MINGOLD RESOURCES INC.

UNDERSILL PROJECT

Report on Geology, Geochemistry,

VLF-EM-Magnetic Surveys and

Diamond Drilling

MARYJANE LAKE AREA EVA TOWNSHIP

THUNDER BAY MINING DIVISION, ONTARIO

NTS 52H/9

by

BRIAN NELSON

this file.

February 10, 1989

Thunder Bay, Ontario

Table of Contents

APPENDICES

LIST OF MAPS

Figure

LIST OF TABLES

1. Summary

From February to December 1988 a successive exploration program was carried out on the Undersill property in Eva Township near Beardmore, Ontario. This program included linecutting, VLF-EM and magnetometer geophysical surveys, till and rock geo-chem sampling, semi-detailed geological mapping, and diamond drilling. Mingold Resources Inc. was the operator. The geophysical surveys were handled by Terraphysics and the drilling was carried out by Northwest Geophysics.

The property consists of 17 contiguous claims bordering the south boundary of the Cryderman-Sand River property located approximately 5 miles northwest of Beardmore Ontario. The rocks underlying the Undersill property are dominated by bedded clastic sediments interbedded with chert-magnetite +/- hematite iron formation. Two nearby past producers the Leitch and Sand River mines, are located east-northeast of the property.

Following the spring and summer field surveys 6 drill holes totalling 2152 feet were drilled to test one geo-chem and four VLF-EM targets. The VLF-EM anomalies were explained by sheared to brecciated zones within the clastic sediments. The shear related geo-chem anomaly occurred within mafic intrusive rocks. Gold values greater than 50 ppb were sporadic and did not indicate any significant anomalous zones or trends.

Generally the results obtained from the 1988 program were discouraging.

2. Introduction

The Undersill property is located at the west end of the Beardmore-Geraldton sub-belt. It is geologically similar the past producing Leitch and Sand River gold mines situated within the immediate area. Potentially economic gold bearing zones, the creek vein and No. 16 vein are found north of the property on the Sand River ground. In 1986 the property was purchased by Mingold Resources Inc. from the Goodman Group of Beardmore, Ontario.

