 92.09.09

ASSESSMENT REPORT 21830

MINING DIVISION: Liard

PROPERTY: Mess

LOCATION: LAT 57 13 46 LONG 130 59 00
UTM 09 6344457 380264
NTS 104G02W 104G03E

CLAIM(S): Mess 1-2

OPERATOR(S): Skeena Res.

AUTHOR(S): Tucker, T.L.

REPORT YEAR: 1991, 41 Pages

COMMODITIES

SEARCHED FOR: Copper, Gold

KEYWORDS: Triassic-Jurassic, Tuffs, Andesites, Sandstones, Siltstones, Chalcocite
Chalcopyrite, Malachite, Galena, Pyrite, Tetrahedrite, Sphalerite

WORK

DONE: Geological, Geochemical
GEOL 500.0 ha
Map(s) - 1; Scale(s) - 1:10 000
ROCK 17 sample(s) ;ME
SILT 10 sample(s) ;ME
SOIL 30 sample(s) ;ME
Map(s) - 4; Scale(s) - 1:10 000

RELATED

REPORTS: 21248

MINFILE: 104G

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GEOLOGICAL AND GEOCHEMICAL REPORT

**ON THE
MESS PROPERTY**

**Liard Mining Division, British Columbia
NTS 104G/2 & 3
Latitude: 57° 13' 46" N
Longitude: 130° 59' 01" W**

on behalf of

**SKEENA RESOURCES LTD.
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**

October 28, 1991

21,830

Keewatin Engineering Inc.

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1.0 SUMMARY

The Mess property consists of three mineral claims (46 units) in the Bob Quinn Lake area, 153 kilometres northwest of Stewart in northwestern British Columbia. The claims are situated 47 kilometres northwest of the Stewart-Cassiar Highway.

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

The property has only previously been evaluated by Skeena Resources Ltd. in 1990. Chalcopyrite, pyrite, tetrahedrite and sphalerite mineralization was found in fracture/shear zones on the north ridge of the Mess 2 claim. Grab samples from these zones returned values of up to 505 ppb gold, 47.0 ppm silver, 17,337 ppm copper, 2,159 ppm lead and 36,480 ppm zinc.

Prospecting during the 1991 field season discovered numerous mineralized float boulders in the central portion of the Mess 2 claim. Mineralization consists of disseminated chalcopyrite within a quartz-carbonate altered volcanic. Two float samples returned values up to 2,151 ppb gold, 4.16% copper and 2.26 oz/t silver. Grab samples north of these float samples returned values up to 649 ppb gold and 2,842 ppm copper. Potential for significant mineralization exists on the Mess claims. Further mapping and prospecting will be required to outline the extent of mineralization and the source of the significant float samples.

2.0 INTRODUCTION

The Mess property is located 47 kilometres northwest of Bob Quinn Lake and is held by Skeena Resources Limited.

The property is underlain by Upper Triassic to Lower Jurassic sedimentary and volcanic rocks. Several mineralized shear and fracture systems have been outlined and a number of anomalous float samples have been found.

Keewatin Engineering Inc. was commissioned by Skeena Resources Limited to carry out an exploration program on the Mess property in 1991. The objective was to evaluate areas of the property which have not been prospected to date.

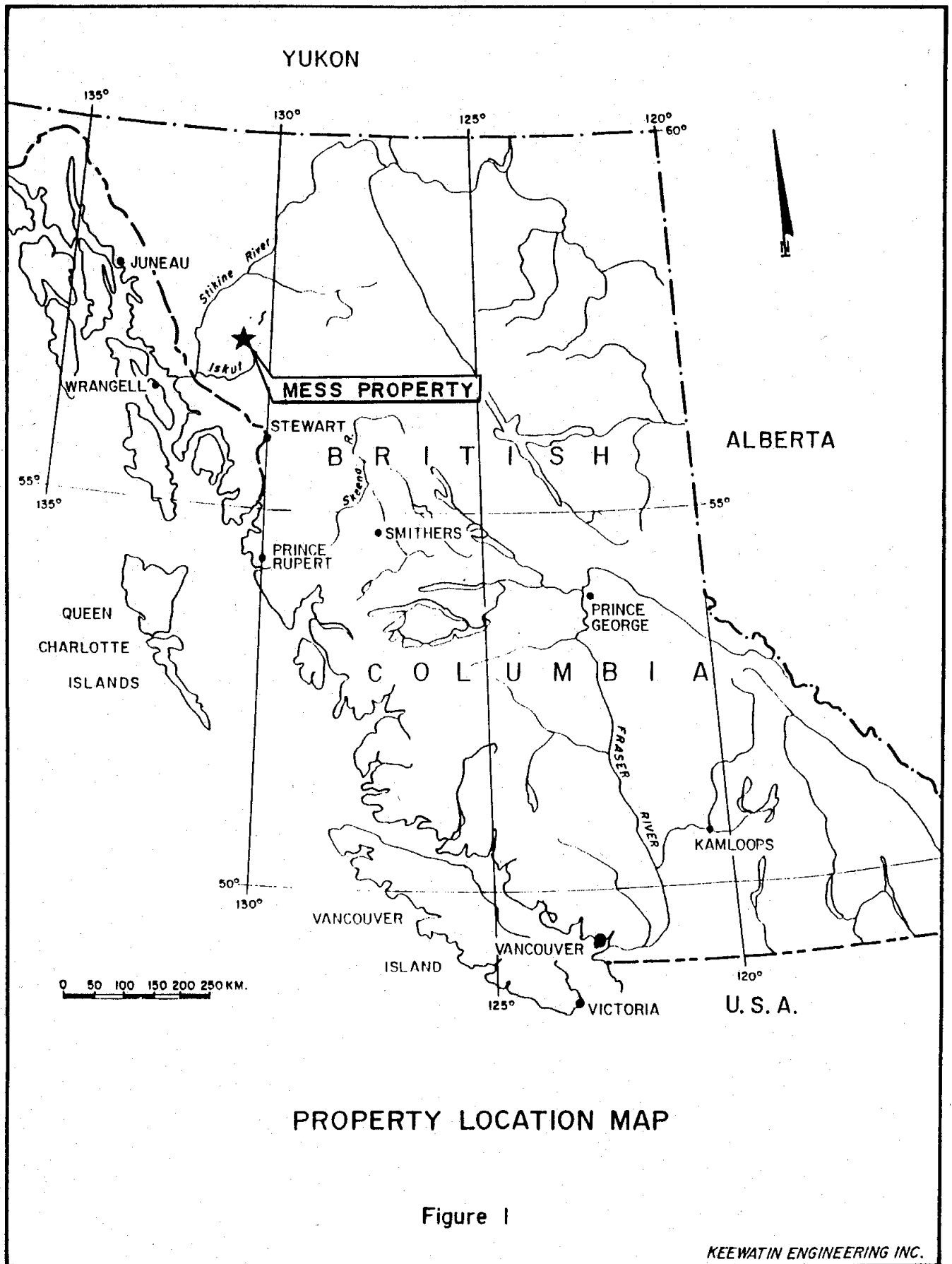
2.1 Location and Access

The Mess property is located in northwestern British Columbia, approximately 153 kilometres northwest of the Town of Stewart and 47 kilometres northwest of Bob Quinn Lake (Figure 1). The claims are situated within NTS map sheets 104G/2E and 3W and is centred about 52° 13' North latitude and 130° 59' West longitude.

Access to the area is limited to helicopter. Vancouver Island Helicopters have a permanent base at Bob Quinn Lake on the Stewart-Cassiar Highway (#37). Scheduled air service is available to the Bob Quinn airstrip from Smithers. The 1991 field program was based out of Keewatin's Arctic property field camp on More Creek.

2.2 Physiography and Climate

The property straddles a northeast flowing tributary of Mess Creek, approximately 6 km upstream from their confluence. The northern portion of the property covers a narrow, east-west trending ridge. The rest of the property is comprised of very steep slopes. Elevations range from 7,800 feet along the ridge to 3,700 feet beside the creek (Figure 2).



