



41110NW0027 2.12866 MACLENNAN

010

ASSESSMENT REPORT
GEOLOGICAL AND GEOPHYSICAL SURVEYS
McVITTIE OPTION
MacLENNAN TOWNSHIP, ONTARIO
NTS: 41-I-10

2.12866

Qual. this report

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Technical Services, Inc.
Copper Cliff, Ontario
September, 1989



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SUMMARY

The McVittie Option consists of 12 mineral claims located in MacLennan Township approximately 25km northeast of Sudbury, Ontario. The property is underlain by Precambrian sediments of the Huronian Supergroup which are cut by Nipissing gabbros. These intrusives have locally brecciated and hydrothermally altered the country rocks. The main area of interest is located in the northern portion of the claim group at the contact between Nipissing gabbro, Mississagi Formation arkosic sediments and Espanola Formation limestones and calcareous siltstones. Assay values of up to 2.3 g/t gold have been obtained from samples collected from the property. Several old trenches were located but these are rubble filled and overgrown. Recommendations have been made to power strip the areas adjacent to the trenches.

1.0 INTRODUCTION

1.1 Location and Access

The property is located (Fig. 1) in the southeastern portion of MacLennan Township, approximately 25 km northeast of the City of Sudbury, Ontario, Sudbury Mining Division, NTS: 41-I-10. The claims can be accessed by travelling northeast along Highway 86, past the Sudbury Airport, towards the town of Skead. A secondary access road branches from Highway 86, approximately 4 km southwest of Skead, and continues east towards the Canadian National Railroad tracks. The tracks bisect the McVittie property.

1.2 Property

The property (Fig. 2) consists of 12 contiguous claims as listed below:

S 17397
S 17398
S 17399
S 994014 - 994016 (inclusive)
S 1076202 - 1076207 (inclusive)

A total of six claims, comprising 3 patented claims and 3 mining claims were optioned from the McVittie Group on October 1, 1988. An additional 6 claims staked by Inco Limited were recorded on May 5, 1989, and were included in the option agreement.

1.3 History

To date no work has been filed for assessment credit on the property. The 3 original patented claims are shown as occurrence No. 37 on OGS map P.2228. However, a property description could not be located within the references given. From the available information it appears that previous exploration consisted of a few shallow pits and trenches exposing quartz -carbonate veining. No recent exploration has been carried out on the property or in the immediate vicinity of the property. Inco optioned the property on May 5, 1989, and staked an additional 6 claims.

1.4 Summary of Inco Exploration Investigations

The geological survey of the McVittie property commenced on June 7, 1989 and was completed on June 26, 1989. The geophysical surveys started on August 31 and were completed on September 6. The geophysical coverage consisted of a magnetic and electromagnetic survey. Approximately 21 km of grid lines (Fig. 3) were mapped and surveyed and 121 grab and chip samples were collected. All samples were submitted for gold analysis.