3. Location and Access

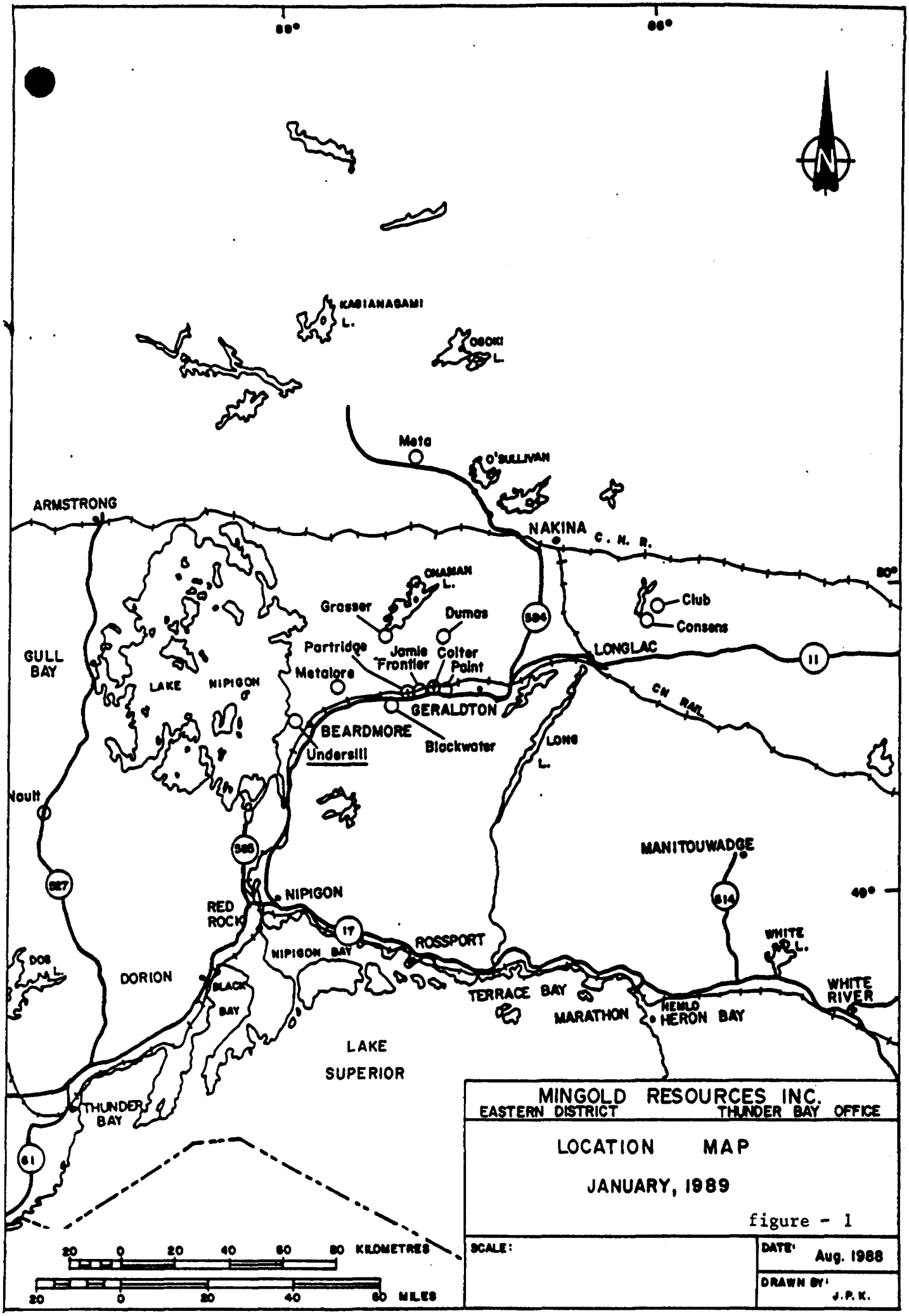
The property lies within the central portion of Eva Township at 49° 37' latitude and 88° 03' longitude within NTS area 52H/9. It is located approximately 5 miles north-west of Beardmore which is situated on the northern route of the Trans Canada Highway (highway 11B) about 110 miles northeast of the city of Thunder Bay, Ontario (see figure 1). Direct access is via highway 580 which leaves highway 11B just east of Beardmore. At Mile 4 along Highway 580, near the old Leitch and Sand River mines, a relatively good bush road heads west traversing the Sand River Property and providing quite good access (see figure 2).

4. History

The Beardmore-Geraldton gold camp rates among the top five gold camps in the Canadian Shield with production of 4.12 million ounces of gold and 0.25 million ounces of silver (Mason et al, 1986) over the past 50 years from 20 past producers. The larger of these include MacCleod-Cockshutt, Leitch, Little Longlac, Consolidated Mosher, Hard Rock, Magnet Consolidated and Northern Empire Mines.

The greatest period of gold exploration (prior to the present) was in the 1930's and early 1940's when most of the producers were discovered and operated. The claims came to lease in the 1930's but were subsequently allowed to expire. Although there is no lack of information on the adjacent Sand River and Leitch properties, a property search on the Undersill claims revealed no records of any assessment work or any other pertinent information.

Previous work on the property noted during the 1988 mapping program included: 1) trenching of a quartz vein near the south property boundary and 2) a few shallow pits blasted in overburden just south of the chert-magnetite iron formation.