YUKON

135°

130°

125°

120°

60°

JUNEAU

Stikine River

Iskut

WRANGELL

MESS PROPERTY

STEWART

B R I T I S H

ALBERTA

55°

135°

55°

SMITHERS

PRINCE RUPERT

PRINCE GEORGE

QUEEN CHARLOTTE ISLANDS

C O L U M B I A

FRASER RIVER

KAMLOOPS

50°

130°

VANCOUVER

ISLAND

VANCOUVER

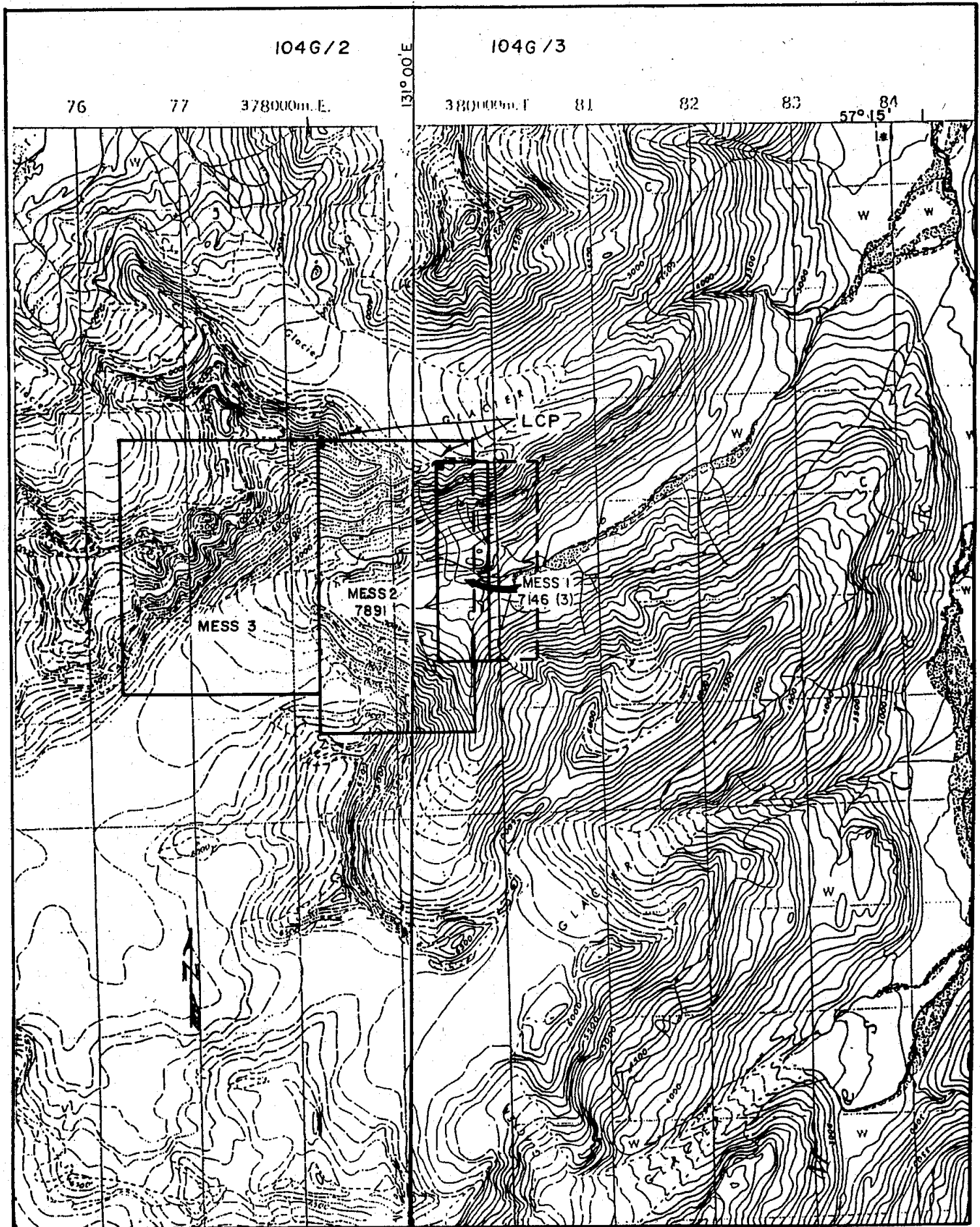
VICTORIA

U. S. A.

0 50 100 150 200 250 KM.

PROPERTY LOCATION MAP

Figure 1



MESS PROPERTY — CLAIM MAP
 0 0.5 1.0 2.5
 km. (1:50,000)

fig. 2
 Keewatin Engineering Inc.

A majority of the claim area is above tree line and vegetation is nonexistent. The lower elevations are covered by small patches of dwarfed shrubs.

The climate is typified by cold, snowy winters and short, warm and wet summers. Snow accumulations normally exceed five metres.

23 Property Status and Ownership

The Mess property is comprised of three contiguous mineral claims totalling 46 units located within the Liard Mining Division. The claims are illustrated in Figure 2 and claim information is outlined below.

TABLE 1 - CLAIM STATUS				
Claim Name	No. of Units	Record No.	Owner	Expiry Date
Mess 1	8	225060	Skeena Resources Ltd.	March 20, 1994
Mess 2	18	225792	"	September 26, 1993
Mess 3	20	303602	"	August 25, 1993

The common Legal Corner Post for the Mess 2 and Mess 3 claims were located during the course of the fieldwork. The Mess 1 claim post was located during 1990 field work. The Mess 3 claim post was placed prior to 1991 field work. The property is held by Skeena Resources Ltd. with offices at #800 - 900 West Hastings Street, Vancouver, B.C., V6C 1E5.

24 History of Exploration

The area drained by the upper reaches of the Stikine, Iskut, Unuk, Craig and Bell-Irving Rivers has been explored 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.

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.

Regional government mapping was completed by the GSC's J.G. Souther (1972) during the late 1950's and 1960's.

The Mess 1 and 2 claims were staked by Skeena Resources Ltd. in 1990 to cover favourable Upper Triassic strata.

Twenty-two rock samples were collected on the property in 1990 and some geological mapping was completed. Prior to 1990, no exploration had been performed and no mineralized occurrences have been reported from the area currently covered by the Mess property.

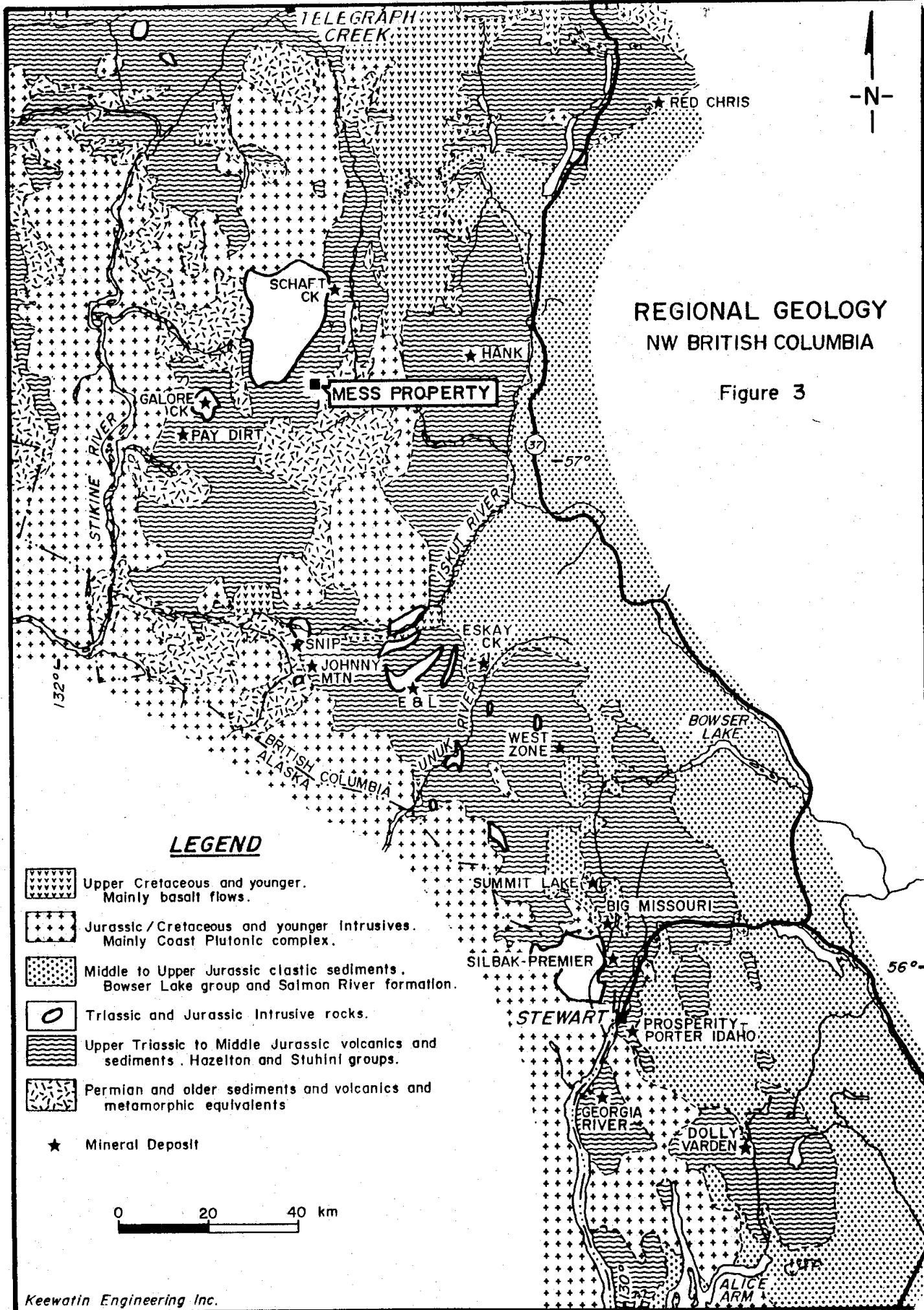
2.5 Objective of the 1991 Work Program

The objective of the 1991 program was to conduct a reconnaissance soil and prospecting evaluation of the Mess property. The work was intended to evaluate both the gold and base metal potential of the area.

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 3). 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 Group 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 northwest B.C. and the Toodoggone gold camp.

The Paleozoic Stikine Assemblage is the oldest assemblage and contains three distinct, mainly volcanic-carbonate divisions: Early Devonian limestones and intermediate to felsic volcanics, Mississippian 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 Hazelton 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. Hazelton 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 are predominantly turbiditic 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

Souther (1971) has mapped the Mess property as being underlain by Upper Triassic to Lower Jurassic sediments and volcanics.