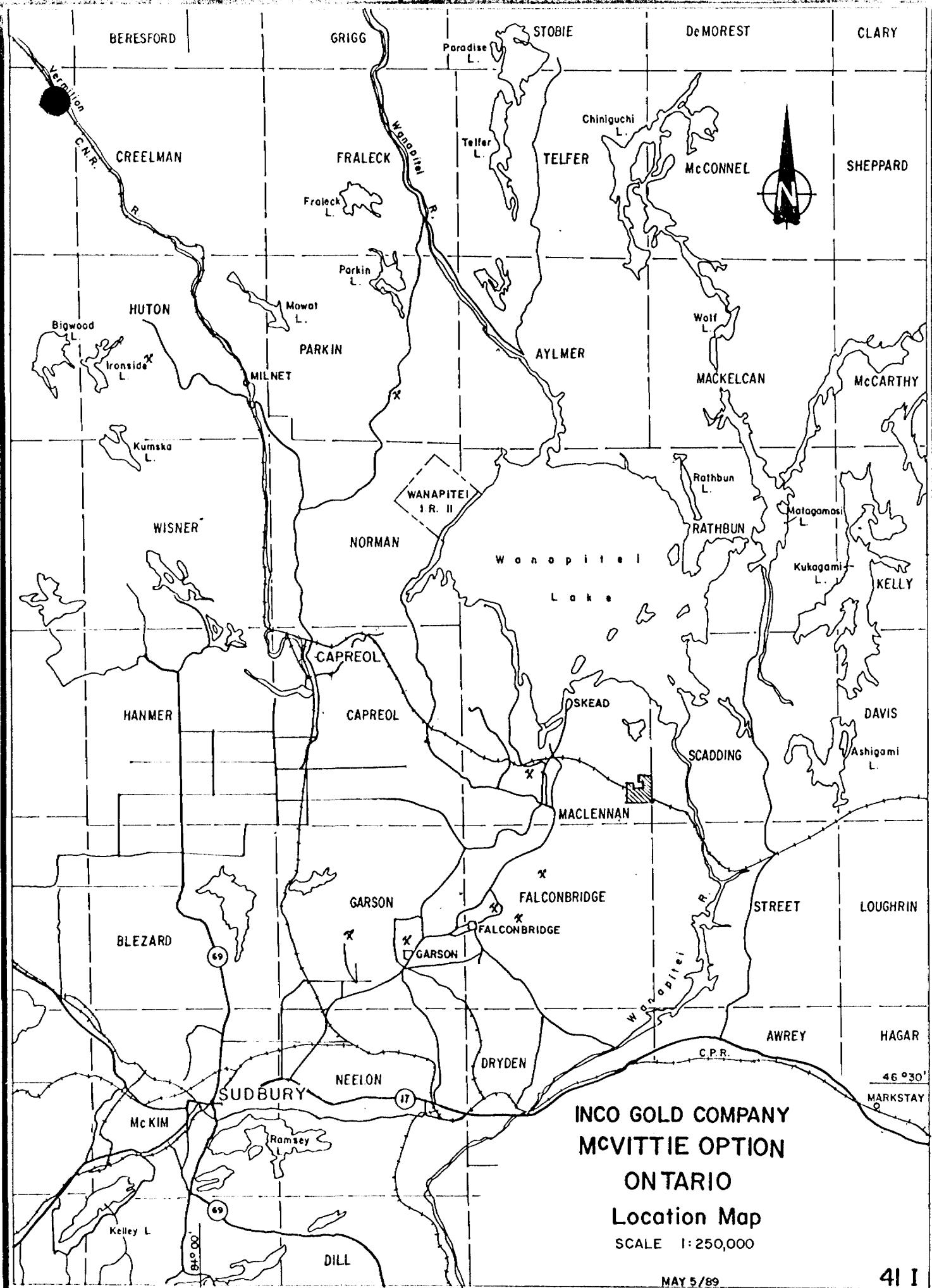


FIGURE 1

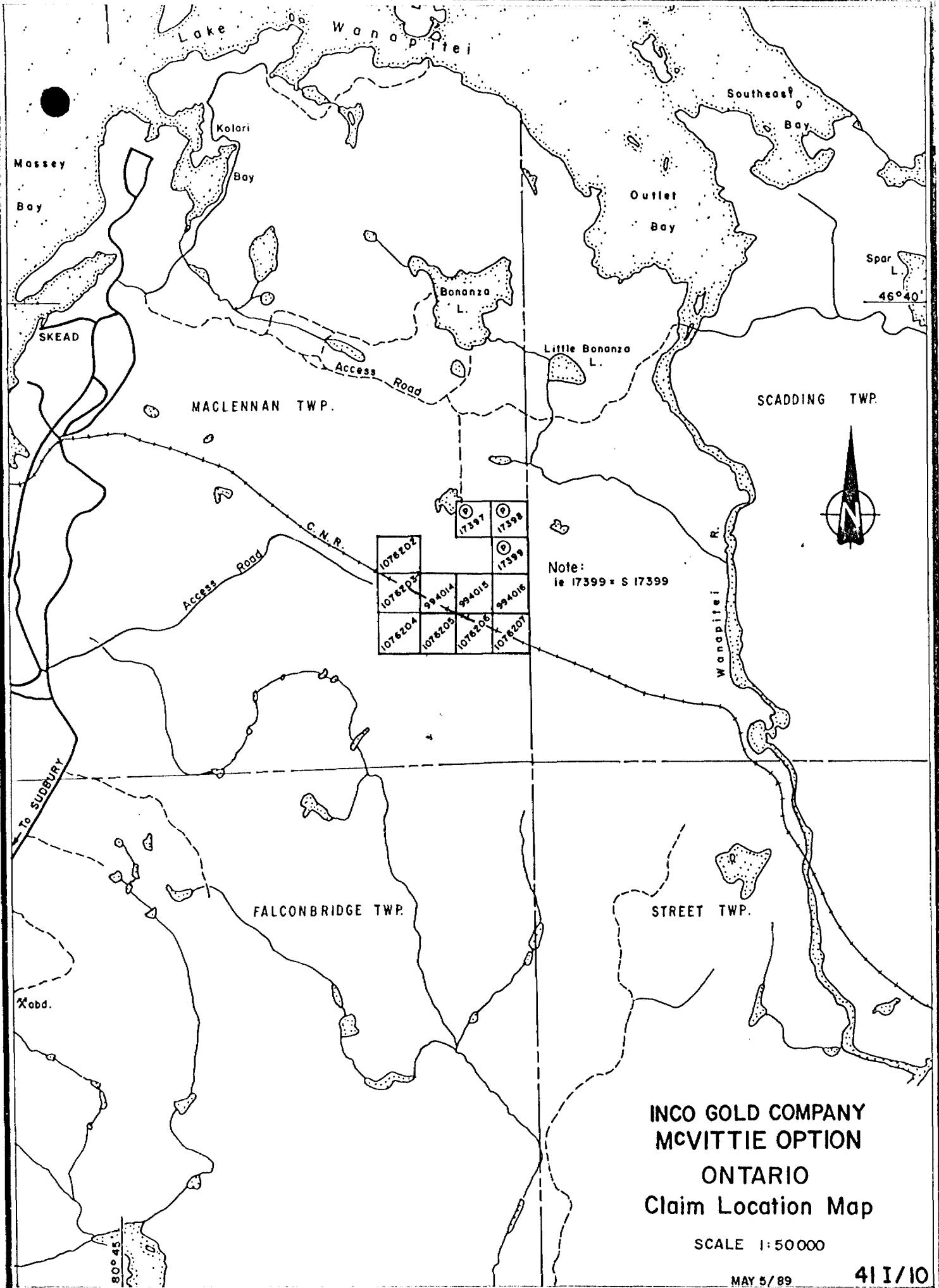


FIGURE 2

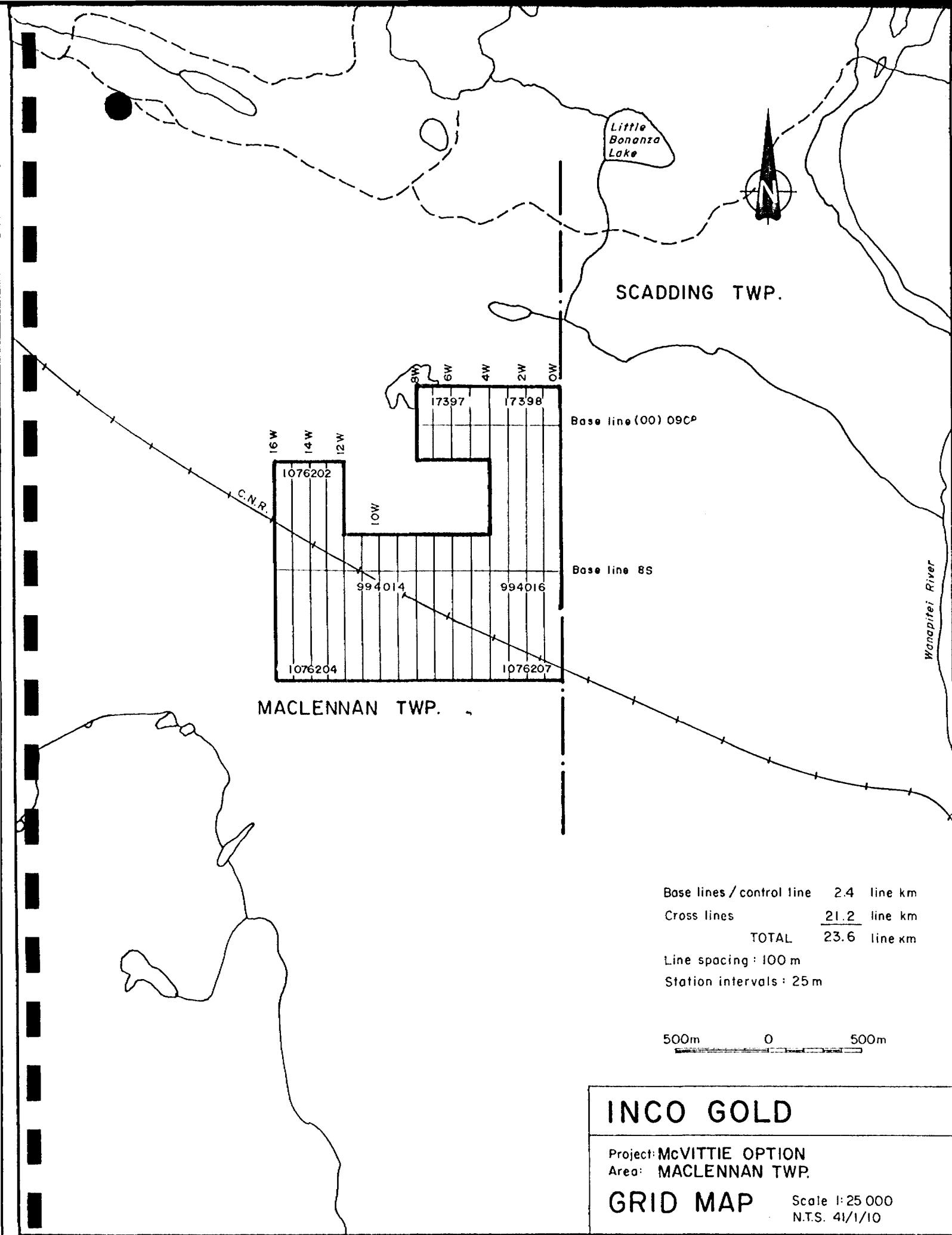


FIGURE 3

2.0 REGIONAL GEOLOGY

The map area lies within the Southern Structural Province near its intersection with the Superior and Grenville Structural Provinces. The area is underlain by Early Precambrian mafic to intermediate volcanics and by felsic plutonic rocks. Unconformably overlying these units are the sedimentary rock of the Huronian Supergroup. Middle Precambrian Nipissing gabbro intrudes all of the Early Precambrian rocks in the area.

3.0 PROPERTY GEOLOGY AND MINERALIZATION

The McVittie property (Fig. 4) is underlain by Mississagi Formation arkose, Espanola Formation calcareous siltstone and Nipissing gabbro intrusives. The largest portion of the property is underlain by arkose and arkosic wackes of the Mississagi Formation of the Huronian Supergroup. The arkose is typically fine grained, light grey to light green in colour, massive and has a granular or sugary texture. A trace amount of euhedral to subhedral pyrite is present in most of the samples.

In outcrop the arkose commonly weathers to a dark grey colour and locally to a rusty colour. The unit is weakly to moderately foliated and is locally well bedded. Crossbedding can also be locally observed in the arkose. The bedding varies in strike from 073 degrees to 092 degrees and dips steeply from about 80 degrees north to vertical. Some apparently erratic strike and dip measurements were obtained from the map area, however, these readings appear to be due to brecciation within particular units. The arkose is brecciated along the margins of the Nipissing gabbro intrusion and breccia fragments range in size from 0.3 m to 3.0 metres.

Nipissing gabbro intrusions occur in two localities in the northeastern part of the map area. The bodies vary from 50 metres wide to 350 metres wide, strike northwest from 280 degrees to 300 degrees and dip from 80 degrees north to vertical. Large rafted blocks of arkose can be observed locally throughout the bodies. The gabbroic intrusions appear to have brecciated and hydrothermally altered the arkose at the contact between the two units. The altered arkose is light pink to tan coloured, fine grained and massive. In thin section, the altered arkoses can be seen to contain andesine to labradorite rich plagioclase feldspars. Mineralization in the altered arkose consists of a trace to 1% scattered pyrite. The alteration occurs in the northern portion of the map area between the gabbroic intrusions from line 100W to line 400W and from line 1100W to line 1600W, all north of the 700S baseline. The alteration in the arkose may be directly associated with the intrusion of the Nipissing gabbro since the alteration appears as a halo effect around the gabbro bodies.

Quartz veins and quartz-carbonate veins commonly occur in the arkose near the contact with the gabbro intrusions. The veins vary from 30 mm to 50 cm in width and from 30 mm to several meters in length. The orientation of the veins is

random and reflects the jointing and fracture pattern within the arkose unit. Both calcite and iron carbonate occur within the veins. Sulphide mineralization within the veins consists of a trace of pyrite. Quartz and quartz-carbonate veining can also be observed in brecciated arkose outcrops. The brecciated arkose fragments are locally set in a quartz and carbonate healed matrix similar to the occurrence on line 1400W and line 350S.

Due to the spatial relationship of the veins, it appears that the quartz and quartz-carbonate veins are directly associated with the hydrothermal activity related to the emplacement of the gabbroic intrusions.

All type samples collected from gabbro, arkose, and quartz-carbonate veins on the property, returned assays of 35 ppb Au or less. Most of the values obtained assayed <5 ppb Au. Two anomalous assays of 55 ppb Au and 315 ppb Au were obtained from samples collected from an old pit (Fig. 7) located on line 480W at 100N. The pit is approximately 5 metres wide by 7 metres long and is extensively overgrown. Examination of the boulders in the pit revealed quartz and iron carbonate veining as well as tan coloured alteration with up to 1% fine grained, subhedral pyrite. This pit was examined early in 1988 by Inco Exploration personnel and 11 samples were collected. The highest assay from these samples yielded 2.3 g/t gold.

The contact between the Espanola Formation calcareous siltstones and the Nipissing gabbro is exposed in an outcrop north of the pit on line 460W at 120N. The unit is well bedded with alternating limestone and calcareous siltstone beds; the individual beds vary from about 1 cm to 4 cm thick. The limestone strikes at about 060 degrees and dips at 56 degrees to the west. The contact with the gabbro strikes at about 116 degrees and dips 61 degrees southwest. Another limestone exposure in the same outcrop area has contacts at 107/78 northeast and 052/85 north. The gabbro appears to enclose the outcrops of limestone and this apparent discontinuity of the limestone exposures and the irregular nature of the gabbro-limestone contacts suggests that these are blocks of limestone rafted within the gabbro. If this assumption is correct then the actual gabbro-limestone contact lies a short distance north of this exposure.

Calcareous siltstone is also exposed in the extreme north end of the map area on line 200W at 150N. The bedding orientation is 055/82N and an assay of <5 ppb Au was obtained from a sample collected at this location.

3.1 Power Stripping

Carman Construction of Sudbury was contracted to provide a D7 bulldozer and operator to strip outcrops on the McVittie property. Three sites were selected for stripping; all had been previously trenched or pitted and had returned anomalous assays from the summer mapping program.

The first site (Figure 5) is centred on L300W at 140S with an exposed area approximately 40 x 50 metres. Arkosic sediments are found in the southern portion of the stripped area with the Nipissing Gabbro occurring in the northern portion. The arkose has been recrystallized throughout the area and inclusions as well as short discontinuous beds can be found in the gabbro. Thirty-three samples were collected from the area; the highest value recorded was 90 ppb gold with a low of <5 ppb gold.

The second site (Figure 6) is centred on L1400W at 330S where outcrop was exposed in an area 40 m x 60 metres. The area is underlain by recrystallized arkosic sediments, a portion of which has been brecciated. The gabbro is believed to underlie the sediments at a shallow depth and its proximity recrystallized and brecciated the sediment. The brecciated area displays large arkosic blocks and fragments in a quartz "sweat" matrix. Both fragments and matrix were sampled; a high value of 30 ppb and a low of <5 ppb gold were returned from 38 samples.

The third site selected (Figure 7) is centred on 480 at 115N. Sampling returned anomalous assays from the preliminary examination and from the summer mapping program as well as the stripping program. Arkosic and argillic sediments occur as large rafted blocks and roof pendants in the gabbro intrusion. Three samples returned values which ranged from 1 ppm gold to 2.14 ppm gold. The anomalous samples consisted of recrystallized arkose with increased sulphide content. Adjacent samples, although anomalous, returned significantly decreased values suggesting that the mineralization is narrow with limited lateral extent.

The stripping program did not locate any significant new mineralization and did not increase the potential of the property.

4.0 GEOPHYSICAL SURVEYS

4.1 Instrumentation

4.1.1 Magnetic

The survey was carried out with microprocessor controlled proton precession magnetometers built by EDA Instruments of Toronto, Ontario. These instruments measure the total magnetic field in nano Teslas (nT). These magnetometers have an accuracy of 0.1 nT. Diurnal variations are corrected by interpolation with magnetic base station recordings.

The results of the survey were computer plotted and contoured on maps at a scale of 1:2,500. To prepare the data for computer contouring a nine point Hanning filter was applied and a further three point Hanning filter was used to suppress sharp changes of the magnetic values.

4.1.2 Electromagnetic

The survey was performed with EM-16 VLF receivers manufactured by Geonics Ltd. of Toronto. These receivers operate on the signal transmitted by stations of the US Navy. They measure the tilt angle and the quadrature component of the resultant electromagnetic field.

Copies of the manufacturers' specification for both instruments can be found in the appendix to this report.

4.2 Magnetometer Survey

Magnetometer readings were taken at 12.5m station intervals along the grid lines and the results were plotted on a map with contour intervals of 20nT.

The results of the survey show two distinct magnetic features. The larger one is a positive anomaly of 500 to 1000nT in the southern portion of the surveyed area striking at a angle of 120 degrees. This is a relatively wide anomaly which indicates a dike like feature which is steeply dipping to the south. In the north-east quadrant of the map a similar but much smaller anomaly can be found. This anomaly is about 75m wide and indicates a near vertical dipping dike. Both anomalies are probably caused by olivine-diabase dikes or mafic sills that do not outcrop.

4.3 Electromagnetic Survey

The electromagnetic survey was carried out using the VLF transmitter Cutler, Maine (NAA) which transmits at a frequency of 24.0kHz. The results were plotted as stacked profiles with a scale factor of 1cm equals 20 degrees tilt angle and 1cm equals 20% quadrature on maps at a scale of 1:2,500. Readings were taken at a station interval of 25m along the grid lines.

The results of the VLF-EM survey are severely distorted by the railway tracks that cross the lower portion of the property. There are however several VLF conductors that may be caused by superficial materials such as swamp edges and overburden troughs. They strike in an east-west direction in the southern portion of the grid. Typical conductors of this type are between 1300W/1100S and 1700W/1150S and between 00/1100S and 500W/925S. A short conductor shown between 1000W/975S and 1200W/1000S is possibly caused by a structural feature such as narrow shear zone. There is also a trend of very weak anomalies indicating a feature that is parallel to the magnetic anomaly in the north east corner of the area between 0/225S and 700W/100N. This may indicate some fracturing in the very shallow rock.

4.4 Statistics

Cross lines cut:	21km
Base lines cut:	2.6km
Magnetic readings:	1700
Electromagnetic readings	818

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the exploration data collected from the McVittie Option, the main area of interest is located in the northernmost section of the claim group where anomalous gold values were obtained at or near the Nipissing gabbro - Espanola Limestone contact. It is recommended that the area be stripped so that a more detailed examination of the mineralization can be made.

6.0 BIBLIOGRAPHY

Bell, R.

1981: Internal Memo, Canadian Nickel Company Ltd. NTS: 41-I-10.29

Dressler, B.O.

1982: Geology of the Wanapitei Lake Area, District of Sudbury, Ontario Geological Survey, Geological Report 213, p.131.