MINGOLD RESOURCES INC.
EASTERN DISTRICT THUNDER BAY OFFICE

LOCATION MAP

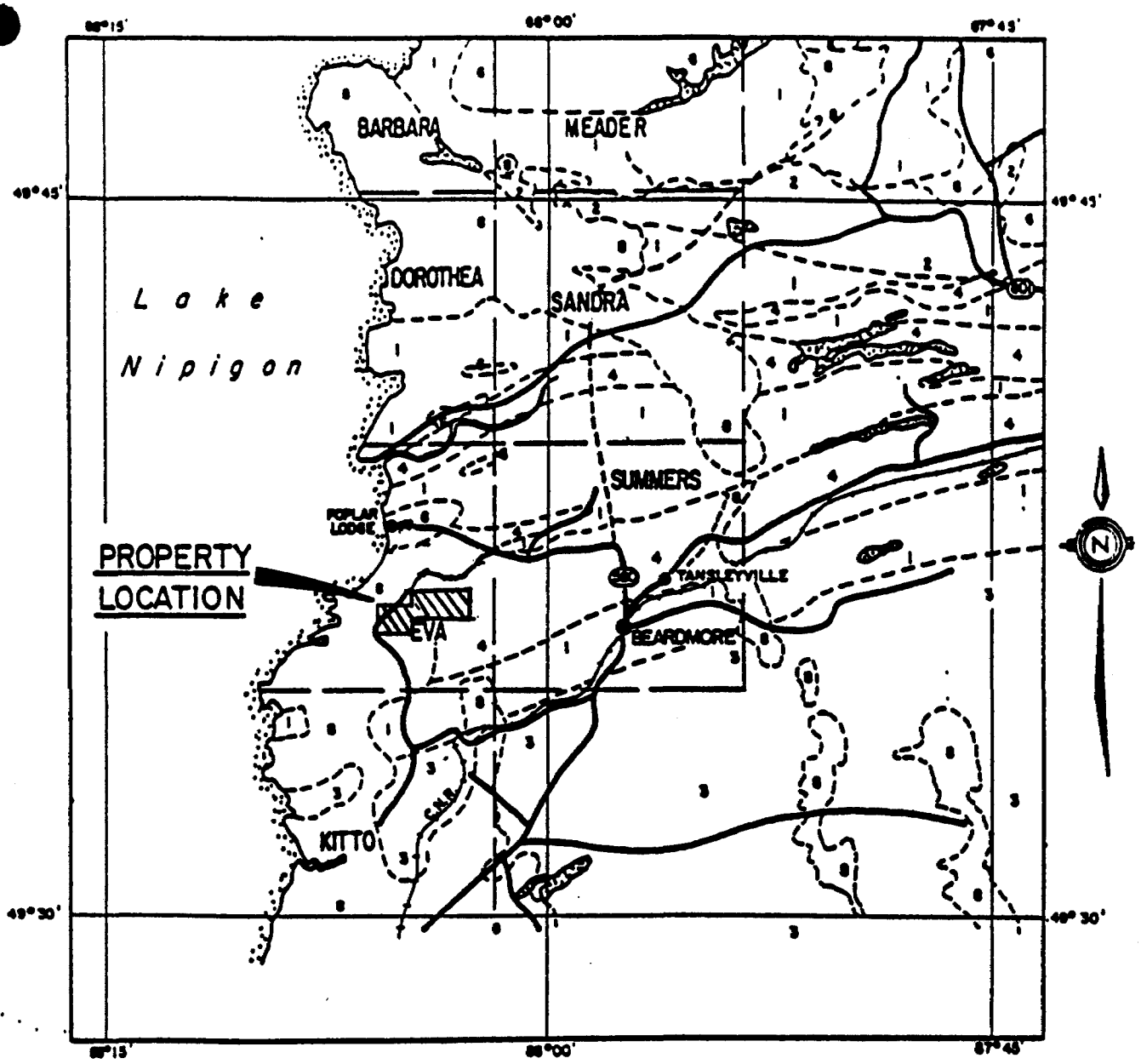
JANUARY, 1989

figure - 1

SCALE:

DATE: Aug. 1988

DRAWN BY: J.P.K.



LEGEND

8	INTRUSIVE IGNEOUS ROCKS
6	ACID IGNEOUS & METAMORPHIC ROCKS
4	METASEDIMENTS (WINDIGOKAN, COSMO & TIMISKAMING)
3	METASEDIMENTS (COUCHICHING, KEEWATIN, LINKLATER & MARSHALL LAKE)
2	METAVOLCANICS
1	BASIC & INTERMEDIATE METAVOLCANICS

NOTE: Geology from ODM Map 2102, Toshota - Geraldton Sheet, Compilation Series, 1965

REGIONAL GEOLOGY & PROPERTY LOCATION MAP

EVA TWP., DISTRICT OF THUNDER BAY

THUNDER BAY MINING DIVISION, ONTARIO

SCALE : 1" = 4 MILES

figure - 2

5. West Claim Block

This property was comprised of 7 contiguous claims located on the eastern shore of Lake Nipigon adjacent to High Hill Harbour approximately 1 mile southeast of the Undersill property. The claims are located within the Maryjane Lake claim map (G-80), Thunder Bay Mining Division, District of Thunder Bay, Ontario and are numbered 1011003 to 1011009 inclusive (see figure 3). The option on the claims has been dropped and they have subsequently been restaked.