The 1990 mapping program indicated that the east-west trending ridge near the northern boundary of the Mess 1 and 2 claims is underlain by intermediate to felsic pyroclastics and feldspar porphyry dykes and flows(?). The pyroclastics are maroon to greyish brown to green in colour and consist of tuff breccias, lapilli tuffs and lesser flows. Contacts appear to be gradational and the pyroclastics, generally coarsen towards the east. The flows contain, approximately, 10% feldspar phenocrysts, amphiboles and rock fragments in an aphanitic matrix. The lapilli tuffs to tuff breccias are poly lithic and appear reworked. Rounded to subrounded, epidotized feldspathic fragments, up to 9 x 12 cm, chloritized amphiboles are hosted by a crowded feldspar porphyry matrix. The feldspar porphyry flows are green in colour, with abundant feldspar phenocrysts, up to 0.8 mm long, and lesser chloritized mafic grains.

These strata are cut by numerous fracture and shear zones, up to 2 metres wide, which display quite variable attitudes (110° - 163° / 32° - 82° SW and 150° - 168° / 80° - 83° E). These zones are commonly accompanied by locally intense carbonate (\pm hematite, ankerite) alteration and lesser epidote fracture fillings. Narrow, up to one metre wide, quartz (\pm carbonate) veins are also found.

3.3 Mineralization

The mineralization observed within the Mess property consists of chalcopyrite, pyrite, malachite, azurite, tetrahedrite, chalcocite and sphalerite. This mineralization is, generally, restricted to the shear and fracture zones and their accompanying veins and fracture fillings. Locally, intense carbonate, hematite and/or epidote fracture fillings are present. Some of the zones appear to be at least one metre wide and may be up to 5 metres across. Unfortunately, subcrop usually obscures the true dimensions of the zones. The chalcopyrite, chalcocite and tetrahedrite are found as fracture fillings, disseminations and small patches,

in amounts of up to 8%, within the fracture/shear zones on the eastern side of the property. Quartz (\pm carbonate veins, varying from 9 to 100 cm wide, are most abundant on the western side of the property. Locally, these veins host up to 1% euhedral pyrite, <1% chalcopyrite-malachite-azurite, 5% poddy (<1 cm diameter) sphalerite and hematitic patches (Pegg, 1990).

Sampling of this mineralization in 1990 returned a number of significant results including grab sample 90L213MR008 which returned 505 ppb gold, 47.0 ppm silver, 1,712 ppm copper, 2,159 ppm lead, 1,941 ppm zinc, 4,856 ppm arsenic and 1,057 ppm antimony. Other significant results from 1990 include grab samples which returned up to 17,337 ppm copper (90R213MR-006) and 36,480 ppm zinc.

Prospecting in the north-central area of the Mess 2 claim in 1991 has returned a number of significant results. Mineralization consists of quartz veins with chalcopyrite, tetrahedrite, galena to 3% and sphalerite. This appears to be associated with a felsic unit. Samples returned up to 649 ppb gold (91SC215MR003), 2,842 ppm copper (91SC215MR004), 10.4 ppm silver, 2,748 ppm lead and 13,298 ppm zinc (91SC215MR002).

In 1991, several large mineralized float boulders were found in the southern part of the Mess 2 claim. Mineralization consists of disseminated chalcopyrite mineralization associated with quartz carbonate alteration within a volcanic host rock. Two float samples returned 2,151 ppb gold, 10,123 ppm copper (91FD215MF001) and 2.26 oz/t silver, 4.16% copper (91SS215MF003). Several other samples returned anomalous results which are detailed in Table 4.

4.0 1991 EXPLORATION PROGRAM

Field work on the Mess property was carried out between August 25 and 28, 1991. This work consisted of helicopter supported reconnaissance prospecting and soil/stream sediment geochemical surveys.

4.1 Prospecting and Mapping

Mapping and prospecting traverses were plotted on a digitized 1:10,000 base map which was derived from a 1:50,000 topographic map. Approximately five kilometres of traverse was carried out on the property during the program.

Geological information obtained on traverse is found on Map 1.

4.2 Geochemistry

4.2.1 Sampling Procedures

A total of 17 rock samples, 30 soil samples and 10 silt samples were collected on the Mess 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 Map 2. Sample descriptions including geochemical results are included in Appendix IV. Geochemical results are plotted on Maps 3 through 5.

Two soil/silt sample contours were completed on the Mess 1 and 2 claims. Soil samples were collected at approximately the 4,500 foot level and at 100 metre spacings. The samples were generally talus fines or B horizon soils and were collected with a grub hoe.

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

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

4.2.2 Analytical Technique

All the samples were sent to the laboratories of Bondar-Clegg and Co. Ltd. in North Vancouver for analyses. This analysis comprised fire assay with atomic absorption finish for gold and a seven element ICP package (Ag, 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

Two soil samples returned results which can be considered as above background for this area. These are described in Table 2.

TABLE 2 ANOMALOUS SOIL SAMPLES	
Sample No.	Cu ppm
91FD215MS4500 9+00E	153
91FD215MS4500 3+00S	102

Two of the ten silt samples returned anomalous results. These are described in Table 3.

TABLE 3 ANOMALOUS SILT SAMPLES		
Sample No.	Zn ppm	As ppm
91TT215ML001	110	31
91TT215ML002	126	44

The other soil and silt samples returned values which would be considered as background (<9 ppb Au, <0.2 ppm Ag, <72 ppm Cu, <26 ppm Pb, <97 ppm Zn, <12 ppm As, <5 ppm Sb and <5 ppm Mo).

Significant rock sample results not discussed in Section 3.3 (Mineralization) include the following:

Sample No.	Au ppb	Cu ppm
91SC215MF005	15	1,503
91SS215MF002	93	7,058
91SS215MF004	729	8,215
91GG215MF004	-	6,012
91SC215MF006	-	3,387

5.0 CONCLUSIONS

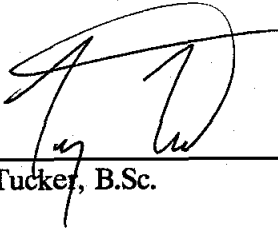
The Mess property is underlain by Upper Triassic to Lower Jurassic volcanics and sediments. During August 1991, a limited program of helicopter supported reconnaissance prospecting and geochemical sampling was carried out on the property. A total of 17 rock, 30 soil and 10 silt samples were collected on the property.

Several mineralized shear/fracture zones and quartz (\pm carbonate) veins which are hosted by felsic to intermediate pyroclastics and flows have been outlined on the northern part of the Mess 2 claim. Although partially obscured by overburden, these southeast to east-northeast trending structures appear to range from 0.09 to over 2.00 metres wide. Generally, copper mineralization, with geochemically anomalous silver values, is found within the shear/fracture zones in the Mess 1 claim and eastern half of the Mess 2 claim. Significant zinc and silver mineralization, with geochemically anomalous copper, gold, arsenic, lead and antimony, is found locally within the narrow quartz (\pm carbonate) veins on the western side of the Mess 2 claim. Further mapping and prospecting will be required to outline the extent of the mineralization. Several float boulders found on the southern part of the Mess 2 claim have

returned anomalous copper and gold values. Detailed mapping and prospecting will be required to locate the source of mineralization.

Respectfully submitted,

KEEWATIN ENGINEERING INC.



Terry L. Tucker, B.Sc.

6.0 REFERENCES

Logan, J.M., Koyangi, V.H. and Drobe, J.R. (1990): Geology of Forrest-Kerr Creek Area, Northwestern British Columbia (104B/15). British Columbia Resources, Geological Fieldwork 1989, Paper 1990-1.

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Minfile 104G (1989): Mineral Occurrence Map.

National Geochemical Reconnaissance, 1:250,000 Map Series (1988). Telegraph Creek, British Columbia (NTS 104F and G). Energy, Mines and Resources Canada, Geological Survey of Canada, GSC Open File 1646.

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Souther, J.G. (1972): Telegraph Creek Map Area, British Columbia (104G), G.S.C. Paper 71-44.

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Vancouver Stockwatch.