APPENDIX 1

Sample Description Sheets

INCO GOLD

TRAVERSE NUMBER 1
N.T.S. H1 I 10PROJECT McVittie
AREAGEOLOGIST(S) K. Hannila
DATE Oct. 18/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Drip, Champ!				Au P P b	An P P M		
x155685		M1				Arkose fragment, recrystallized pinkish gray, fine grained, arkosic brecchia fragment (30cm x 20cm), pyrite < 1%		25		
x155686		M2				Quartz sweat, matrix to sample M1, lt grayish white, massive, pyrite nil to trace.		5		
x155687		M3				Arkose fragment as for M1		5		
x155688		M4				Quartz sweat (matrix), 2 meters long x 10cm wide, very slightly gneissed, trace pyrite.		<5		
x155689		M5				Arkose, fg recrystallized, pinkish gray, quartz veined 1cm, py 1-2%		25		
x155690		M6				Arkose recrystallized, minor quartz veining, pyrite trace to 1%		30		
x155691		M7				Quartz sweat (matrix) 15x30cm surrounding arkosic fragment, trace pyrite.		10		
x155692		M8				Arkosic fragment recrystallized fg, pinkish gray, pyrite trace to 1%		15		
x155693		M9				Arkosic fragment, fg quartz vein'd, sulphides (py) trace to 1%		5		

RECORDED

TRAVERSE NUMBER 2
N.T.S. 41 I 10PROJECT McVittie
AREAGEOLOGIST(S) K. Hannila
DATE Oct. 18/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, and/or U.T.M. AREA	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)		
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Chip, Channel			Au P b	An P M	
x155694		M10			Quartz sweat (matrix) 15x20cm py. ntl to trace	10		
155695		M11			Quartz sweat (matrix) 10x30 cm interstitial to quartz arkosic fragments	5		
155696		M12			Arkose fragment recrystallized slightly quartz veined, pyrite tr. to 1%	<5		
155697		M13			Arkose fragment recrystallized 5-10% quartz veining, pyrite trace to 1%	5		
155698		M14			Arkose fragment recrystallized minor quartz veining, pyrite trace to 1%	<5		
155699		M15			Quartz sweat matrix, 70x10cm very slight gassan	<5		
155700		M16			Arkose recrystallized, lg 10-70% quartz veining, pyrite trace to 1%	<5		
155701		M17			Quartz sweat (matrix) 10x40cm, barren	5		
155702		M18			Arkose recrystallized quartz veining < 1cm size, 5-10% pyrite trace to 1%	10		

RCO-GOED

TRAVERSE NUMBER 3
N.T.S. 41 I 10PROJECT McVittie
AREA _____GEOLOGIST(S) K. Hannula
DATE Oct. 18, 89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Chip, Chanel				Au P P b	Au P M		
Rx155703		M19				Arkose recrystallized, fq minor quartz veining, pyrite 1%		15		
x155704		M20				Arkose recrystallized, gossanous, minor quartz veining, pyrite trace to 1%		10		
155705		M21				Quartz sweat(matrix) 10x15 cm pyrite trace		<5		
155706		M22				Arkose recrystallized moderate gossan, minor quartz veining, pyrite trace to 1%		5		
x155707		M23				Arkose recrystallized 10-20% quartz veining, pyrite trace to 1% sample taken above large quartz in pit sampled by J. Taekes		<5		
155708		M24				Arkose recrystallized, pinkish orange, slight gossan, trace pyrite		<5		
x155709		M25				as for M24		10		
x155710		M26				Arkose recrystallized, quartz veined 10-20%, pyrite trace to 1%		<5		
x155711		M27				Arkose recrystallized, pinkish orange fine grained, quartz veined 10-20%, pyrite trace to 1%		15		

INCO GOLD

TRAVERSE NUMBER 4
N.T.S. H1 I 10PROJECT McVittie
AREA GEOLOGIST(S) K. Hannila
DATE Oct. 18, 1989

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Ship, Channel				Au P B	Au P M		
x155712		M28				Arkose recrystallized, pinkish orange, minor quartz veining pyrite trace to 1%	<5			
x155713		M29				Arkose recrystallized, pinkish gray, gossanous, pyrite trace to 1%	5			
x155714		M30				Arkose recrystallized, pinkish gray, slightly gossanous, pyrite trace to 1%	<5			
x155715		M31				Arkose recrystallized, pinkish gray, moderately gossanous, pyrite trace to 1%	10			
x155716		M32				Arkose recrystallized, pinkish gray, w/ very light green pegmatitic veins (arkose-gabbro hybrid), pyrite trace to 1%	5			
x155717		M33				Arkose recrystallized, bleached It pinkish gray, pyrite trace to 1%	<5			
x155718		M34				Quartz sweat (matrix) white 15x50 cm, barren	<5			
x155719		M35				Arkose recrystallized, It pinkish to greenish gray, trace pyrite	<5			
x155720		M36				Arkose recrystallized, It pinkish gray, trace pyrite	<5			

ENCO GOLD

TRAVERSE NUMBER 5
N.T.S. 41 I 10PROJECT Mc V. Hill
AREA _____GEOLOGIST(S) K. Hannila
DATE _____

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, and/or AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Ship, Channel				An	An	P	P
x155721		M37				Arkose recrystallized greenish gray, sheared, trace pyrite		10		b M
x155722		M38				Arkose recrystallized, greenish gray, trace pyrite		55		
McVittie Site #2										
x155723		M39				Arkose recrystallized, pinkish gray pegmatitic texture, 60-70% K feldspar 25-30% quartz, 5-7% biotite, quartz occurring as sweets, strong surface gossan, pyrite 1 to 3%	155			
x155724		M40				Arkose recrystallized, pinkish gray and creamy white, coarse grained (pegmatitic), 2/3 pink feldspar, 1/3 white feldspar, 75-80 feldspar, 15-20% quartz, 3-5% biotite, trace to 1% pyrite, strong surface gossan	55			
155725		M41				Arkose recrystallized, pinkish gray pegmatitic texture, 60-70% feldspar 25-30% quartz as 2 mm veins and 1x2 cm sweets (blobe), biotite 1-3% pyrite 2 to 3% disseminated surface gossan	145			

INCO-GOLD

TRAVERSE NUMBER 6
N.T.S. 41 I 10PROJECT McVittis
AREA _____GEOLOGIST(S) K. Hannila
DATE _____

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Brip, Changal				Au P P b	Au P M		
x155726		M42				Arkose recrystallized, pinkish gray, fine grained feldspar 50-60%, massive coarse grained quartz 40-50%, pyrite 1-3%, surface quartz rind weak surface gossan, blebby pyrite 1-3%	570			
x155727		M43				Arkose recrystallized, pinkish gray, very fine grained massive, 75 to 85% feldspar, 15-20% quartz, blebby pyrite 1-3%, fresh, surface gossan	1 ppm			
x155728		M44				as for M43 but py 1-3% veined in 1mm veins	2.03 ppm			
x155729		M45				Arkose as for M43 but biotite content 15-20%, rock is a Quartz - Biotite - Feldspar - Griss, pyrite trace to 1%, weak surface gossan	715			
x155730		M46				Graywacke recrystallized It gray to gray, fine grained with relief sedimentary granular texture weakly grissic, quartz 50-60%, feldspar 40-50%, biotite 7-10%, pyrite trace to 1%, strong surface gossan 3 mm thick, disseminated pyrite trace to 1%	10			

INCO GOLD

TRAVERSE NUMBER 7
N.T.S. 41 I 10PROJECT Mc Vittie
AREA _____GEOLOGIST(S) K. Hannila
DATE _____

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Ship, Channel				Au	Au	P	P
155731		M47				Arkose recrystallized, lt pinkish gray, fine grained, feldspar 60-70%, quartz 30-40%, biotite 5-7%, thin moderately gossanized surface, trace pyrite	10			
155732		M48				Arkose recrystallized, pinkish gray, fine to medium grained, feldspar 60-70%, quartz 30-40%, biotite 3-5%, pyrite trace to 1%, weak thin surface gossan	320			
155733		M49				Arkose recrystallized, pinkish gray, fine grained, feldspar 60-70%, quartz 30-40%, biotite 5-7%, trace pyrite	2140 214	PPM		
155734		M50				Arkose recrystallized, pinkish gray, fine grained, massive, feldspar 65-75%, quartz 25-35%, trace pyrite, weak surface gossan	145			
155735		M51				Arkose recrystallized, medium grained, massive, pinkish gray + white, weak surface gossan, trace pyrite	95			
155736		M52				Arkose recrystallized, light pinkish gray, medium grained massive feldspar 50-60%, quartz 40-50%, biotite 1-3%, pyrite trace, strong surface gossan	400			

TRAVERSE NUMBER 8
N.T.S. 41 I 10PROJECT M^c Vittis
AREA _____GEOLOGIST(S) K Hannila
DATE _____

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, and/or AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Chip, Channel				An P P b	An P P M		
155737		M53				Arkose recrystallized, pinkish red and white, medium grained massive, Vuggy quartz rich (no carbonates), strong gossan pyrite trace to 1%	205			
155738		M54				Arkose recrystallized, pinkish gray, medium to coarse grained, massive Pyrite trace to 1%	575			
155739		M55				Arkose recrystallized, light yellowish gray, fine granular texture, feldspar 50-60%, quartz 40-50%, biotite 5-10%, trace pyrite, strong surface gossan, 2-3 mm thick	95			
155740		M56				Argillite Arkose recrystallized (Biotite - Qtz - Feld - Olivine) fine grained, segregated, banded no gossan, trace pyrite	15			
155741		M57				as for M56	<5			
155742		M58				Argillite recrystallized, sheared fine grained, schistose, chloritic trace pyrite, no surface gossan	5			
155743		M59				Quartz segregation 10 cm wide barren to trace sulphide	<5			

INCO-GOLD

TRAVERSE NUMBER 9
N.T.S. 41 I 10PROJECT McVittie
AREAGEOLOGIST(S) K. Hannila
DATE

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Chisel				Au P P b	Au P P M		
x 155744		M60				as for M59, part of same quartz segregation		110		
155745		M61				as for M59, part of same quartz segregation		5		
x 155746		M62				as for M59, part of same quartz segregation, slightly wider		50		
x 155747		M63				as for M59, part of same quartz segregation, slightly wider		10		
155748		M64				as for M59, part of same quartz segregation widened (to 1 metre at this sample)		55		
155749		M65				Argillite, dark greenish gray fine grained, well bedded moderately fissile Pyrite traces to 1%		215		
155750		M66				Quartz sweat, white with minor feldspar, strongly limonic trace pyrite		55		
x 155751		M67				Argillite/Arkose melange minerals are segregated dark green + pinkish gray trace pyrite		5		

INCO-GOLD

TRAVERSE NUMBER 10
N.T.S. 41 T 10PROJECT McVittie
AREA _____GEOLOGIST(S) K. Hannila
DATE _____

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)		
	RX Rock, Talus	SX Stream Silt, Soil	GRAB, SHIP, CHANNEL				Au	Au	P
155752		M68				Quartz sweat, 10x30 cm wide, 3 meters long, very weak gossan trace pyrite	35		P
155753		M69				as for M68	55		P
155754		M70				Arkose recrystallized, light yellowish gray, fine grained, moderate surface gossan, pyrite trace to 1%	40		
155755		M71				Arkose recrystallized, pinkish gray, fine grained, massive trace pyrite, moderate gossan	20		
155756		M72				Quartz segregation, same quartz segregation as M59	35		
155757		M73				Arkose recrystallized, finegrained dark pinkish gray + green chloritic blots, no gossan, pyrite nil to tr	5		
155758		M74				Arkose-Gabbro hybrid fine grained, dark greenish gray pyrite nil to trace	55		
155759		M75				Argillite, sheared It greenish gray, fine grained blotted, chloritic, pyrite nil to trace	55		

INCO GOLD

TRAVERSE NUMBER 11
N.T.S. 41 I 10PROJECT McVittie
AREAGEOLOGIST(S) K. Hannila
DATE

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Ship, Channel				An	An	P	P
155760		M76				Argillite - Gabbro melange dark green, pyrite nil to trace		55		b
155761		M77				Gabbro with Argillite inclusions dark green, pyrite nil to trace		55		p
155762		M78				Gabbro, dark green with arkose remnants, pyrite nil to trace		5		m
155763		M79				as for M78		55		
155764		M80				Quartz vein (swat) 1 to 5 cm's wide, 1 meter long barren		5		
155765		M81				Gabbro, dark green, medium grained pyrite nil to trace		55		
155766		M82				Gabbro, dark green, medium grained pyrite nil to trace		55		
155767		M83				Gabbro, dark green, medium grained, pyrite nil to trace		20		

INCO-GOLD

TRAVERSE NUMBER 12
N.T.S. 41 I 10PROJECT McVittie
AREA _____GEOLOGIST(S) K. Hannula
DATE _____

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, or AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Chip, Channel				An P b	An P M		
Site #3										
x155768	M84					Gabbro with remnant sediments pyrite <1%		30		
155769	M85					Quartz Vein, 3 to 5 cm wide pyrite <1%		55		
x155770	M86					Quartz vein in Gabbro irregular and discontinuous, pyrite <1%		55		
155771	M87					Gabbro with remnant arkose minor quartz veining, pyrite <1%		20		
155772	M88					Arkose recrystallized quartz veined 1-5cm's wide pyrite <1%		20		
155773	M89					Arkose/Gabbro melange quartz veined, pyrite <1%		40		
x155774	M90					Arkose recrystallized minor quartz veining, pyrite <1%		5		
155775	M91					Arkose recrystallized, very minor quartz veining, pyrite <1%		5		
155776	M92					Arkose recrystallized, bleached pyrite <1%, no quartz veining		55		

INCO GOLD

TRAVERSE NUMBER 13
N.T.S. 41 I 10PROJECT M^e Vittie
AREA GEOLOGIST(S) K Hannila
DATE