During the summer of 1988 two days of reconnaissance mapping and soil sampling was carried out along claim lines. The property is extensively overburden covered except for a few ridges of diabase and associated diabase talus slump. Fifteen soil samples were collected but no assay results were obtained because the samples were lost in transit to Bondar-Clegg's lab in Ottawa. Rare rock exposures consisted of massive, medium grained, moderately magnetic Proterozoic diabase, part of the large sill that covers Lake Nipigon. There was no evidence of silicification, alternation, or mineralization.

Nothing significant, unusual or of any economic potential was observed during this mini-reconnaissance survey.

6. 1988 Exploration Programs

The 1988 field programs started in late March with 13.12 miles of contract linecutting and geophysics by Terraphysics which included 1.96 miles of baselines (AZ-082°) and 11.16 miles of 400 foot spaced section lines. All lines were picketed at 100 foot intervals. By late April magnetometer and VLF-EM surveys were completed over the property. Semi-detailed geological mapping and geo-chem sampling followed. During the second half of November Northwest Geophysics drilled 6 holes totalling 2152 feet.

7. Claim Data

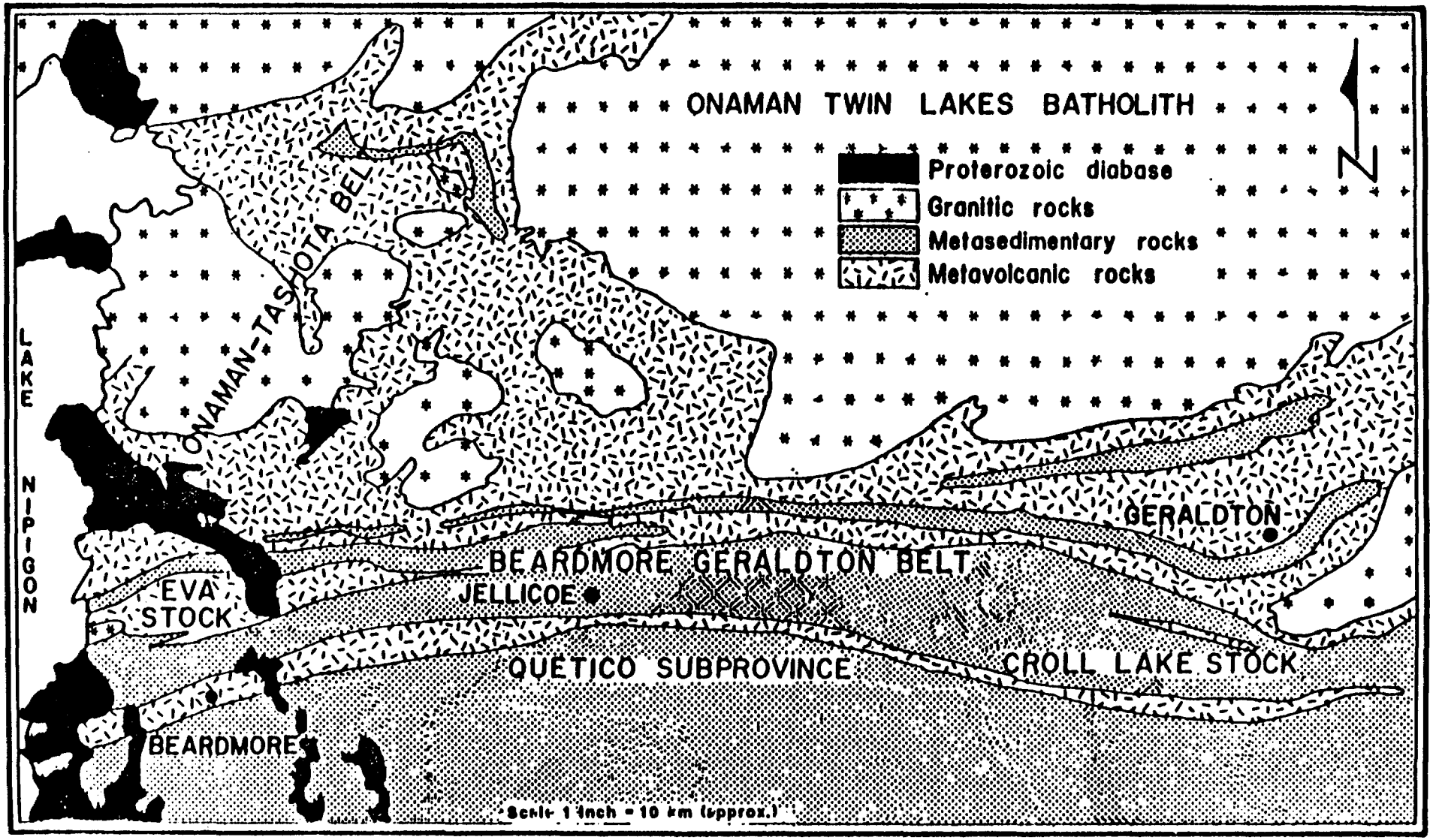
The property is comprised of 17 contiguous claims within the northeastern portion of the Maryjane Lake claim map (G-80), Thunder Bay Mining Division, District of Thunder Bay, Ontario and are numbered as follows: 990157 to 990166 inclusive and 1021386 to 1021392 inclusive (see figure 4). The claims are held in the name of Mingold Resources Inc. (license No. T-4617) located at P.O. Box 28, Toronto Dominion Centre, Toronto, Ontario M5K 1B8.