APPENDIX I

Statement of Qualifications

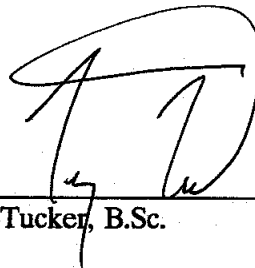
STATEMENT OF QUALIFICATIONS

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 25-28, 1991, on the Mess property as described in this report.
- 5) I am the author of the report entitled "Geological and Geochemical Report on the Mess Property, Liard Mining Division, British Columbia", dated October 28, 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 Skeena Resources Limited, in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 28th 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	1.0
Steve G. Creelman	Prospector	SC	2.0
Francois M.D. Depey	Field Assistant	FD	2.0
Steve Sheffield	Field Assistant	SS	1.0

APPENDIX III

Statement of Expenditures

STATEMENT OF EXPENDITURES

<u>Pre-Field</u> (maps, reports, permitting)	\$ 205.37
 <u>Field Program</u>	
<u>Personnel</u>	2,365.00
<u>Camp Support</u>	
Camp Costs	740.00
Expediting and Freight	62.20
<u>Transportation</u>	
Helicopter (3.6 hours)	2,827.95
<u>Geochemical Analysis</u> (40 soils/silts, 17 rocks)	715.00
<u>Tenure</u>	121.00
<u>Post-Field</u>	<u>935.00</u>
 TOTAL EXPENDITURES:	 <u>\$7,971.52</u>

APPENDIX IV

Rock/Soil/Silt Sample Descriptions and Results

KEEWATIN ENGINEERING INC

ROCK SAMPLE DESCRIPTIONS

PROJECT: MESS 215

RESULTS PLOTTED BY: Terry L. Tucker

FROM BONDAR-CLEGG REPORTS:

AREA:

MAP:

1309.0, 1309.1, 1309.5

COLLECTOR: Steve G. Creelman (SC), Terry L. Tucker (TT), Timothe L. Hutchings (TH), Steve Sheffield (SS)

SAMPLE NUMBER	LOCATION NOTES	DATE	ROCK TYPE	Type width(metres)	Description	Au	Au	Ag	Ag	Cu	Cu	Pb	Zn	As	Sb	Mo
						ppb	opt	ppm	opt	ppm	%	ppm	ppm	ppm	ppm	ppm
91 SC 215 M R 001	EL5300/N.SIDE OF GLACIER	AUG 25/91	Volcanic	GRAB	Fels/Volc contact:carb vn,1% spotty cpy	15		0.8		152		11	63	15	-5	2
91 SC 215 M R 002	EL5360/N.SIDE OF GLACIER	AUG 25/91	Qtz vein	GRAB	Frac-fill mal,cpy;tetra,gal to 3%,ZnS?	29		10.4		626		2748	13298	-5	17	18
91 SC 215 M R 003	EL5380/N.SIDE OF GLACIER	AUG 25/91	Qtz vein	GRAB	Cont. of vn(345/55W)30cm,less galena	649		3.5		497		769	4785	108	9	17
91 SC 215 M R 004	EL5380/N.SIDE OF GLACIER	AUG 25/91	Volcanic	GRAB	Sidewall volcs/2-3% cpy,mal,az	13		2.1		2842		59	394	-5	-5	5
91 SC 215 M F 005	3900' South side valley	AUG 28, 91	Volcanic	FLOAT	qtz/carb alt with 2% cpy, malachite	15		1		1503		53	178	26	67	2
91 SC 215 M F 006	4260' South side valley	AUG 28, 91	Porphyry?	FLOAT	quartz vein with diss to mass cpy(5%)	-5		-0.2		3387		6	27	13	-5	1
91 SC 215 M R 007	4090' South side valley	AUG 28, 91	Felsic Dyke	GRAB	felsic with minor quartz stringers	-5		-0.2		17		4	13	-5	-5	3
91 SS 215 M C 001	4300' south	Aug 25, 91	Volcanic	GRAB	altered volcanic	-5		0.5		390		4	47	35	15	2
91 SS 215 M F 002	4400' south	Aug 25, 91	Volcanic	FLOAT	<1% cpy in siliceous altered volcanic	93		2.5		7058		3	3	6	5	4
91 SS 215 M F 003	4400' south	Aug 25, 91	Volcanic	FLOAT	1% cpy in siliceous altered volcanic	225		50	2.26	20000	4.16	22	27	25	105	43
91 SS 215 M F 004	4400' south	Aug 25, 91	sediment	FLOAT	siliceous breccia, limonitic, tr cpy	729		3		8215		9	125	196	18	3
91 TH 215 M F 001	4100' North side valley	Aug 28, 1991	Andesite	FLOAT	calcite, barite vein	-5		-0.2		118		6	56	-5	-5	-1
91 TT 215 M F 001	north side of valley 6020'	Aug 25, 91	Volcanic	FLOAT	gossanous with quartz vein, 2% diss py	24		0.4		187		164	169	15	-5	1
91 TT 215 M R 002	north side of valley 6080'	Aug 25, 91	sediments	GRAB	trace pyrite in gossanous sed	-5		-0.2		6		5	51	-5	-5	2
91 TT 215 M R 003	north side of valley	Aug 25, 91	sediments	GRAB	<1 cm quartz vein in rusty seds	11		-0.2		10		17	67	33	-5	1
91 TT 215 M F 004	north side of valley	Aug 25, 91	Volcanic	GRAB	mal along frac in maroon volcanic	-5		5.8		6012		10	66	-5	-5	2
91 FD 215 M F 001	south side 4300'	Aug 28, 1991	Volcanic	FLOAT	cpy and mal in altered volcanic	2151	0.079	1.8		10123	0.94	7	9	79	29	10

KEEWATIN ENGINEERING INC

SOIL AND SILT SAMPLE DESCRIPTIONS

PROJECT: MESS 215 RESULTS PLOTTED BY: Terry L. Tucker From Bondar-Clegg reports:
 AREA: Mess Project MAP: NTS: 1309.0, 1309.1, 1309.5
 COLLECTORS: Francois J.M.B. Depey XXIV (FD), Terry L. Tucker (TR), Steve Creelman (SC),

SAMPLE NUMBER	DATE	LOCATION	HORIZON		ORGANICS		RESIDUAL			ASSAYS:									
			DEPTH	COLOUR	TRANSPORT	SLOPE	MOIST	NOTES	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Mo ppm			
1	91FD215MS4300'/0+00S	25 AUG, 91	MESS	B	15	0	Med brn	R	40N	med		-5	-0.2	39	7	30	-5	-5	-1
2	91FD215MS4500'/1+00S	25 AUG, 91	MESS	B	15	0	Med brn	R	35N	med		-5	-0.2	35	7	35	-5	-5	-1
3	91FD215MS4500'/2+00S	25 AUG, 91	MESS	B	15	0	Med brn	R	35N	med		-5	-0.2	42	8	34	-5	-5	-1
4	91FD215MS4500'/3+00S	25 AUG, 91	MESS	B	10	0	Med brn	T	35N	med		-5	-0.2	102	8	22	-5	-5	-1
5	91FD215MS4500'/4+00S	25 AUG, 91	MESS	B	10	0	Med brn	T	35N	med		-5	-0.2	44	6	31	-5	-5	-1
6	91FD215MS4500'/5+00S	25 AUG, 91	MESS	B	10	0	Med brn	T	35N	med		-5	-0.2	16	7	40	-5	-5	-1
7	91FD215MS4500'/6+00S	25 AUG, 91	MESS	B	10	0	Med brn	T	35N	med		-5	-0.2	20	10	50	-5	-5	-1
8	91FD215MS4500'/7+00S	25 AUG, 91	MESS	B	15	0	Med brn	T	35N	med		-5	-0.2	13	8	33	-5	-5	-1
9	91FD215MS4500'/7+75S	25 AUG, 91	MESS	B	15	0	Med brn	T	35N	med		-5	-0.2	24	10	39	5	-5	-1
10	91FD215MS4500'/8+00S	25 AUG, 91	MESS	B	15	0	Med brn	T	35N	med		-5	-0.2	23	8	40	-5	-5	-1
11	91FD215MS4500'/9+00S	25 AUG, 91	MESS	B	15	0	Med brn	T	35N	med		-5	-0.2	21	8	39	-5	-5	-1
12	91FD215MS4500'/10+00S	25 AUG, 91	MESS	B	15	0	Med brn	R	dir 30	med		-5	-0.2	16	4	32	-5	-5	5
13	91FD215MS4500'/11+00S	25 AUG, 91	MESS	B	15	0	Med brn	T	dir 60	med		-5	-0.2	16	4	32	-5	-5	-1
14	91FD215MS4500'/12+00S	25 AUG, 91	MESS	B	15	0	Med brn	R	dir 60	med		-5	-0.2	42	8	31	-5	-5	-1
15	91FD215MS4500'/13+00S	25 AUG, 91	MESS	B		0	Med brn		dir 60	med		-5	-0.2	26	9	31	-5	-5	-1
16	91FD215MS4500'/0+00E	28 AUG, 91	MESS	a-B	20	40	Med brn	R	25S	med		-5	-0.2	35	6	69	-5	-5	4
17	91FD215MS4500'/1+00E	28 AUG, 91	MESS	B	20	5	Med brn	R	30S	med		-5	-0.2	48	11	64	5	-5	2
18	91FD215MS4500'/2+00E	28 AUG, 91	MESS	B	20	20	Med brn	R	25S	med		-5	-0.2	48	9	71	6	-5	1
19	91FD215MS4500'/3+00E	28 AUG, 91	MESS	B	40	0	Med brn	T	30S	med		9	-0.2	72	11	74	-5	-5	2
20	91FD215MS4500'/4+00E	28 AUG, 91	MESS	B	10	0	Med brn	T	30S	med		-5	-0.2	60	7	66	-5	-5	-1
21	91FD215MS4500'/5+00E	28 AUG, 91	MESS	A-B	10	50	Dk brn	R	30S	med		-5	-0.2	30	7	74	7	-5	2
22	91FD215MS4500'/6+00E	28 AUG, 91	MESS	B	20	30	Med brn	R	20S	med		-5	-0.2	27	8	76	7	-5	1
23	91FD215MS4500'/7+00E	28 AUG, 91	MESS	B	10	40	Dk brn	R	25S	med		-5	-0.2	51	7	80	-5	-5	-1
24	91FD215MS4500'/8+00E	28 AUG, 91	MESS	B	5	0	Lt brn	T	35S	med		-5	-0.2	23	5	36	-5	-5	-1
25	91FD215MS4500'/9+00E	28 AUG, 91	MESS	B	30	40	Med brn	R	30S	med		-5	-0.2	153	6	48	8	-5	-1
26	91FD215MS4500'/10+00E	28 AUG, 91	MESS	A-B	20	50	Dk brn	R	20S	med		-5	-0.2	23	8	97	-5	-5	1
27	91FD215MS4500'/11+00E	28 AUG, 91	MESS - no sample																
28	91FD215MS4500'/12+00E	28 AUG, 91	MESS	B	20	20	Orange	R	25S	med		-5	-0.2	32	5	69	-5	-5	-1