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Clip, Channel				Au P b	Au P M		
x 155777		M93				Arkose recrystallized, minor quartz veining, pyrite <1%		10		
x 155778		M94				Arkose recrystallized, weakly hematized, pyrite <1%		5		
x 155779		M95				as for M94 but displays minor quartz veining pyrite <1%		30		
155780		M96				Arkose recrystallized, minor quartz veining, pyrite <1%		35		
x 155781		M97				Arkose recrystallized, minor quartz veining, pyrite <1%		10		
x 155782		M98				Arkose recrystallized, 1cm quartz vein, pyrite 1%		5		
x 155783		M99				Arkose recrystallized, quartz veined, pyrite 1%		90		
: 155784		M100				Arkose recrystallized, minor quartz veining, pyrite <1%		10		
155785		M101				Argillite, minor quartz veining pyrite <1%		<5		
x 155786		M102				Arkose recrystallized, minor quartz veining, pyrite <1%		10		

TRAVERSE NUMBER 14
N.T.S. 41 I 10PROJECT M² Vittie
AREA _____GEOLOGIST(S) K. Hannila
DATE _____

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Drip, Channel				An	An	P	P
155787		M103				Arkose recrystallized, surface bleaching, minor quartz veining pyrite <1%		10		
155788		M104				Arkose recrystallized, slightly chloritic, pyrite <1%		5		
155789		M105				Arkose recrystallized, minor quartz veining, pyrite <1%		20		
155790		M106				Arkose recrystallized, slightly chloritic minor quartz veining, pyrite <1%		10		
155791		M107				Arkose recrystallized, minor quartz veining, pyrite <1%		5		
155792		M108				Quartz vein with 20% remnant arkose, pyrite <1%		10		
155793		M109				Arkose recrystallized, quartz veined, pyrite <1%		30		
155794		M110				Quartz vein, 5-7 cm wide pyrite <1%		10		
155795		M111				Arkose recrystallized, minor quartz veining, pyrite <1%		5		
155796		M112				Arkose recrystallized, quartz veined, pyrite <1%		10		

INCO-GOLD

TRAVERSE NUMBER 15
N.T.S. 41 E 10

PROJECT McVittie
AREA

GEOLOGIST(S) K. Hannila
DATE _____

TRAVERSE NUMBER GRID
N.T.S. 41-1-10

PROJECT McLennan
AREA MCLENNAN TWP #41-E-10

GEOLOGIST(S) J. Jok. KSC
DATE JUNE 7, 1989

SAMPLE NUMBER	SAMPLE TYPE		SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)					
	RX Rock, Talus	SX Sample soil Soil	Grab, Chip, Channel			(ppb)	Au	Pt	Pd	Cu	Ni
143779	Rock	JJ-1	Grab		fine GRAN, grey, massive, silica rich, trace pyrite ± 3/4 mm subhedral	5					
					ARKOSE						
143780	Rock	JJ-2	Grab		Same as previous, pyrite locally up to ± 1% euhedral ± 4 mm	<5					
143781	Rock	JJ-3	Grab		medium GRAN, grey green, plagioclase lathes subhedral to euhedral ± 2 mm twining striations Hornblende, long needle like ± 2 mm Pyroxene, stubby, ± 2 mm GRANITE	5					
143782	Rock	JJ-4	Grab		SAME AS 143781, slight coarser grain	5					
143783	Rock	JJ-5	Grab		SAME AS 143781, slight finer grain	<5					

TRAVERSE NUMBER GRID
N.T.S. 41-1-10

PROJECT McU, Hie
AREA MacLENNAN TWP.

GEOLOGIST(S) J. JACKSON
DATE June 7, 1989

SAMPLE NUMBER	SAMPLE TYPE		SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	ST Stream Silt, Soil				AU (ppb)			
143784	Rock	JJ-6	Grab		Green, fine grain, possible sericite giving green color, quartz + feldspathic(?) components Arkose	<5			
143785	Rock	JJ-7	Grab		Gabbro, same as 143781	<5			
143786	Rock	JJ-8	Grab		Gabbro, same as 143781	10			
143787	Rock	JJ-9	Grab		Coarse grain, pinkish, possibly a Na rich feldspar, considerable components of iron carbonate, minor quartz + plagioclase Sodium feldspar carbonate alteration rock	55			
143788	Rock	JJ-10	Grab		coarse grain, white/beige, quartz iron carbonate with Na rich(??) feldspar. Pyrite mineralization, anhedral to subhedral ± 1mm within carbonate and/or feldspar ± 1%	315			
					Sodium feldspar(??) carbonate, quartz alteration rock				

TRAVERSE NUMBER 6P.11
N.T.S. 41-10

PROJECT McUttie
AREA MASSEMAN TWP.

GEOLOGIST(S) JAY JACKSON
DATE JUN 7, 1989

TRAVERSE NUMBER GRID
N.T.S. 41-1-10

PROJECT McWitlie
AREA MACLENNAN TWP.

GEOLOGIST(S) J. JACKSON
DATE JUNE 8, 1989

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm / % / oz. per ton)				
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				AU (ppb)				
143790	Rock	JJ-12	Grab			GABBRO, AS 143781	<5				
143791	Rock	JJ-13	Grab			light grey with green "freckles", fine grain with felspathic component, quartz rich	<5				
143792	Rock	JJ-14	Grab			GABBRO, AS 143781, crystals are not as developed and finer grained, sulphide mineralization, trace pyrite	<5				
143793	Rock	JJ-15	Grab			Milky white, Quartz vein, medium grain with local surface iron staining	<5				
143794	Rock	JJ-16	Grab			fine grain, grey, massive silica rich	<5				

TRAVERSE NUMBER Grid
N.T.S. 41-1-10

PROJECT McVittie
AREA MACLENNAN Twp.

GEOLOGIST(S) J. JACKSON
DATE JUNE 8, 1989

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION	RESULTS (ppm / % / oz. per ton)					
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				AU (ppb)					
143795	Rock	JJ17	Grab			FINE GRAIN, PINKISH, QUARTZ RICH, STANNITE reveals minor K-rich feldspar ARCSOF (sheared)	<5					
143796	Rock	JJ18	Grab			FINE TO MEDIUM GRAIN, GREEN, GABBRO WITH QUARTZ, NA & MINOR K FELDSPAR MATERIALS (sample near contact w/ felsic dyke)	<5					
143797	Rock	JJ19	Grab			MEDIUM GRAIN, GREY BLACK AND PINK, GABBRO AS 143781 WITH A SIGNIFICANT NA/K FELDSPAR COMPONENT SULPHIDE MINERALIZATION, TRACE, VERY VERY FINE SPERS	<5					
143798	Rock	JJ20	Grab			GABBRO AS 143781 143781	<5					
143799	Rock	JJ21	Grab			GABBRO AS 143781, FINER GRAIN	10					

TRAVERSE NUMBER GRID
N.T.S. 41-1-10

PROJECT McVittie
AREA MacLeanwood Twp.

GEOLOGIST(S) J. JACKSON
DATE JUN 8, 1989

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm / % /oz. per ton)						
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				Au (ppb)						
1438004 143800	Rock	JJ22	Grab			ARKOSE AS 143795	<5						
1438002 155001	Rock	JJ23	Grab			ARKOSE AS 143795	<5						
1438003 155002	Rock	JJ24	Grab			ARKOSE AS 143795, trace sulphide	<5						
1438004 155003	Rock	JJ25	Grab			ARKOSE AS 143795	<5						
155004	Rock	JJ26	Grab			Green, fine grain, quartz rich Arkose	5						

TRAVERSE NUMBER 6RiD
N.T.S. 41-1-10

PROJECT McJ. Hig
AREA MACLENNAN Twp.

GEOLOGIST(S) J. JACKSON
DATE JUNE 8, 1989

SAMPLE NUMBER RX	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % /oz. per ton)				
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				Au (ppb)				
155005	Rock	JJ27	Grab			ARKOSE AS 143779	<5				
155006	Rock	SM1	Grab			FINE GRAIN, grey, quartz rich, massive weak , weak rock cleavage ARKOSE	<5				
155007	Rock	SM2	Grab			GABBRO, AS 143781	5				
155008	Rock	SM3	Grab			Fine to medium grain, grey green, GABBRO AS Previous, K/Mn Feldspar along fracture planes Pyrite, $\pm \frac{1}{4}$ mm, subhexagonal to euhedral, trace	25				
155009	Rock	SM4	Grab			ARKOSE AS 155006	10				

TRAVERSE NUMBER 6212
N.T.S. 41-1-10

PROJECT MCULHIG
AREA MACLENNAN TWP.

GEOLOGIST(S) J. JACKSON
DATE JUNE 8, 1989

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)						
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				AU (ppb)						
155010	Rock	Sm5	Grab			milky white, medium grain, quartz vein	<5						
155011	Rock	Sm6	Grab			Arkose AS 143779, pyrite ± 1%	5						
155012	Rock	Sm7	Grab			GABBRO (?) AS Previous, but has a much finer grain	<5						
155013	Rock	Sm8	Grab			white with green crystals, coarse grain ± 10mm Plagioclase (?) twinning, striations (?), NA Plagioclase Hornblende, Sulphide mineralization, pyrite?, trace to 1%	<5						
155014	Rock	Sm9	Grab			GABBRO AS 143781	5						

TRAVERSE NUMBER 6R10
N.T.S. 41-1-10

PROJECT M^cU, HIG
AREA MACLENNAN Twp.

GEOLOGIST(S) J. JACKSON
DATE JUNE 8, 1989

TRAVERSE NUMBER GRiD
N.T.S. ~~41-1-10~~

PROJECT McVittie
AREA MASLENNAW TWP.

GEOLOGIST(S) J. E. JACK
DATE June 13 189

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)				
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				Au (PPb)	Pt (PPM)	Pd (PPM)	Cu (PPM)	Ni (PPM)
155019	RX	JJ28	Grab			arkose Sheared gabbro - rusty, grey - fine to med grained, trace disseminated sulphides	<5			20	65
155020	RX	JJ29	Grab			Moderately sheared - very fine grained - <5 grey - moderately carbonized - gabbro arkose (near contact)				70	60
155021	RX	JJ30	Grab			Fine to med grained - grey - massive - <5 no visible sulphides present. - Gabbro				50	60
155022	RX	JJ31	Grab			Med grained - greenish grey - massive - no visible sulphides - Gabbro	5			80	55
155023	RX	JJ32	Grab			Fine grained - massive - grey - no visible sulphides - Arkose	<5			25	25
155024	RX	JJ33	Grab			Silicified arkose with gte vein - massive - fine grained - greenish	<5			5	30
155025	RX	JJ34	Grab			Pinkish - trace sulphide (pyrite) - fine grained - silicified - Silicified arkose	15			25	10
155026	RX	JJ35	Grab			- Pinkish rusty, fine grained silicified, trace weathered sulphide's, massive, thin fracturing thru rock - silicified arkose	20			5	40

TRAVERSE NUMBER 6R10
N.T.S. 41:1:10

PROJECT McCittie
AREA MacLeanwood Twp.

GEOLOGIST(S) J.E. Jackson
DATE June 14/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)				
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				Au (PPb)	Pt	Pd	Cu (PPM)	Ni (PPM)
155027	RX	JJ36	Grab			Fine grained, light gray, moderately shoured or pediated, -arkose	20			10 25	
155028	RX	JJ37	Grab			Fine grained, massive, dark grey, trace sulphides, Fe carb. nodules/stringers -Arkose	30			10 110	
155029	RX	JJ38	Grab			Silicified arkose, light grey, fine grained, trace sulphides, massive	25			15 60	
155030	RX	JJ39	Grab			Silicified arkose arkose with qtz. veining, trace -1% sulphides, fine grained, massive, pinkish to light gray	25			25 45	
155031	RX	JJ40	Grab			Fine to med. grained gabbro, massive, dark gray	25			110 55	
155032	RX	JJ41	Grab			Arkose, fine grained, dark gray massive	25			15 35	
155033	RX	JJ42	Grab			Gabbro, dark grey, trace sulphides, massive, fine to med grained	15			145 75	
155034	RX	JJ43	Grab			Gabbro fine to med grained, silicified in parts, dark to light gray	5			75 35	

TRAVERSE NUMBER Grid
N.T.S. 41-1-10

PROJECT McVittie
AREA Macleanan Twp.