8. Regional Geology

The Beardmore-Geraldton sub-belt is situated within an east-west trending isoclinally folded metavolcanic - metasedimentary sequence within the Wabigoon sub-province of the Superior province of the Canadian Shield. The north boundary of the Beardmore-Geraldton sub-belt is marked by the Paint Lake Fault with the Onaman-Tashota meta-volcanic belt to the north. To the south it is bounded by the Quetico sub-province although the precise location of this southerly contact is debatable (see figure 3).

The Beadmore-Geraldton sub-belt consists of an east-west trending interlayered sequence of volcanic and sedimentary rocks. Lithologic units have been transposed into a series of alternating slices of metavolcanics and metasediments within a wrench or mega-shear zone (Mason & White, 86). This broad band of meta volcanics and metasediments stretching from Lake Nipigon 70 miles east to Longlac has been invaded by gabbroic, granitic, granodioritic, and quartz porphyritic sills, dykes and stocks. Thick deposits of till, sand, gravel and clay extensively cover the belt.

Local to Eva Township sedimentary rocks form three east-northeast trending belts consisting predominantly of interbedded greywacke, sandstone, siltstone, and argillite. Relatively thin bands of chert-magnetic +/- hematite iron formation are interbedded within the metasediments. Volcanic rocks form two belts paralleling the sediments and consists of massive intermediate to mafic pillowed lavas, amygdaloidal flows and volcanic breccia. Semi-concordant lenticular bodies of diorite intrude both the sediments and volcanics. North trending diabase dykes are common. A large