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DATE PRINTED: 10-SEP-91

REPORT: V91-01309.0 (COMPLETE)

PROJECT: 215

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
91 FD 215 M S 45000+00F		<5	<0.2	35	6	69	<5	<5	4
91 FD 215 M S 45001+00F		<5	<0.2	48	11	64	5	<5	2
91 FD 215 M S 45002+00F		<5	<0.2	48	9	71	6	<5	1
91 FD 215 M S 45003+00F		9	<0.2	72	11	74	<5	<5	2
91 FD 215 M S 45004+00F		<5	<0.2	60	7	66	<5	<5	<1
91 FD 215 M S 45005+00F		<5	<0.2	30	7	74	7	<5	2
91 FD 215 M S 45006+00F		<5	<0.2	27	8	76	7	<5	1
91 FD 215 M S 45007+00F		<5	<0.2	51	7	80	<5	<5	<1
91 FD 215 M S 45008+00F		<5	<0.2	23	5	36	<5	<5	<1
91 FD 215 M S 45009+00F		<5	<0.2	153	6	48	8	<5	<1
91 FD 215 M S 450010+00F		<5	<0.2	23	8	97	<5	<5	1
91 FD 215 M S 450012+00F		<5	<0.2	32	5	69	<5	<5	<1
91 FD 215 M S 450013+00F		<5	<0.2	20	5	94	<5	<5	<1
91 FD 215 M S 450010+00S		<5	<0.2	39	7	30	<5	<5	<1
91 FD 215 M S 450011+00S		<5	<0.2	35	7	35	<5	<5	<1
91 FD 215 M S 45002+00S		<5	<0.2	42	8	34	<5	<5	<1
91 FD 215 M S 45003+00S		<5	<0.2	102	8	22	<5	<5	<1
91 FD 215 M S 45004+00S		<5	<0.2	44	6	31	<5	<5	<1
91 FD 215 M S 45005+00S		<5	<0.2	16	7	40	<5	<5	<1
91 FD 215 M S 45006+00S		<5	<0.2	20	10	50	<5	<5	<1
91 FD 215 M S 45007+00S		<5	<0.2	13	8	33	<5	<5	<1
91 FD 215 M S 45007+75S		<5	<0.2	24	10	39	5	<5	<1
91 FD 215 M S 45008+00S		<5	<0.2	23	8	40	<5	<5	<1
91 FD 215 M S 45009+00S		<5	<0.2	21	8	39	<5	<5	<1
91 FD 215 M S 450010+00S		<5	<0.2	16	4	32	<5	<5	5
91 FD 215 M S 450011+00S		<5	<0.2	16	4	32	<5	<5	<1
91 FD 215 M S 450012+00S		<5	<0.2	42	8	31	<5	<5	<1
91 FD 215 M S 450013+00S		<5	<0.2	26	9	31	<5	<5	<1
91 TT 215 M S 001		<5	<0.2	34	9	68	<5	<5	<1
91 TT 215 M S 002		<5	<0.2	68	8	65	<5	<5	<1
91 FD 215 M I. 001		6	<0.2	31	6	40	<5	<5	<1
91 FD 215 M I. 002		8	<0.2	70	26	44	5	<5	<1
91 FD 215 M I. 003		<5	<0.2	19	6	29	<5	<5	<1
91 FD 215 M I. 45003+35F		<5	<0.2	81	9	56	9	<5	<1
91 FD 215 M I. 45007+15F		<5	<0.2	60	12	61	<5	<5	<1
FD 215 M I. 45008+75F		<5	<0.2	27	9	31	10	<5	<1
FD 215 M I. 450010+60F		<5	<0.2	49	9	40	12	<5	<1
91 FD 215 M I. 450011+55F		<5	<0.2	49	9	46	<5	<5	<1
91 TT 215 M I. 001		<5	<0.2	53	23	110	31	<5	<1
91 TT 215 M I. 002		<5	<0.2	64	17	126	44	<5	<1

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REPORT: V91-111309.6 (COMPLETE)

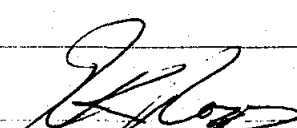
DATE PRINTED: 18-SEP-91

PROJECT: 215

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Cu PCT
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91 SS 215 M F IIII3		2.26	4.16
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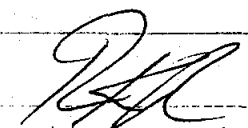
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PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Cu PCT
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91 SS 215 H F III3	2.26	4.16	
Duplicate		4.23	


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PROJECT: 215

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
91 FD 215 M F 001		2151	1.8	10123	7	9	79	29	10
91 SC 215 M R 001		15	0.8	152	11	63	15	<5	2
91 SC 215 M R 002		29	0.4	626	2748	13298	<5	17	18
91 SC 215 M R 003		649	3.5	497	769	4785	108	9	17
91 SC 215 M R 004		13	2.1	2842	59	394	<5	<5	5
91 SC 215 M F 005		15	1.0	1503	53	178	26	67	2
91 SC 215 M F 006		<5	<0.2	3387	6	27	13	<5	1
91 SC 215 M R 007		<5	<0.2	17	4	13	<5	<5	3
91 SS 215 M C 001		<5	0.5	390	4	47	35	15	2
91 SS 215 M F 002		93	2.5	7058	3	3	6	5	4
91 SS 215 M F 003		225	>50.0	>200000	22	27	25	105	43
91 SS 215 M F 004		729	3.0	8215	9	125	196	18	3
91 TH 215 M F 001		<5	<0.2	118	6	56	<5	<5	<1
91 TT 215 M R 001		24	0.4	187	164	169	15	<5	1
91 TT 215 M R 002		<5	<0.2	6	5	51	<5	<5	2
91 TT 215 M R 003		11	<0.2	10	17	67	33	<5	1
91 TT 215 M F 004		<5	5.8	6012	10	66	<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 SS 215 M F IIII?	93	2.5	71158	3	3	6	5	4	
Prep Duplicate	86	2.4	6732	4	2	8	<5	6	
Duplicate	97	2.8	7735	3	3	6	8	5	

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PROJECT: 215

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SAMPLE NUMBER	FLUORINE UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
91 FD 215 H S 45009+	<5	<0.2	153	6	48	8	<5	<1	
Duplicate	<5	<0.2	161	6	51	5	<5	<1	
91 FD 215 H S 450012	<5	<0.2	42	8	31	<5	<5	<1	
Duplicate	<5	<0.2	46	7	30	<5	<5	<1	
91 FD 215 H I 003	<5	<0.2	19	6	29	<5	<5	<1	
Duplicate	<5	<0.2							

Skuna-Mess

DATE PRINTED: 7-NOV-91
PROJECT: 215 PAGE 1

REPORT: V91-01309.5 (COMPLETE)

SAMPLE NUMBER	ELEMENT UNITS	AU OPT	Cu PCT
91 FD 215 M F 001		0.079	0.94

APPENDIX V

Sampling and Analytical Techniques

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**Certificate
 of Analysis**

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REPORT: V91-1113119.6 (COMPLETE)

REFERENCE INFO: SHIPMENT #1

CLIENT: KEFWATTIN ENGINEERING INC.
 PROJECT: 215

SUBMITTED BY: DICK TI
 DATE PRINTED: 18-SEP-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	1	0.02 OPT		Fire Assay
2	Cu	1	0.01 PCT	HCl-HNO3-HF	At Absorp -low level

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BHD ROCK	1	2 -150	1	SAMPLES FROM STORAGE	1

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**Geochemical
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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V91-01309.1 (COMPLETE)

REFERENCE INFO: SHIPMENT #1

CLIENT: KFFWATTN ENGINEERING INC.
 PROJECT: 215

SUBMITTED BY: DICK II
 DATE PRINTED: 11-SEP-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold 30 grams	17	5 PPM	Fire-Assay	Fire Assay AA
2	Ag Silver	17	0.2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu Copper	17	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb Lead	17	2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn Zinc	17	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
6	As Arsenic	17	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
7	Sb Antimony	17	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
8	Mo Molybdenum	17	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	17	2 -150	17	CRUSH, PULVERIZE -150	17
				TOO WET TO CRUSH	17