GEOLOGIST(S) J. E. Jackson
DATE June 19/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)						
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				Au (ppb)	Pt	Pd	Cu (ppm)	Ni (ppm)	Others	Others
155035	RX	JJ44	Grab			Gabbro fine to med grained, massive, dark gray. Matrix for Sudbury Bx (?)	<5			75	80		
155036	RX	JJ45	Grab			Gray wacke very fine grained, trace sulphide, massive, dark gray	<5			25	55		
155037	RX	JJ46	Grab			Arkose, pinkish & dark gray, massive, fine grained	<5			10	25		
155038	RX	JJ47	Grab			Same as 155035 except med grained	<5			50	50		
155039	RX	JJ48	Grab			Same as 155035	<5			215	105		
155040	RX	JJ48A	Grab			Fine grained arkose, trace sulphide, massive, dark gray	<5			5	20		
155041	RX	JJ49	Grab			Same as above	<5			5	20		
155042	RX	JJ50	Grab			Fine grained arkose, dark gray, massive, trace sulphides	5			10	15		
155043	RX	JJ51	Grab			Q + z. vein, light gray to white, vuggy	5			5	10		
155044	RX	JJ52	Grab			Light gray, fine grained, arkose, massive	<5			10	15		
155045	RX	JJ53	Grab			Same as above	<5			5	20		

TRAVERSE NUMBER Grid
N.T.S. 41-1-10

PROJECT McVittie
AREA MACLENNAN TWP.

GEOLOGIST(S) J.E. Jackman
DATE June 14/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm / % / oz. per ton)				
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				Ag	Pt	Pd	Cu	Ni
155046	RX	JJ54	Grab			Altered arkose(?) - fine grained - Pink, massive -	<5			10	20
155047	RX	JJ55	Grab			Same as above	<5			5	15
155048	RX	JJ56	Grab			Silicified arkose - light gray to pink, fine grained, massive	<5			<5	15
155049	RX	JJ57	Grab			Qtz vein - white - fine carb stringers - trace sulphide	<5				
155050	RX	JJ58	Grab			Quartzite with some qtz. veining - fine grained - massive - trace to 1% sulphide - pinkish to light gray	<5				
155051	RX	JJ59	Grab			Arkose - dark gray, fine grained - trace sulphide, massive	<5			15	20
155052	RX	JJ60	Grab			Pinkish gray arkose, fine grained, moderately sheared?	<5			5	25
155053	RX	JJ61	Grab			As above	<5			<5	15
155054	RX	JJ62	Grab			Arkose - dark gray - fine grained - trace sulphide - massive	<5			5	20
155055	RX	JJ63	Grab			Med. grained gabbro - dark grey - massive - trace sulphide	<5			55	70

TRAVERSE NUMBER 6721D
N.T.S. 41-1-10

PROJECT McVittie
AREA Maslenkaud Twp.

GEOLOGIST(S) J. E. JACKSON
DATE June 14/89

TRAVERSE NUMBER GRID
N.T.S. 41-I-10

PROJECT MOVITIE
AREA MACLENNAN TWP.

GEOLOGIST(S) J. E. Jackson
DATE JUNE 13/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, and/or U.T.M. AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)				
	RX Rock, Talus	SX Stream Silt, Soil	Grab, Chip, Channel				Au (PPB)	Pt	Pd	Cu (PPM)	Ni (PPM)
RX155058	SM-14	GRAB				FINE GRAINED, DARK GREY GABBRO MASSIVE TEXTURE, NO VISIBLE SULPHIDE	15			25	50
59	SM-15	GRAB				FINE GRAINED, GREENISH GREY ROCK FROM SILICIFIED(?) VEIN WITHIN GABBRO ABOVE. CALCITE PRESENT 1-2% SULPHIDE VENEER. SOME FE-CAPS IN CARB	35			395	60
62	SM-18	GRAB				FINE GRAINED GABBRO, AS SM-14	15			50	60
60	SM-16	GRAB				FINE GRAINED QUARTZITE, TRACE SULPHIDE OR ARKOSE	15			35	25
61	SM-17	GRAB				FINE GRAINED, GREY TO DARK GREEN SILICIFIED SHEAR ZONE MATERIAL NO SULPHIDE TRACE MINERALIZATION.	5			130	75
	SM-18	GRAB				FINE GRAINED GABBRO, MASSIVE, NO SULPHIDE					
63	SM-19	GRAB				ARKOSE, FINE TO MEDIUM GRAINED, YELLOW STAINING (KSPAR?) APPEARING IN SMALL FRACTURES.	15			10	15
64	SM-20	GRAB				SHEAR ZONE IN QUARTZITE, WITH SOME CARBONATE, TRACE TO 1% SULPHIDE	15			15	50
65	SM-21	GRAB				ARKOSE, FINE TO MEDIUM GRAINED, TRACE SULPHIDE, GREY	15			5	20
66	SM-22	GRAB				FINE GRAINED, DARK GREY ARKOSE NO MINERALIZATION	15			20	35
67	SM-23	GRAB				FINE GRAINED MASSIVE GABBRO, NEAR CONTACT WITH ARKOSE (SM 22) NO MINERALIZATION	15			80	60

TRAVERSE NUMBER 621D
N.T.S. 41-2-10

PROJECT MCVITIE
AREA MCGLENNAN TWP.

GEOLOGIST(S) J. E. Johnson
DATE JUNE 14/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)				
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Chip, Channel				Au (ppb)	Pt	Pd	Cu (ppm)	Ni (ppm)
68	SM24	GRAB				FINE TO MED. GRAINED ARKOSITE, TRACE PYRITE	<5			10	25
69	SM25	GRAB				MED. GRAINED QUARTZITE LIGHT TO MODERATE GREY, ONE SPECK OF SULPHIDE	<5			<5	10
70	SM26	GRAB				FINE GRAINED, DARK GREY ARKOSITE, NEAR CONTACT WITH GABBRO (SM 27)	<5			30	25
71	SM27	GRAB				FINE GRAINED GABBRO, NEAR CONTACT WITH ARKOSITE (SM26).	5			55	50
72	SM28	GRAB				FINE TO MED GRAINED GABBRO, MASSIVE, <5 NEAR GABBRO - QUARTZITE(ARKOSITE) CONTACT	<5			75	80
73	SM-29	GRAB				VERY FINE GRAINED ARKOSITE FROM SHEAR ZONE AT CONTACT BETWEEN ARKOSITE AND GABBRO. DARK GREY 1-2% BLEBBY SULPHIDE(PYRITE); SILICIFIED	<5			35	60
74	SM-30	GRAB				DARK GREY, FINE GRAINED ARKOSITE NO VISIBLE MINERALIZATION	<5			5	20
75	SM-31	GRAB				QTZ VEIN FOUND IN QUARTZITE(ARKOSITE) GREEN CHROME MICA FLAKES SCATTERED THROUGHOUT. ONE GRAIN (2 mm) OF WEATHERED SULPHIDE	<5			10	10
76	SM-32	GRAB				FINE TO MED GRAINED GABBRO; NO VISIBLE MINERALIZATION	<5			90	80
77	SM-33	GRAB				FINE GRAINED ARKOSITE, NO MINERALIZATION	<5			<5	15
78	SM-34	GRAB				1 cm WIDE QTZ VN IN QUARTZITE VN SLIGHTLY VUGGY No MINERALIZATION	<5			10	20

TRAVERSE NUMBER GRID
N.T.S. 41-I-10

PROJECT McVITTIE
AREA MACLENNAN TWP.

GEOLOGIST(S) J.E. Jackson
DATE JUNE 14/99

INCO GOLD

TRAVERSE NUMBER GRID
N.T.S. 41-I-10PROJECT MCUTTIE
AREA MACLENNAN TWP.GEOLOGIST(S) J.E. JACKSON
DATE JUNE 19/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, and / or AREA	LATITUDE, LONGITUDE and / or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton)				
	RX Rock, Talus	SX Stream Sed., Soil	Grab, Chip, Channel				Pt	Pt	Pd	Cu	Ni
RX155082	JJ-65	CHIP				QUARTZ POD, 33 CM WIDE, MILKY WHITE NO VISIBLE MINERALIZATION			10		
RX155083	JJ-66	GRAB				QTZ - FELDSPAR, VERY RUSTY AND VERY VUGGY COARSE GRAINED, ALTERED ARKOSIC?			10		
RX155084	JJ-67	CHIP				0.5 CHIP COARSE GRAINED, QUARTZ-FELDSPAR BX. ZONE, EXTENSIVE MILKY QUARTZ PINK FELDSPAR (ALTERATION?) 1-2%. FINE TO MED. GRAINED EUHEDRAL TO SUBHEDRAL PYRITE. (NO METASOMATISM?)					
RX155085	JJ-68	CHIP				VERY FINE GRAINED DARK GREY TO BROWN, BANDED (CHERRY) 1% BX. 27 CM CHIP MATRIX DOMINATED, FEW FRAGMENTS. AREA IS BXD. WITH VUGGY QTZ HEALED MATRIX			5		
RX155086	JJ-69	CHIP				SAME AS JJ-67			<5		
RX155087	JJ-70	CHIP				SAME AS JJ-67 ONLY LESS PYRITE			<5		
RX155088	JJ-71	CHIP				SAME AS JJ-70			<5		
RX155089	JJ-72	CHIP				SAME AS JJ-70, ONLY LESS QTZ (MOSTLY GREY, PINK)			5		
RX155090	JJ-73	CHIP				SAME AS JJ-67 (TRACE PYRITE)			5		

TRAVERSE NUMBER GRID
N.T.S. A1 F10

PROJECT MCVITTE
AREA MACLENNAN TWP.

GEOLOGIST(S) J.E.JACKSON
DATE JUNE 21/89

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. /% /oz. per ton)			
	RX Rock, Talus	SX Stream Silt, Soil	Grob, Chip, Channel				As (PPb)			
RX155091	JJ-74	CHIP				Qtz vein, coarse grained, some carbonate, 0.5 metre chip No mineralization	<5			
RX155092	JJ-75	GRAB				ALTERED GABBRO, PINKISH-GREY, WITH TRACE SULPHIDE	<5			
RX155093	JJ-76	CHIP	0.5m			Qtz vein, 0.5 m. chip NO VISIBLE MINERALIZATION	<5			
RX155094	JJ-77	GRAB				ALTERED GABBRO, LIGHT TO MEDIUM GREY FINE TO MED. GRAINED, TRACE SULPHIDE	<5			
RX-155095	ROCK	JJ-80	GRAB			V.F. grey, mass, lt greenish-gray, CALCAREOUS SILSTONE.	<5			
RX-155096	ROCK	JJ-81	GRAB			Cgrey, gray, massive, salty pepper TEXTURED GABBRO.	<5			
RX-155097	ROCK	JJ-82	GRAB			F.g., lt. GREENISH-GRAY, WEAKLY BANDED, CALCAREOUS, LIMESTONE.	<5			
RX-155098	ROCK	JJ-83	GRAB			F.g., lt. GREENISH-GRAY, MASS, CALCAREOUS SILSTONE?	<5			
RX-155099	ROCK	JJ-84	GRAB			AS TO TO RX-155098	<5			

APPENDIX 2

Specifications of Geophysical Instruments

OMNI IV "Tie-Line" Magnetometer

EDA

Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	± 15% relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	1,200 data blocks or sets of readings
Total Field or Gradient	100 data blocks or sets of readings
Tie-Line Points	5,000 data blocks or sets of readings
Base Station	
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to +55°C; 0-100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor (0.5m separation-standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor (1.0m separation-optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Gradiometer Option	Standard system plus 0.5 meter sensor

EDA Instruments Inc.
4 Thorncliffe Park Drive
Toronto, Ontario
Canada M4H 1H1
Telex: 06 23222 EDA TOR
Cable: Instruments Toronto
(416) 425 7800

In U.S.A.
EDA Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
(303) 422 9112

Printed in Canada



GEONICS LIMITED

2 Thorncliffe Park Drive, Toronto 17, Ontario, Canada. Tel. (416) 425-1821, Cables: Geonics

EM16

VLF ELECTROMAGNETIC UNIT

Pioneered exclusively by Geonics Limited the VLF-method of electromagnetic surveying by utilization of the uniform horizontal fields generated by an existing network of reliable, fully operational Very Low Frequency transmitting stations has proved to be a major advance in geophysical exploration.

Very extensive world-wide experience since the beginning of 1965 by a large and rapidly increasing number of users, including a high proportion of major mining and exploration companies, has provided conclusive evidence of the effectiveness of the technique and the EM 16 has gained general acceptance as a basic electromagnetic tool. This evidence has also indicated the response of disseminated bodies, to the VLF-method.

The unique self-contained EM 16 offers the unrivalled combination of LIGHT WEIGHT, ONE-MAN OPERATION and DEEP PENETRATION allowing rapid, economical surveys. Assessing the data is simplified due to the use of the uniform horizontal primary field. The patented design feature of the measurement of both the in-phase and out-of-phase (quadrature) component of the vertical field provides the information necessary for comprehensive interpretation of the field results.