after Pye et al, 1966

Figure - 3

A generalized geological map of the Beardmore Geraldton

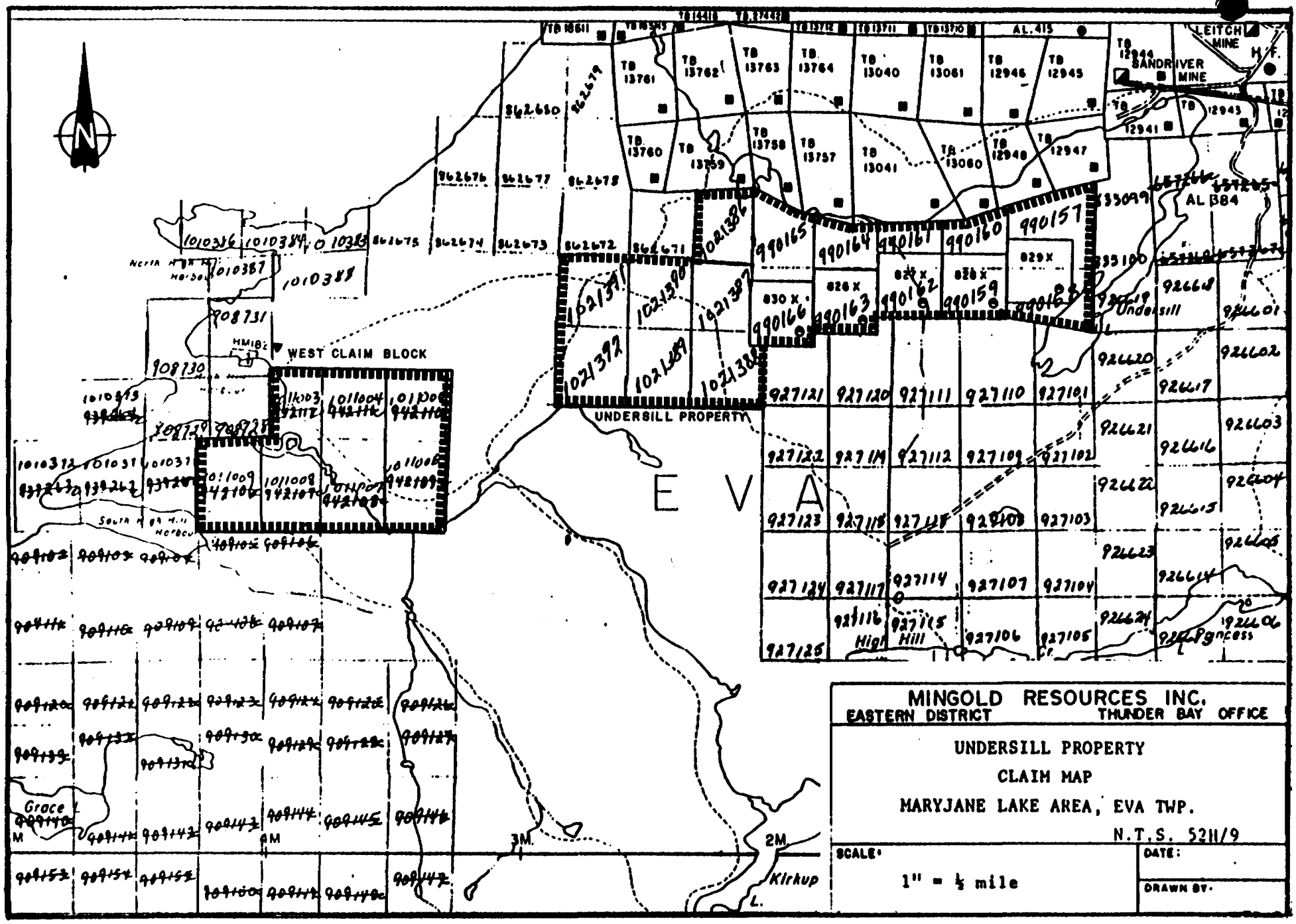

WEST CLAIM BLOCK
UNDERSILL PROPERTY
E V A
AL.415
AL 384
LEITCH MINE
SANDRIVER MINE
Undersill
High Hill
Princess
Grace
Kirkup L.
3M.
2M
MINGOLD RESOURCES INC.
EASTERN DISTRICT
THUNDER BAY OFFICE
UNDERSILL PROPERTY
CLAIM MAP
MARYJANE LAKE AREA, EVA TWP.
N.T.S. 52I/9
SCALE:
1" = ½ mile
DATE:
DRAWN BY:

Figure - 4

Property: UNDERSILL

Mining District: Thunder Bay

Claim Map: Mary Jane Lake (G-80)

MINGOLD RESOURCES INC.