REMARKS: ASSAY OF HIGH Ag & Cu TO FOLLOW ON V91-01309.6

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REFERENCE INFO: SHIPMENT #1

CLIENT: KFFWATJN ENGINEERING INC.
 PROJECT: 215

SUBMITTED BY: DJCK II
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ORDER	ELEMENT		NUMBR OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold 30 grams	40	5 PPB	Fire-Assay	Fire Assay AA
2	Ag	Silver	40	0.2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu	Copper	40	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb	Lead	40	2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn	Zinc	40	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
6	As	Arsenic	40	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
7	Sb	Antimony	40	5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
8	Mo	Molybdenum	40	1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma

SAMPLE TYPES	NUMBR	SIZE FRACTIONS	NUMBR	SAMPLE PREPARATIONS	NUMBER
S SOILS	30	1 - 80	40	DRY, SIEVE - 80	40
T STREAM SEDIMENT, SILT	10				

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PROJECT: 215

PAGE 2

STANDARD NAME	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
ANALYTICAL BLANK	<5	<0.2	<1	<2	<1	<5	<5	<1	
ANALYTICAL BLANK	<5	<0.2	<1	<2	<1	<5	<5	9	
Number of Analyses	2	2	2	2	2	2	2	2	
Mean Value	2.5	0.10	0.5	1.0	0.5	2.5	2.5	4.6	
Standard Deviation	0.000	0.0000	0.000	0.000	0.000	0.000	0.000	5.77	

Accepted Value	5	-	-	-	-	-	-	-	
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GEO TRACE STD 3 1989	-	<0.2	261	27	216	28	<5	2	
Number of Analyses	-	1	1	1	1	1	1	1	
Mean Value	-	0.10	261.3	26.9	216.1	28.2	2.5	2.4	
Standard Deviation	-	-	-	-	-	-	-	-	
Accepted Value	-	0.5	290	33	255	30	5	4	

GEO TRACE STD-2 1989	-	4.3	744	185	413	242	40	416	
Number of Analyses	-	1	1	1	1	1	1	1	
Mean Value	-	4.32	744.4	184.6	412.8	242.3	39.5	415.8	
Standard Deviation	-	-	-	-	-	-	-	-	
Accepted Value	-	5.0	820	250	500	320	50	600	

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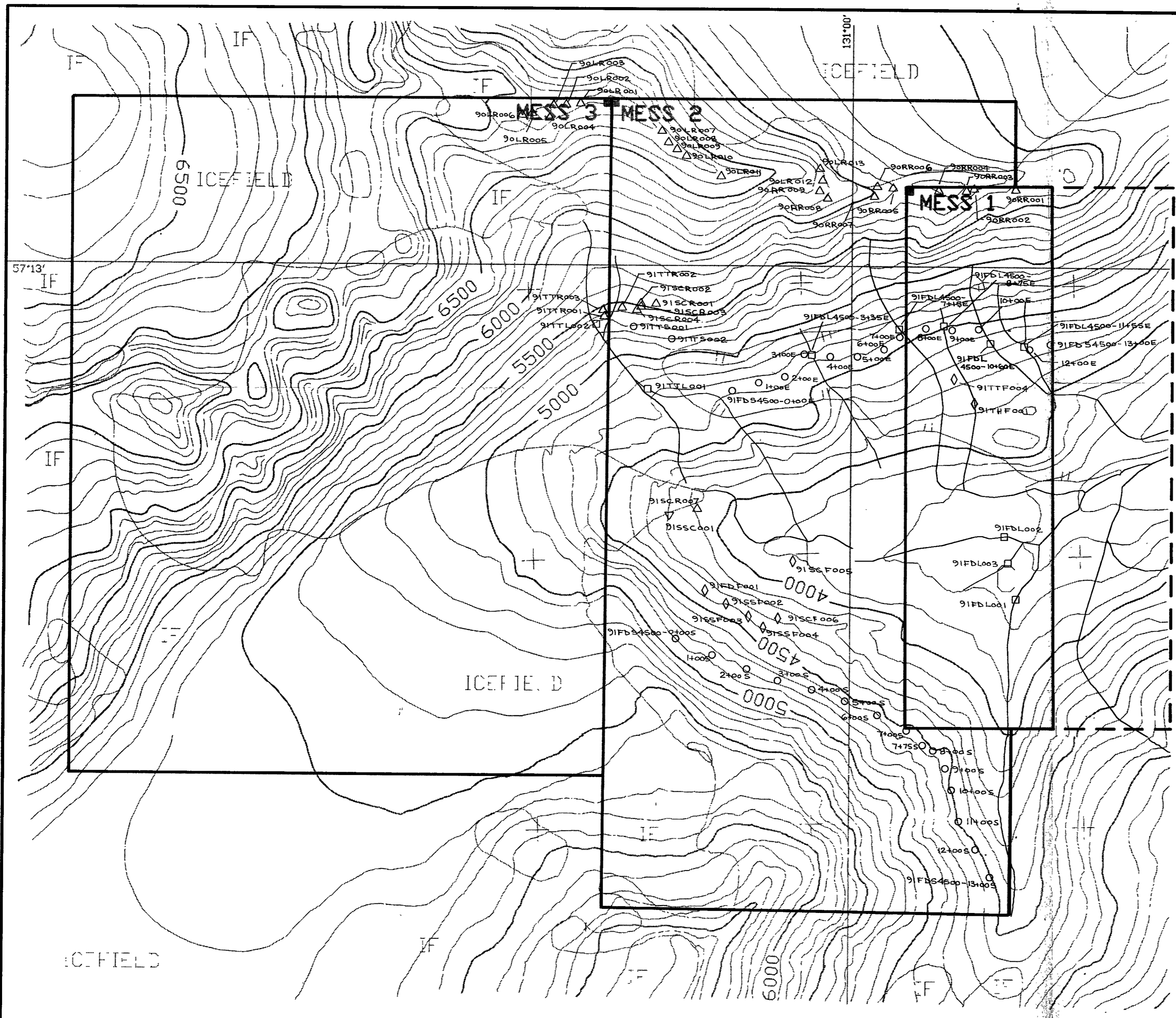
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PROJECT: 215

PAGE 2

STANDARD NAME	FILMINT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM
ANALYTICAL INK	<5	<11.2	<1	<2	<1	<5	<5	<1	
Number of Analyses	1	1	1	1	1	1	1	1	
Mean Value	2.5	11.11	11.5	1.11	11.5	2.5	2.5	11.5	
Standard Deviation	-	-	-	-	-	-	-	-	
Accepted Value	5	-	-	-	-	-	-	-	
GEO TRACE STD 3 1989	-	11.4	278	29	236	211	<5	2	
Number of Analyses	-	1	1	1	1	1	1	1	
Mean Value	-	11.41	278.5	29.3	236.1	19.9	2.5	2.0	
Standard Deviation	-	-	-	-	-	-	-	-	
Accepted Value	-	11.5	2911	33	255	311	5	4	

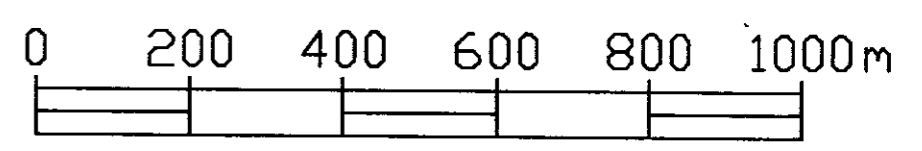


LEGEND

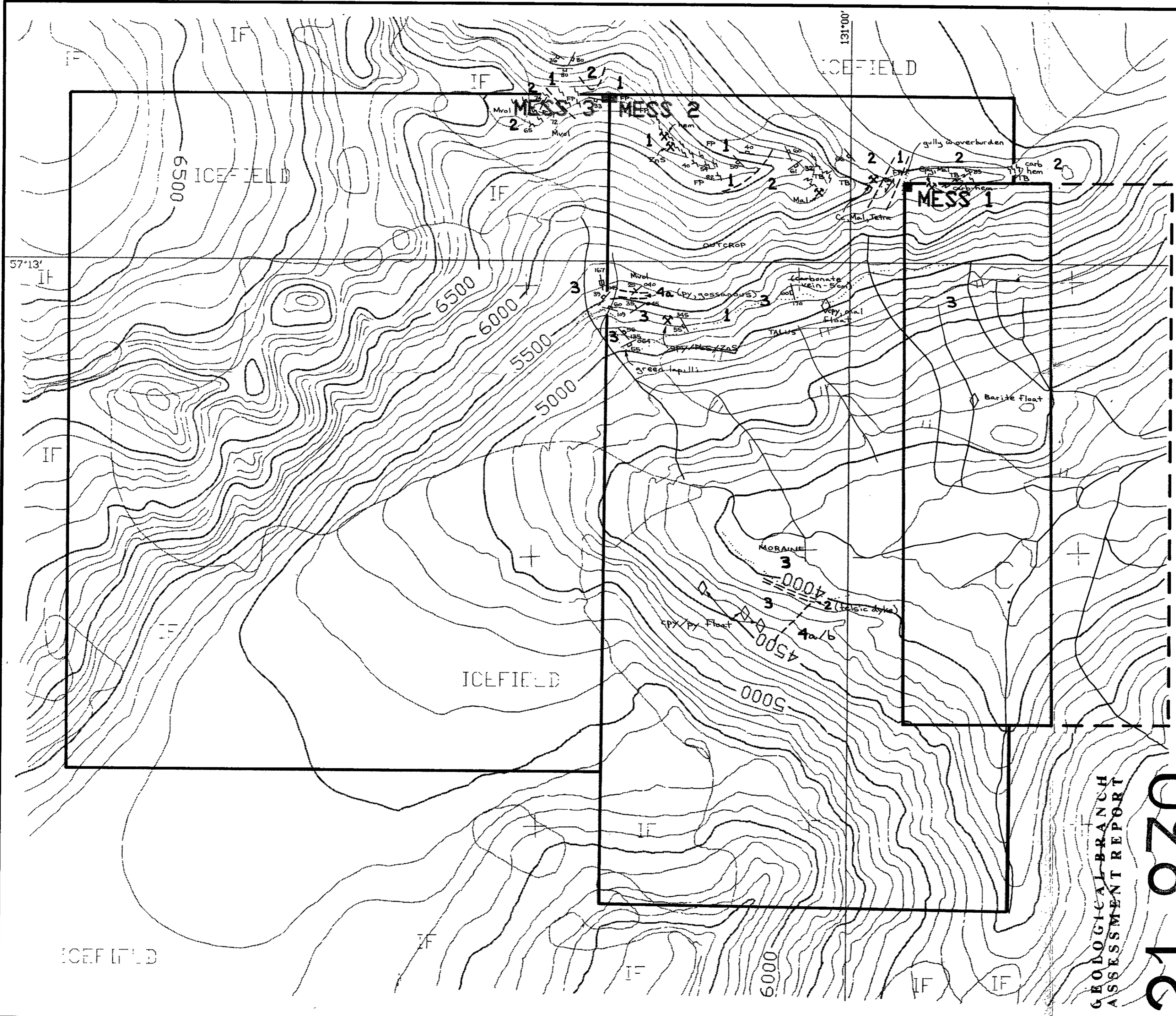
- Soil sample
- Silt sample
- △ Rock sample
- ▽ Rock chip sample
- ◇ Rock float sample
- 91TT004 Sample number
91 prefix - 1991 samples
90 prefix - 1990 samples