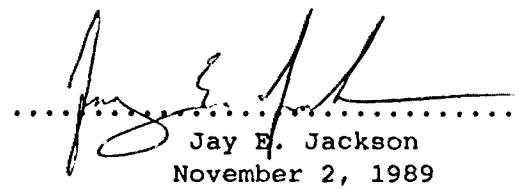
SPECIFICATIONS

Source of primary field:	VLF transmitting stations.	Scale range:	In-phase \pm 150%; Out-of-phase \pm 40%.
Transmitting stations used:	Any desired station frequency supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.	Readability:	\pm 1%
Operating frequency range:	About 15 – 25 kHz	Reading time:	10 – 40 seconds depending on signal strength.
Parameters measured:	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid). (2) The vertical out-of-phase (quadrature) component the short axis of the polarization ellipsoid compared to the long axis.	Operating temperature range:	-40 to 50°C
Method of reading:	In-phase from a mechanical inclinometer; out-of-phase from a calibrated dial. Nulling by audio tone.	Power Supply:	6 size AA (penlight) alkaline cells. Life about 200 hours.
		Dimensions:	16 x 5.5 x 3.5 in (42 x 14 x 9 cm)
		Weight:	2.5 lbs (1.1 kg)
		Instrument supplied with:	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional frequencies are optional), set of batteries.
		Shipping weight:	10 lbs (4.5 kg)

CERTIFICATE OF QUALIFICATIONS

I, Jay E. Jackson of 354 Wembley Drive, Sudbury, Ontario certify that:

1. I am a 1987 graduate of Laurentian University with an Honours Bachelor of Science Degree in Geology.
2. I have practiced my profession in Ontario continuously since graduation from university.
4. I am currently employed as a Geologist by Inco Exploration and Technical Services, Inc.



Jay E. Jackson
November 2, 1989

Qual. this report



Ministry of
Northern Development
and Mines

Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

DOCUMENT

W8907- (



41110NW0027 2.12866 MACLENNAN

900

8709-0915

Mining A

Type of Survey(s)

Geological and Geophysical (Mag & EM)

Claim Holder(s)

Inco Limited

Address

c/o Inco Exploration and Technical Services, Inc. Hwy 17W. Copper Cliff, Ont. POM1NO

Survey Company

Inco Exploration and Technical Services, Inc.

Date of Survey (from & to)

Total Miles of line Cut

Name and Address of Author (of Geo-Technical report)

J. Jackson/E.K. Berrer c/o Inco Expl. & Tech. Services, Inc. Copper Cliff, Ont. POM 1NO

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures	\$	÷	15	=	Total Days Credits
--------------------	----	---	----	---	--------------------

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date

Sept. 11, 1989

Recorded Holder or Agent (Signature)

D. McCaskill

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Ian McCaskill c/o Inco Exploration and Technical Services, Inc.

Date Certified

Certified by (Signature)

2.12866

MacLennan

Prospector's Licence No.

A-19231

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
S	994014				
	994015				
	994016				
	1076202				
	1076203				
	1076204				
	1076205				
	1076206				
	1076207				
ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE					
FEB 5 1980					
RECEIVED					
SUDBURY MINING DIV.					
RECEIVED					
SEP 13 1989					
A.M. P.M.					
7 8 9 10 11 12 1 2 3 4 5 6					
1:45 P.M.					
RECEIVED					
MINE LADS SECTION					

Total number of mining claims covered by this report of work.

9

For Office Use Only	
Total Days Cr. Recorded	Date Recorded
Sept. 15 1989	
110	110
Date Approved by Recorder	
2 Feb 90	
Branch Director	<i>McCaskill</i>

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Ian McCaskill c/o Inco Exploration and Technical Services, Inc.

Date Certified

Certified by (Signature)

RECEIVED

November 8, 1989

NOV 9 1989

MINING LANDS SECTION

Ministry of Northern Development
and Mines
Mining Lands Section
Mineral Development and Lands Branch
880 Bay Street, 3rd. Floor
Toronto, Ontario
M5S 1Z8

Attention: W. R. Cowan, Provincial Manager

Dear Sir:

2.12866

Re: McVittie Project; NTS: 41-I-10.43

Enclosed is a geological and geophysical (mag and EM) report in duplicate being submitted as assessment work on the following claims located in MacLennan Township, Sudbury Mining Division.

S994014 - 016 inclusive
S1076202 - 207 inclusive

The report of work covering this submission was forwarded to the Mining Recorder in Sudbury and subsequently recorded on September 15, 1989.

I trust this will be considered satisfactory.

Yours truly,



for:
W. V. Rodney
Senior Landman

IDM/mcb

Enclosure:

INCO EXPLORATION AND TECHNICAL SERVICES INC.

Field Exploration Office
Highway 17 West, Copper Cliff, Ontario P0M 1N0 • (705) 682-8451



Ministry of
Northern Development
and Mines

Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

DOCUMENT No.

W8907-095

Instructions: - Please type or print.

- If number of mining claims traversed exceeds space on this form, attach a list.

Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

- Do not use shaded areas below.

Mining Act

Type of Survey(s)

Geological and Geophysical (Mag & EM)

Township or Area

MacLennan

Claim Holder(s)

Inco Limited

Prospector's Licence No.

A-19231

Address

c/o Inco Exploration and Technical Services, Inc. Hwy 17W. Copper Cliff, Ont. P0M1NO

Survey Company

Date of Survey (from & to)

Total Miles of line Cut

07 Aug 1989 - 06 Nov 1989

19.2 km

Name and Address of Author (of Geo-Technical report)

J. Jackson/E.K. Berrer c/o Inco Expl. & Tech. Services, Inc. Copper Cliff, Ont. P0M 1NO

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures Total Days Credits

\$ ÷ 15 =

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work.

9

For Office Use Only	
Total Days Cr.	Date Recorded
Recorded	Sept 15/89
110	Date Approved as Recorded
	Branch Director

Date

Sept. 11, 1989

Recorder Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.



Ministry of
Northern Development
and Mines

Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

DOCUMENT No.

W8907-095

Mining Act

Nov. 24, 1989

Instructions: — Please type or print.

— If number of mining claims traversed exceeds space on this form, attach a list.

Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

— Do not use shaded areas below.

Type of Survey(s)

Geological and Geophysical (Mag & EM)

Township or Area

MacLennan

Claim Holder(s)

Inco Limited

Prospector's Licence No.

A-19231

Address

c/o Inco Exploration and Technical Services, Inc. Hwy 17W. Copper Cliff, Ont. P0M1NO

Survey Company

Inco Exploration and Technical Services, Inc.

Date of Survey (from & to)

07 | 06 | 89 | 06 | 09 | 89

Total Miles of line Cut

19.2 km

Name and Address of Author (of Geo-Technical report)

J. Jackson/E.K. Berrer c/o Inco Expl. & Tech. Services, Inc. Copper Cliff, Ont. P0M 1NO

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	(20)
	- Magnetometer	40
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures	\$	÷	15	=	Total Days Credits
--------------------	----	---	----	---	--------------------

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work.

9

Date

Sept. 11, 1989

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

For Office Use Only	
Total Days Cr.	Date Recorded
Recorded	Sept. 15/89
110	Date Approved as Recorded

MINING RECORDER	110
Branch Director	110



Ministry of
Northern Development
and Mines

Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

DOCUMENT No.

W8907-095

Mining Act

Instructions: -- Please type or print.

-- If number of mining claims traversed exceeds space on this form, attach a list.

Note: -- Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

-- Do not use shaded areas below.

Nov 04 1989

Type of Survey(s)

Geological and Geophysical (Mag & EM)

Claim Holder(s)

Inco Limited

Address

c/o Inco Exploration and Technical Services, Inc. Hwy 17W. Copper Cliff, Ont. POM1NO

Survey Company

Inco Exploration and Technical Services, Inc.

Date of Survey (from & to)

Total Miles of line Cut

07 Day Mo. 89 06 Day Mo. 89

19.2 km

Name and Address of Author (of Geo-Technical report)

J. Jackson/E.K. Berrer c/o Inco Expl. & Tech. Services, Inc. Copper Cliff, Ont. POM 1NO

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures		Total Days Credits
\$	÷ 15	=

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date

Sept. 11, 1989

Recorded Holder or Agent (Signature)

RECEIVED

SUDSBURY
MINING DIV

Sept 13 1989	
A.M. 7 8 9 10 11 12 1	P.M. 2 3 4 5 6
1:45 P.M.	

Total number of mining claims covered by this report of work.

9

For Office Use Only

Total Days Cr. Date Recorded Recorded	Sept 15 1989	Date Approved as Recorded Branch Director
--	--------------	--

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

MACLENNAN TWP.

RE-AUTHORIZED APRIL 17, 1984

AREAS WITHDRAWN FROM DISPOSITION

MHO - Mining Rights Only

BHO - Surface Rights Only

M+H - Mining and Surface Rights

Description	Date No.	Date	Disposition	File No.
MHO 45/10	W 1/10	1/1/79	M.R.M.	100348
BHO 45/10	W 1/10	1/1/79	M.R.D.	44114
BHO 45/10	W 1/10	1/1/79	M.R.O.	100378
BHO 45/10	W 1/10	1/1/79	M.R.O.	100369
REC 45/10	W 1/10	1/1/79	M.R.O.	100354
REC 45/10	W 1/10	1/1/79	M.R.S.	100354
REC 45/10	W 1/10	1/1/79	TOD 90 VOL 1	
(LAND AND LAND UNDER THE WATER OF WANAPITEI LAKE)				

Ministry of
Northern Development
and Mines
Ontario
TAXONOMY

INDEX TO LAND DISPOSITION

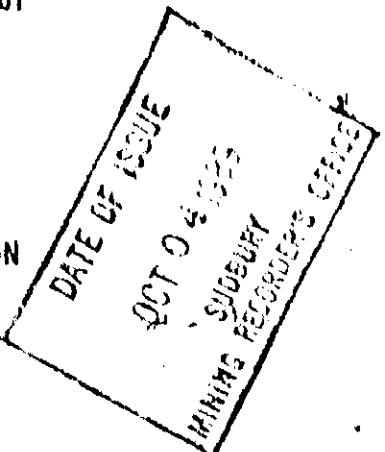
PLAN

G-4078

TOWNSHIP

MACLENNAN

M.N.R. ADMINISTRATIVE DISTRICT
SUDSBURY
MINING DIVISION
SUDSBURY
LAND TITLES/REGISTRY DIVISION
SUDSBURY



Scale 1:20 000
Miles
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Miles
Feet
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet
Contour interval 10 Metres

Map bears land disposition drafting by Surveys and Mapping
Branch, Ministry of Natural Resources.The disposition of land, location of lot lines and parcel boundaries on
this index was compiled for administrative purposes only.

SYMBOLS

Boundary	Township, Meridian, Townshipline.....
Road allowance; surveyed.....	shoreline.....
Lot/Concession; surveyed.....	unsurveyed.....
Parcel; surveyed.....	unsurveyed.....
Right-of-way; road.....	railway.....
Utility.....	utility.....
Reservation.....	Cliff, Pit, Pile.....
Contour.....	Contour point (landmark).....
Interpolated.....	Flooded land.....
Approximate.....	Mine head frame.....
Dupression.....	Pipeline (above ground).....
Control point (landmark).....	Railway; single track.....
.....	double track.....
.....	abandoned.....
.....	Road; highway, county, township.....
.....	access.....
.....	trail, bush.....
.....	Watercourse (original).....
.....	Transmission line.....
.....	Wooded area.....