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,830



SKEENA RESOURCES LTD.	
MESS PROPERTY	
SAMPLE LOCATIONS	
DATE: NOV. 1991	NTS: 104G/3E,2W
PROJECT: 215	BY: TL TUCKER
SCALE: 1:10,000	
<i>Keewatin Engineering Inc.</i> MAP No. 2	

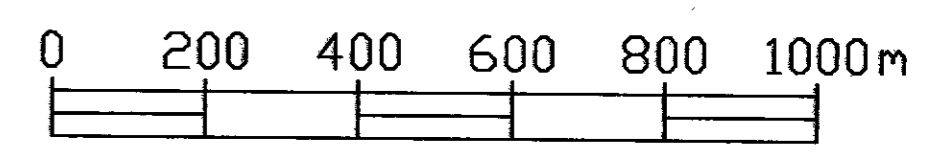


LEGEND

- 1 FP Feldspar porphyry
- 2 Mvol Intermediate to felsic volcanic
TB Tuff breccia to lapilli tuff
- 3 Maroon andesite volcanic
- 4 Sediments
a - sandstone
b - siltstone

- Cc Chalcocite
- Cpy Chalcopyrite
- Mal Malachite
- PbS Galena
- Py Pyrite
- Tetra Tetrahedrite
- ZnS Sphalerite

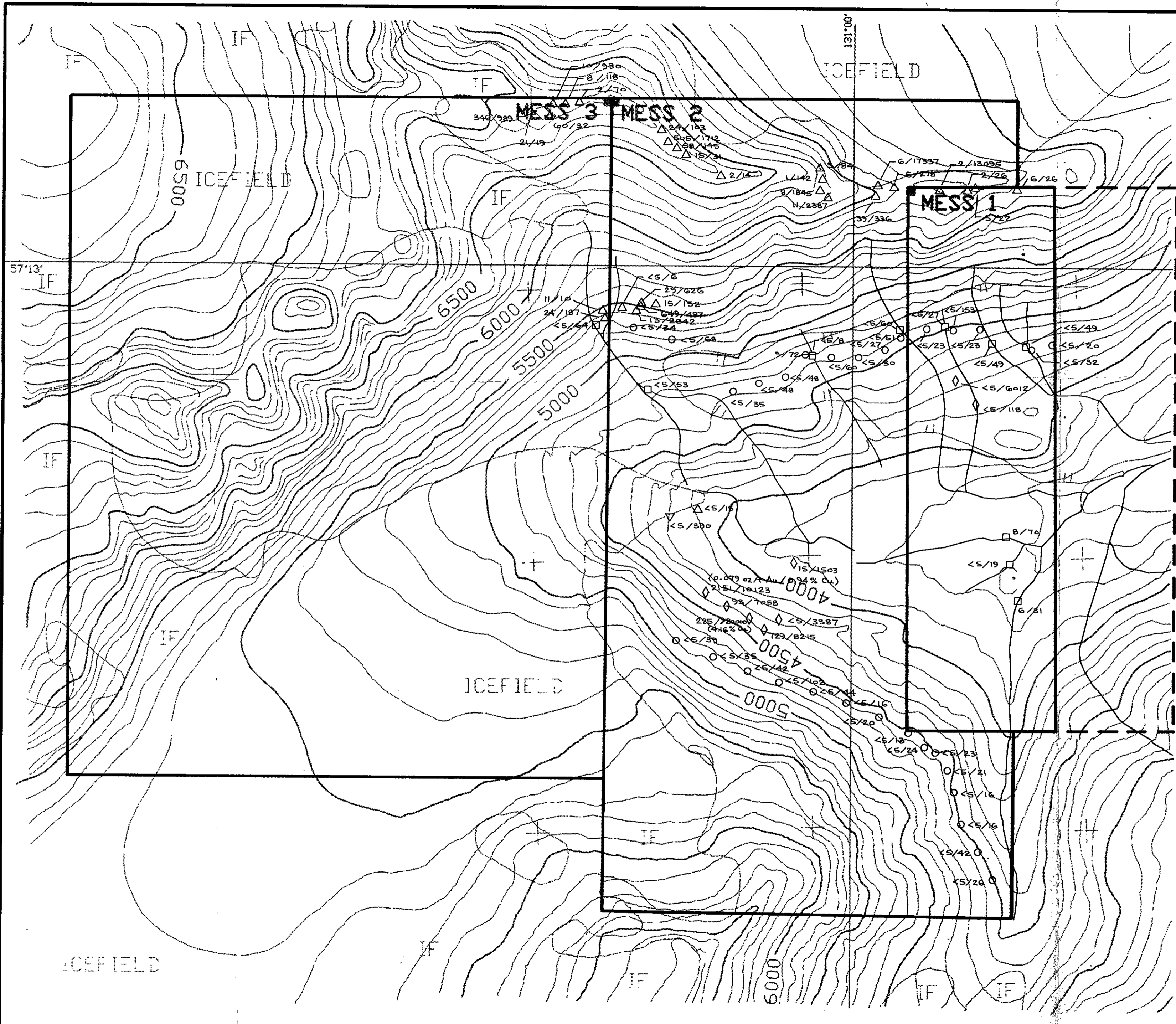
- ↔ Foliation
- ⊥ Bedding
- ⊥ Joint
- ↗ Shear zone
- ⊗ Mineral occurrence
- - - Geologic contact (assumed)
- Legal corner post (located)
- ◇ Rock float



Note: from Pegg 1990 and 1991 Field work

SKEENA RESOURCES LTD.	
MESS PROPERTY	
GEOLOGY	
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PROJECT: 215	BY: TL TUCKER
SCALE: 1:10,000	
<i>Keewatin Engineering Inc.</i>	MAP No. 1

**GEOLOGICAL BRANCH
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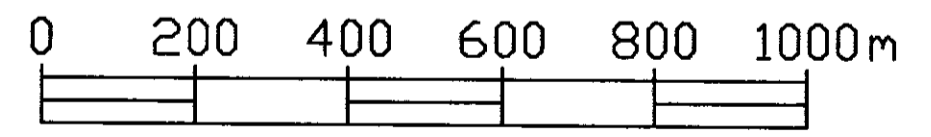


LEGEND

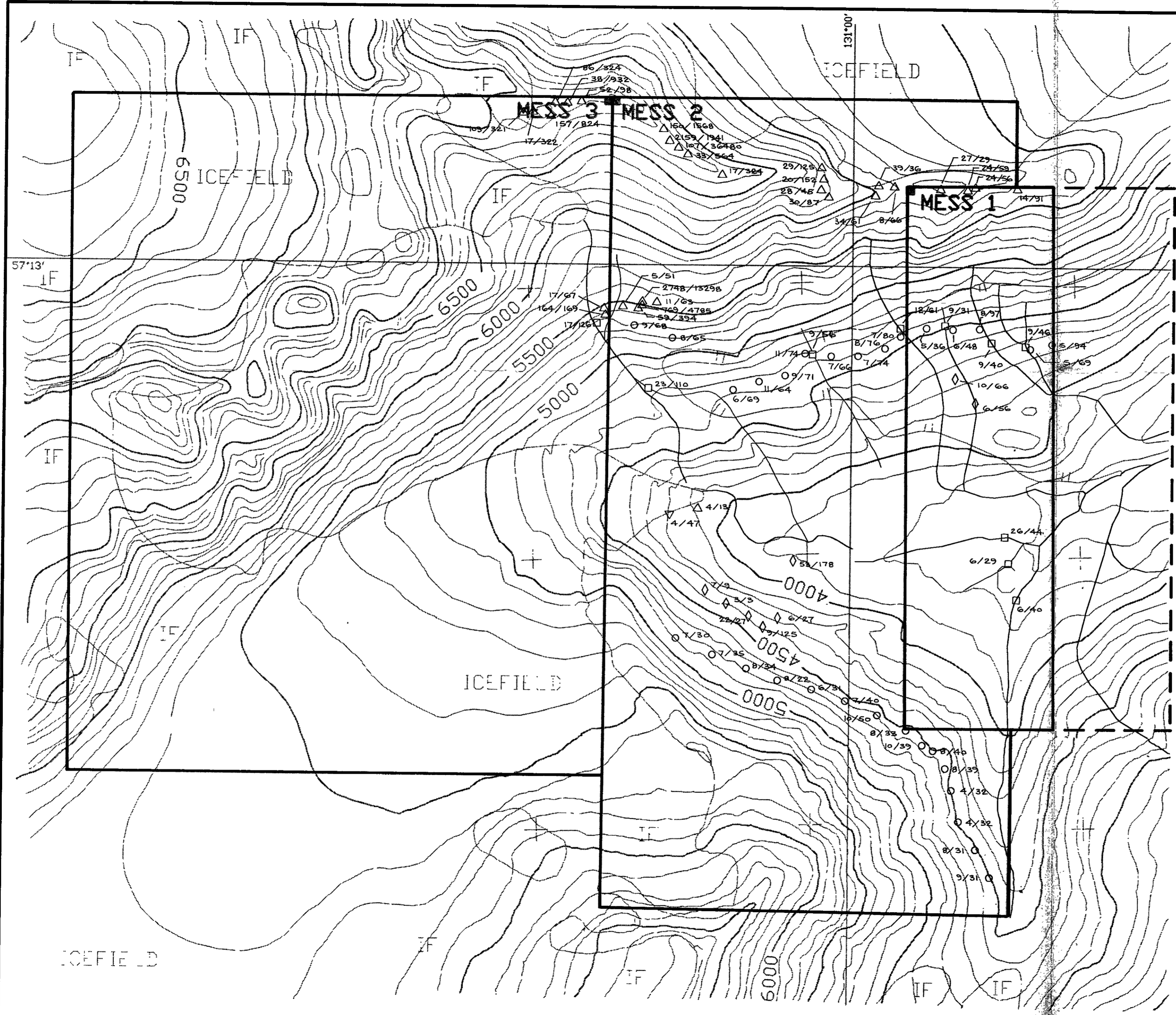
- Soil sample
- Silt sample
- △ Rock sample
- ▽ Rock chip sample
- ◇ Rock float sample
- 8/70 Au (ppb) / Cu (ppm)

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Au/Cu GEOCHEMISTRY	
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PROJECT: 215	BY: TL TUCKER
SCALE: 1:10,000	
<i>Keewatin Engineering Inc.</i> MAP No. 3	

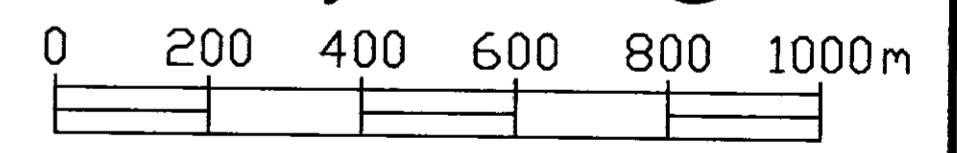


LEGEND

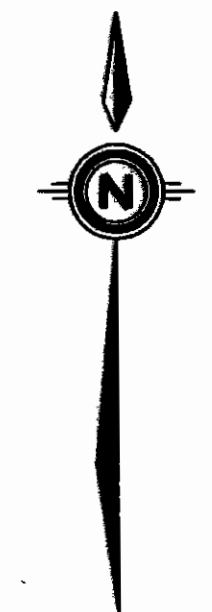
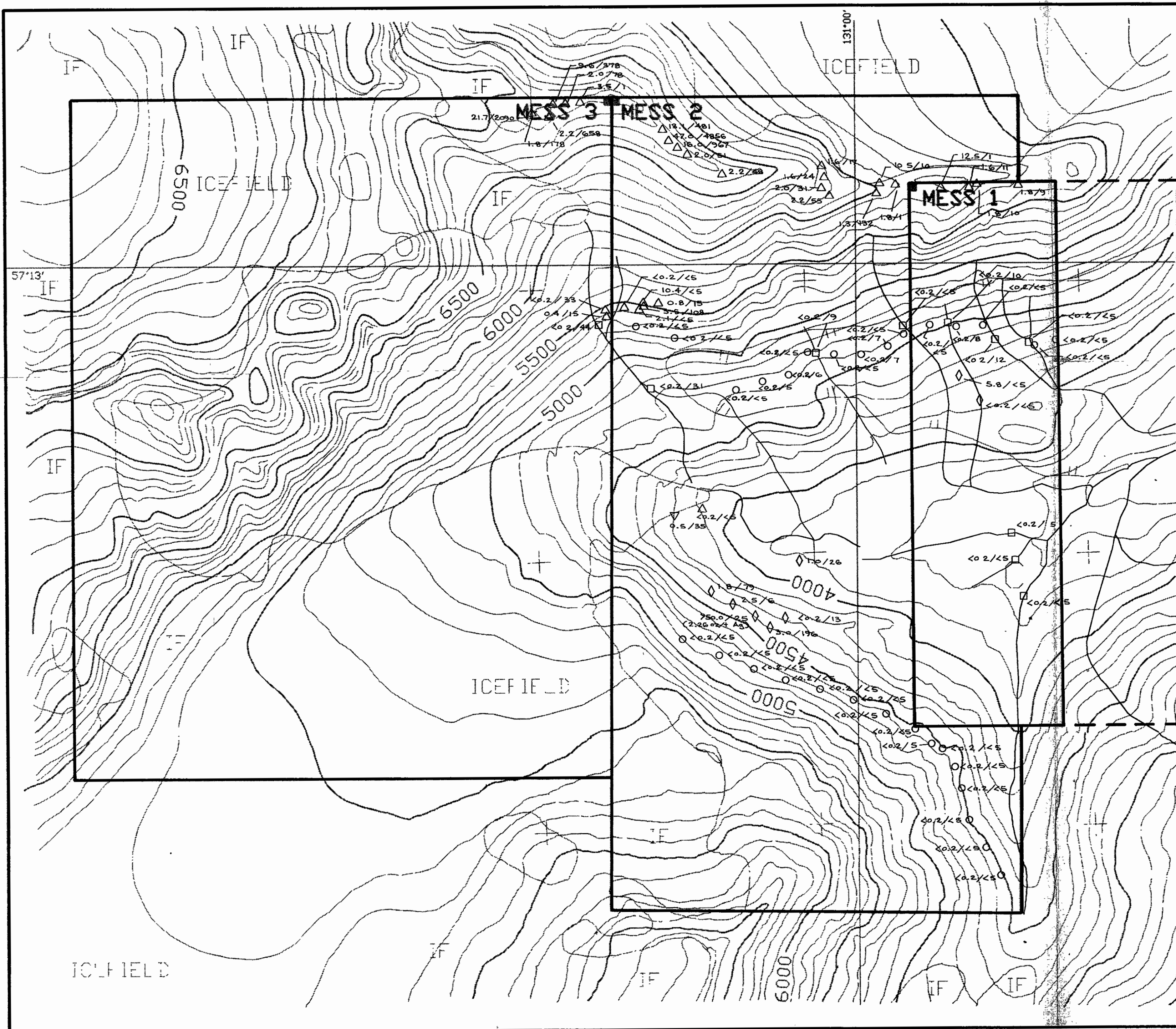
- Soil sample
- Silt sample
- △ Rock sample
- ▽ Rock chip sample
- ◇ Rock float sample
- 6/40 Pb (ppm) / Zn (ppm)

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Pb/Zn GEOCHEMISTRY	
DATE: NOV. 1991	NTS: 104G/3E,2W
PROJECT: 215	BY: TL TUCKER
SCALE: 1:10,000	
<i>Keewatin Engineering Inc.</i> MAP No. 4	

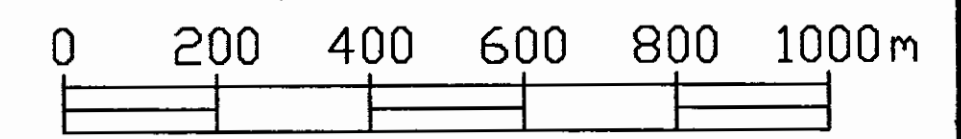


LEGEND

- Soil sample
- Silt sample
- △ Rock sample
- ▽ Rock chip sample
- ◇ Rock float sample
- 1.0/26 Ag (ppm) / As (ppm)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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SKEENA RESOURCES LTD.	
MESS PROPERTY	
Ag/As GEOCHEMISTRY	
DATE: NOV. 1991	NTS: 104G/3E,2W
PROJECT: 215	BY: TL TUCKER
SCALE: 1:10,000	
<i>Keewatin Engineering Inc.</i>	MAP No. 5