DISPOSITION OF CROWN LANDS

Patent

Surface & Mining Rights

Gullacu Rights Only

Mining Rights Only

Loose

Surface & Mining Rights

Surface Rights Only

Mining Rights Only

Licence of Occupation

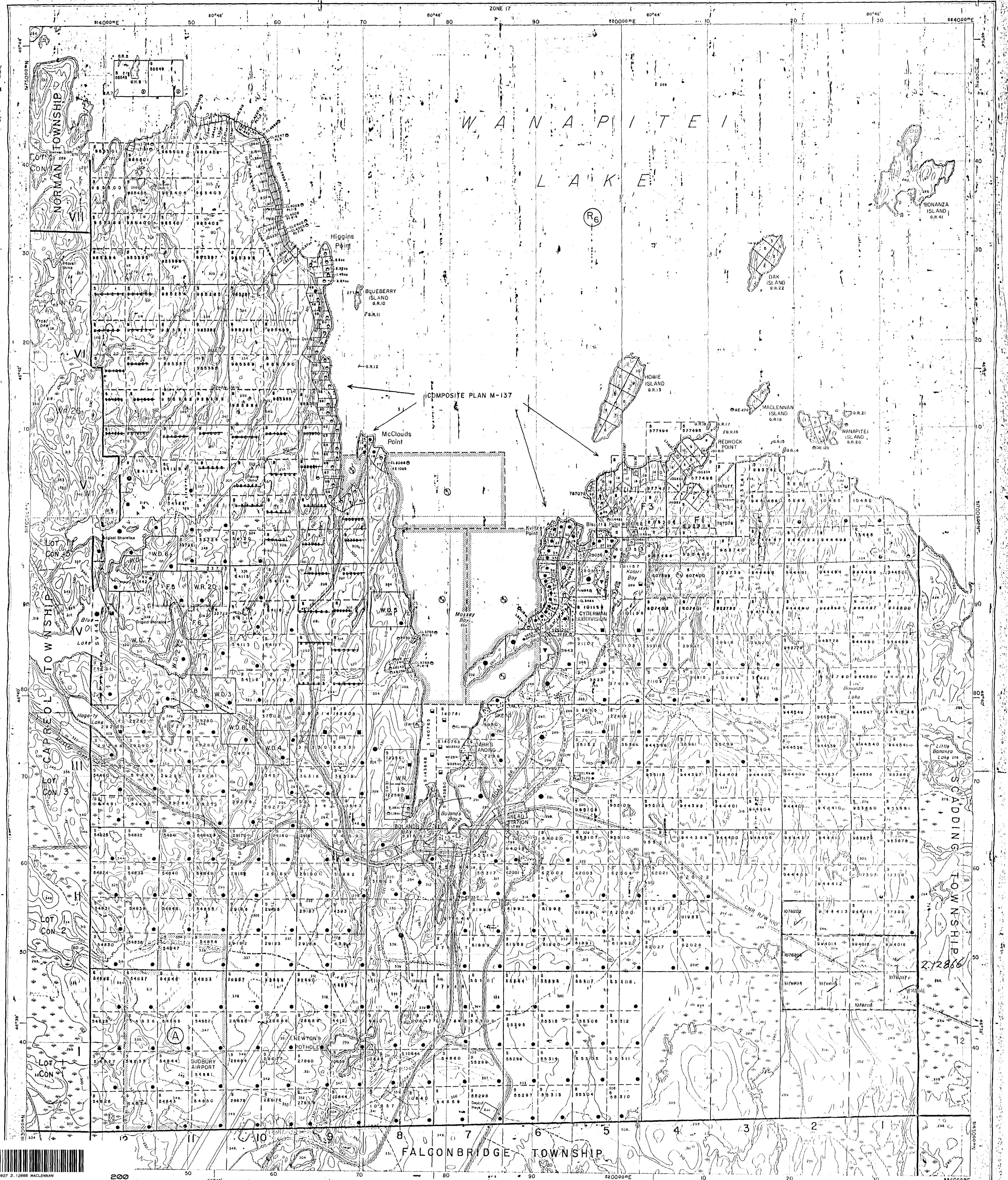
Order-in-Council.....

Unclaimed.....

Reservation.....

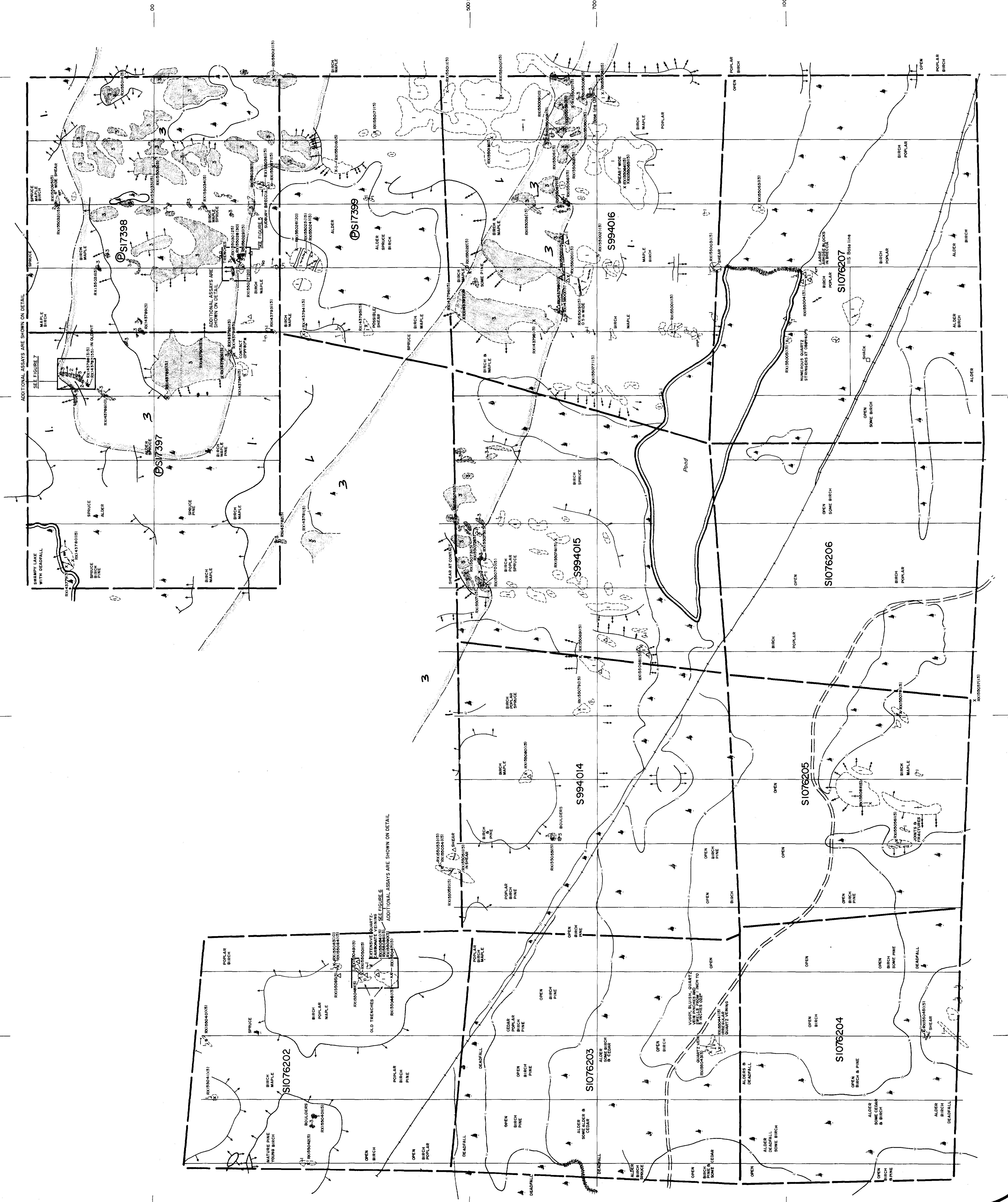
Sand & Gravel.....

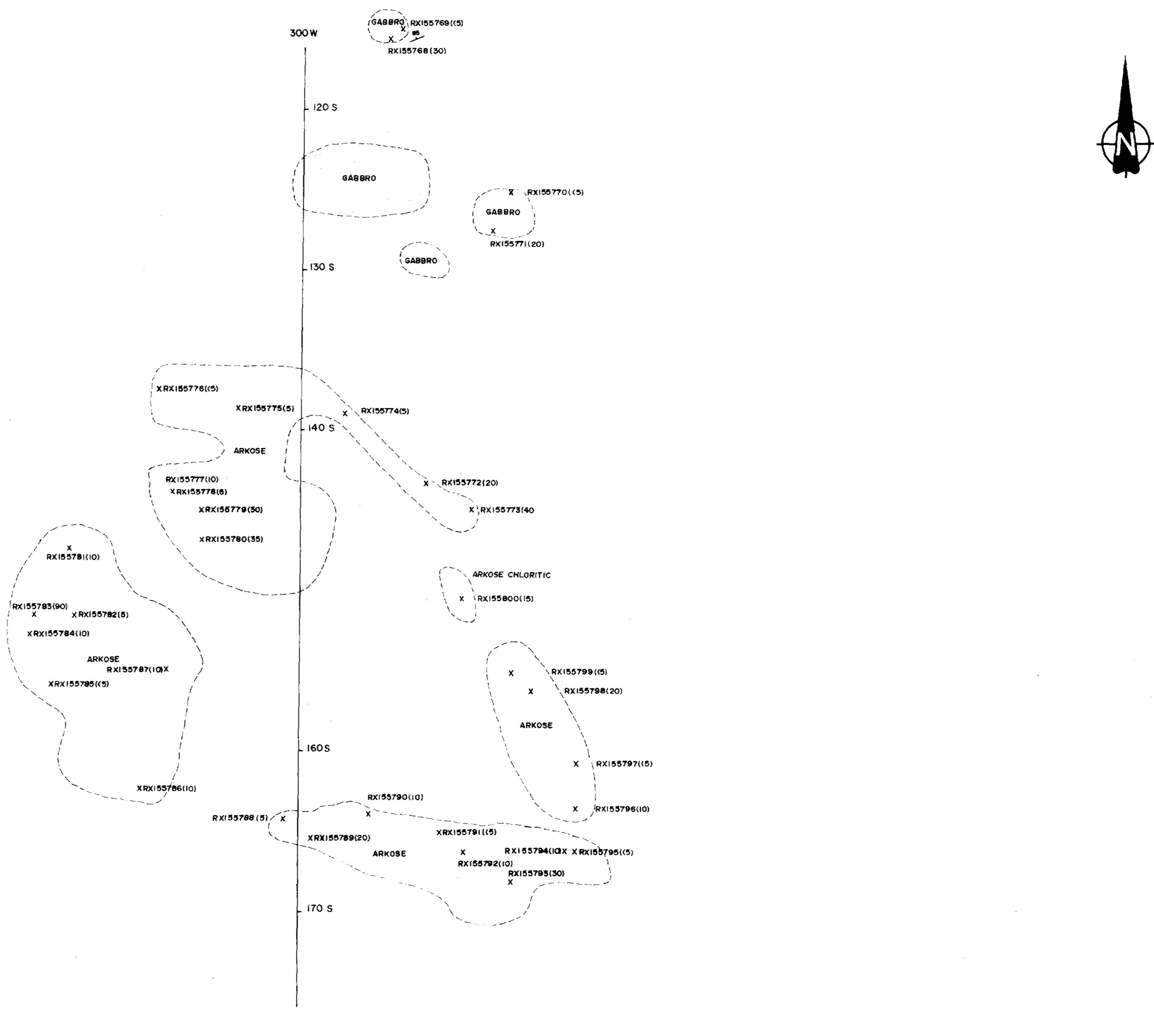
NOTES
RESERVE FLOORING RIGHTS ALONG THE BORNE OF WANAPITEI LAKE AND ISLANDS
THEREIN TO THE ELEVATION OF CREST OF DAM AT OUTLET OF LAKE. FILE #100348

ISLANDS IN WANAPITEI LAKE WITHDRAWN FROM STAKING SEC. 38 (C) OF MINING ACT
(EN.B.O.1970)ALL MINING CLAIMS IN AREA SHOWN THUS: (D) ARE WITHDRAWN FROM STAKING
IN CASE OF CANALIZATION SUB.(D) REG.39 OF THE MINING ACT. FILE #100348

INCO GOLD
INCO GOLD COMPANY, A UNIT OF INCO LIMITED
Project McTITIE OPTION

McTITIE, ONTARIO
Survey date: JUNE 1989
Instrument: Total Station
Compt'd by: JACKSON
Drawn by: B. HALBERT
Scale: 1:2500
Sheet: 1
Figure: 4
Area: MCLENNAN TWP
Rev'd: 4/17/10





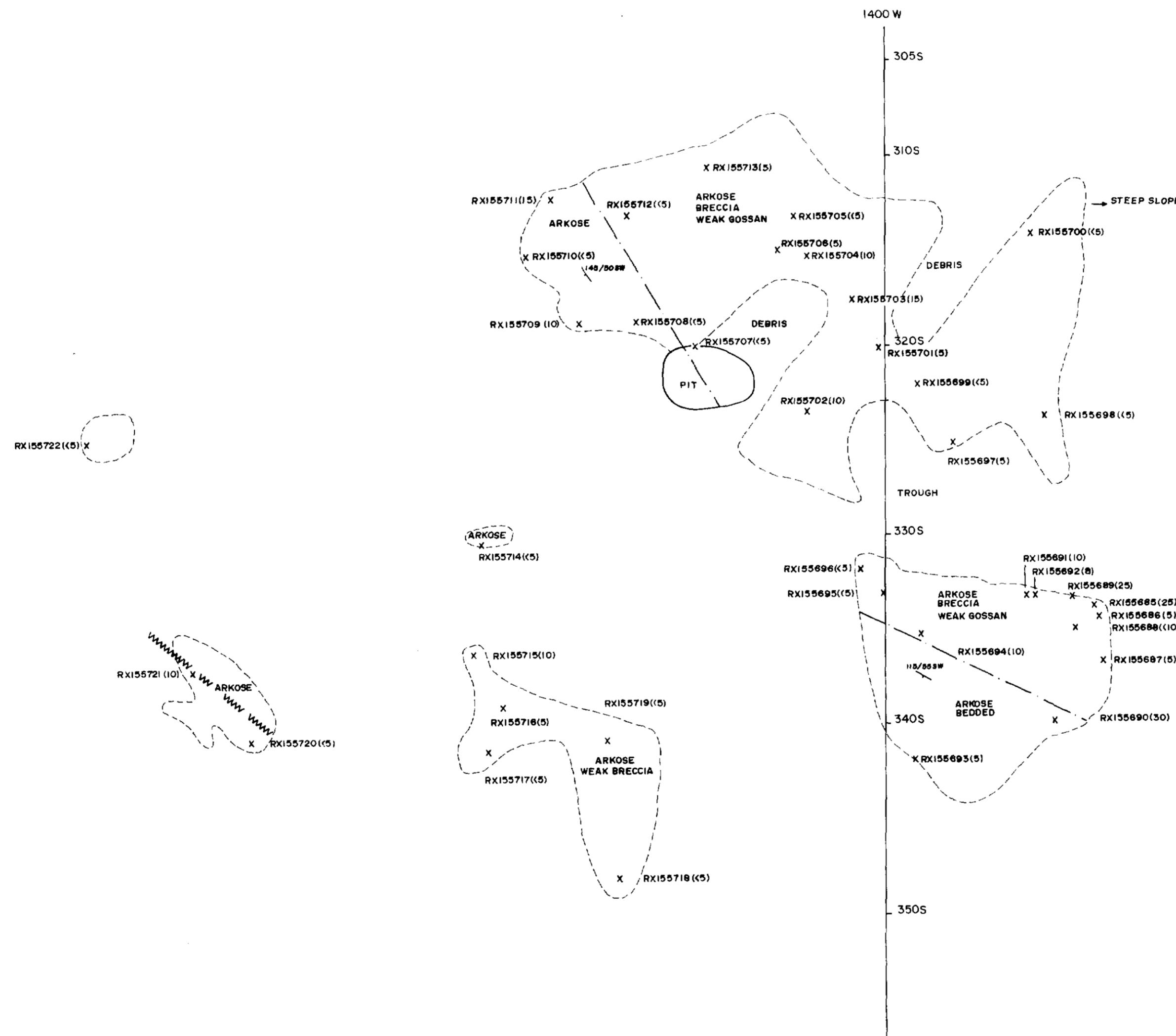
0 4 8m

INCO GOLD 2.12866 Copper Cliff, Ontario
INCO GOLD COMPANY, A UNIT OF INCO LIMITED

Project: McVITTIE OPTION	Area: MacLENNAN TWP.	SHEET 1	FIGURE 5
DETAIL GEOLOGY - 300W SECTION			
Supervisor: J. PERRY	Instrument:	Survey date:	
Compiled by: K. HANNILA	Drawn by: B. HALBERT	Date drawn: OCT. 1989	Revised:
Scale: 1:200	File:	N.T.S. 41 1 NO	



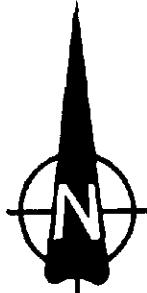
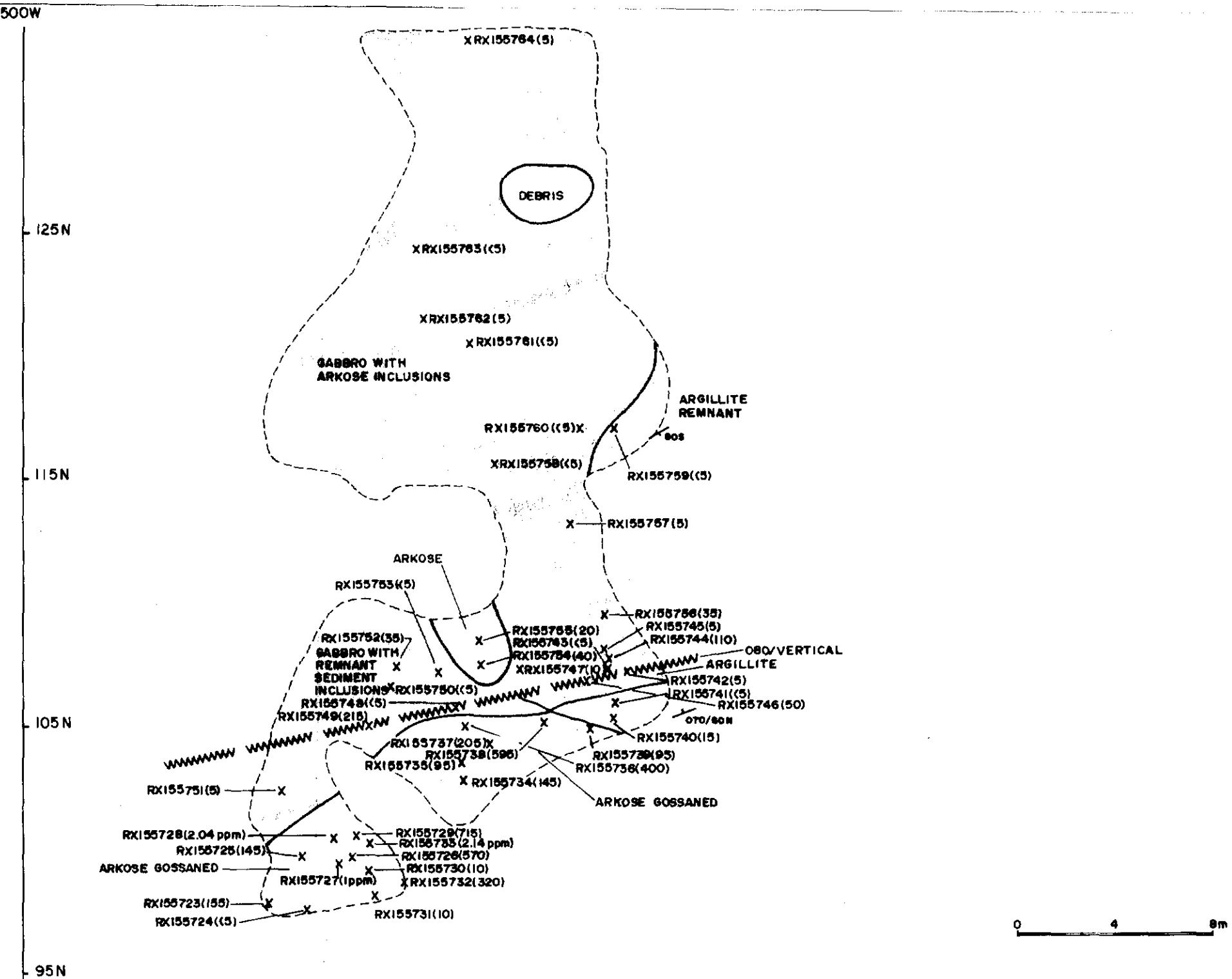
41110N0027 2.12866 MACLENNAN



INCO GOLD 2.12866		Copper Cliff, Ontario
INCO GOLD COMPANY, A UNIT OF INCO LIMITED		
Project: McVITTIE OPTION		Area: MacLENNAN TWP.
SHEET	FIGURE	
DETAIL GEOLOGY - 1400W SECTION		1 6
Supervisor: J. PERRY	Instrument:	Survey date:
Compiled by: K. HANNILA	Drawn by: B. HALBERT	Date drawn: OCT. 1989 Revised:
Scale: 1:200	File:	N.T.S. 41 1 10



41110.W0027 2.12866 MACLENNAN



INCO GOLD 2.12866

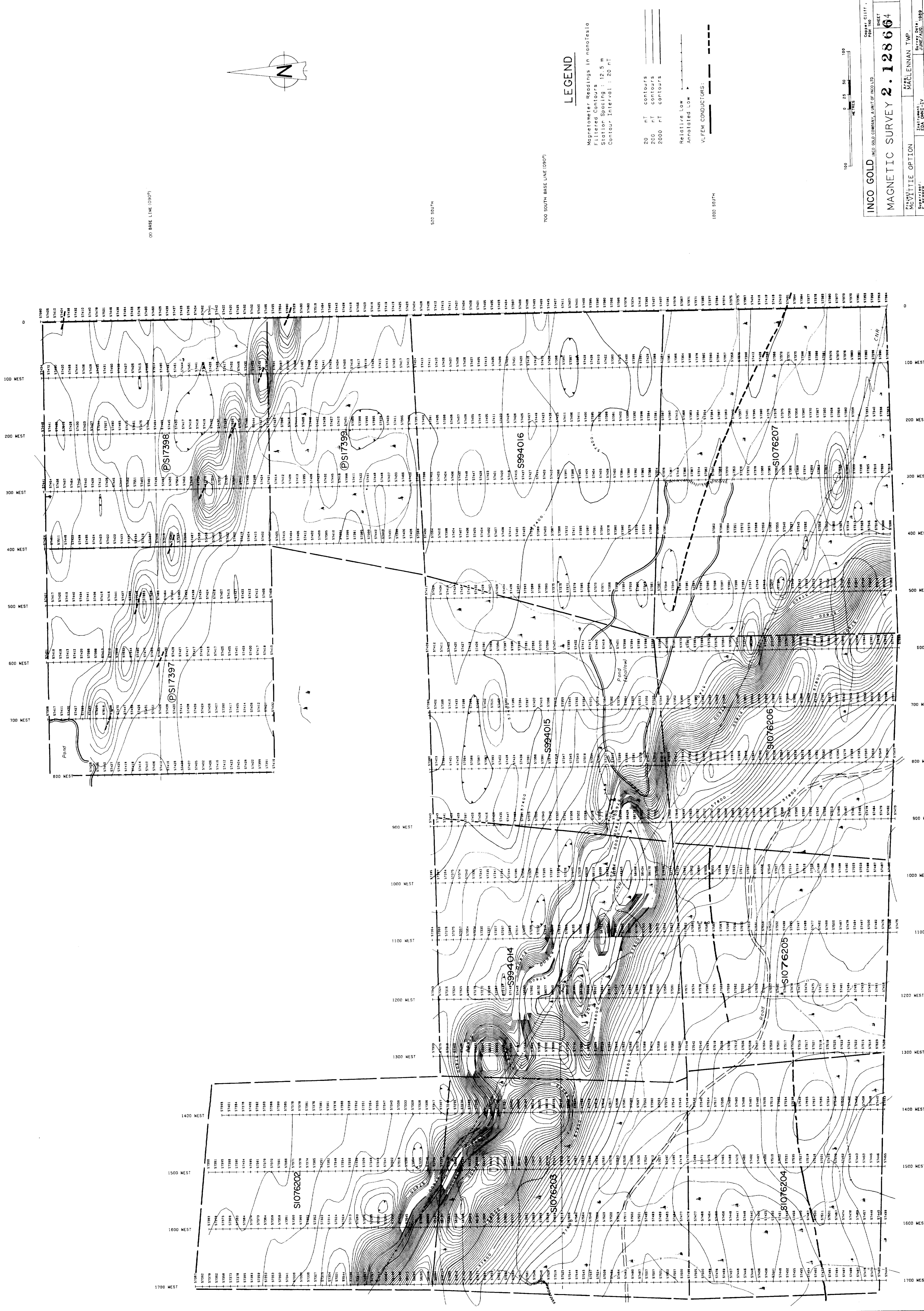
Copper Cliff, Ontario
POM INO

DETAIL GEOLOGY - 500W SECTION

SHEET 1 FIGURE 7

Project: MC VITTIE OPTION		Area: MacLENNAN TWP.	
Supervisor: J. PERRY	Instrument:	Survey date:	
Compiled by: K. HANNILA	Drawn by: B. HALBERT	Date drawn: OCT. 1989	Revised:
Scale: 1:200	File:	N.T.S. 41 110	





T



LEGEND

Transmitter Station : NAA - Cutler, Maine (24.0 kHz)
 Station Spacing : 25.0 m
 In-Phase Profile ---
 Quadrature Profile - - -
 Profile Scale 1cm = 20%
 Conductor : Medium
 Ground : Dashed