CLAIM DATA

Date: November 11, 1988

N.T.S. 52H/9

Lat. 49° 37' Long 88° 04'

CLAIM NUMBER	STAKED		RECORDING DATE	TRANSFERRED		ASSESSMENT CREDITS (man-days)									TOTAL CREDITS	EXPIRY DATE					
	BY	DATE		TO	DATE	Manual	EM	Mag	Geophy	Geol.	Geochem	Drill	Strip	Mechan.	Expend			20 days	40 days	40 days	40 days	60 days
							Max. 80			Max.40	Max. 40		Max 100		Max.60	Max. 200	1988	1989	1990	1991	1992	1993
990157	H. Goodman	Apr. 12/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990158	H. Goodman	Apr. 12/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990159	H. Goodman	Apr. 12/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990160	H. Goodman	Apr. 12/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990161	H. Goodman	Apr. 12/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990162	H. Goodman	Apr. 13/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990163	H. Goodman	Apr. 13/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990164	H. Goodman	Apr. 13/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990165	H. Goodman	Apr. 13/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
990166	H. Goodman	Apr. 13/87	Apr. 16/87	MRI	Mar.29/88		34	17								51	X	X				
1021386	H. Goodman	Oct. 13/87	Oct. 15/87	MRI	Mar.29/88		34	17								51	X	X				
1021387	H. Goodman	Oct. 13/87	Oct. 15/87	MRI	Mar.29/88		34	17								51	X	X				
1021388	H. Goodman	Oct. 13/87	Oct. 15/87	MRI	Mar.29/88		34	17								51	X	X				
1021389	H. Goodman	Oct. 13/87	Oct. 15/87	MRI	Mar.29/88		34	17								51	X	X				
1021390	H. Goodman	Oct. 14/87	Oct. 15/87	MRI	Mar.29/88		34	17								51	X	X				
1021391	H. Goodman	Oct. 14/87	Oct. 15/87	MRI	Mar.29/88		34	17								51	X	X				
1021392	H. Goodman	Oct. 14/87	Oct. 15/87	MRI	Mar.29/88		34	17								51	X	X				

Table - 1

semi-flat overlying sheet of proterozoic diabase covers Lake Nipigon and extends onto the western portion of EVA Township (see figure 2).

9. Property Geology

The eastern portion of the property is moderately well exposed containing about 40% outcrop while a thick cedar swamp covers the 7 most westerly claims. Fortunately the swamp covered area was of little geological interest since the Archean metasedimentary rocks are capped by a thick sheet of Proterozoic diabase (see figure 5).

A monotonous sequence of bedded clastic metasedimentary rocks dominate. This thick package consists of interbedded argillite, siltstone and sandstone. Foliation parallels bedding striking 080° and dipping steeply north to south to vertical. Observable bedding features were rare due to lack of clean outcrop exposures. Overall the clastic sediments contain a trace to 1% disseminated fine grained pyrite and minor non mineralized white bull quartz.

Inter-bedded within this thick clastic sedimentary pile is a 100 to 300 foot thick chert-magnetite iron formation trending 080° and sub-vertically dipping. It appears to feather out to the east and is overlain by proterozoic diabase to the west. Along line 60W the iron formation is offset some 300 feet by a NNE trending fault. Near this structure the banded iron formation beds are contorted, folded and kinked to ripped, boudinaged and broken. Generally the iron formation is finely bedded and moderately deformed. It is magnetite rich composed of 75% finely laminated magnetite beds and 25% chert. Frequently the chert is hematite red (jasperitic). Sulphidation is totally lacking within the iron formation and quartz veining near the iron formation-clastic sediment contacts is not mineralized.

A massive moderately magnetic 200 foot thick NNE trending gabbro dyke cross-cuts clastic sediments in the northwest corner of the property south of the Cryderman Creek vein.

A semi-flat lying to gently westerly dipping proterozoic diabase sill overlies the sediments west of the above mentioned NS trending gabbroic dyke.

10. Mineralization

The rocks on the property are fresh looking and lack hydrothermal alteration. Mineralization is minimal within the clastic sediments containing only a trace to locally 1 to 2% fine grained to medium grained disseminated pyrite. The banded chert-magnetite +/- hematite iron formation lacks sulphidation. White bull quartz veining is completely barren of sulphides. The only joy encountered was a 3 gram Au per ton grab sample associated with minor pyrite and arsenopyrite mineralization related to the NS trending gabbroic dyke (see figure 6).

11. Geochemistry

A total of 150 soil samples and 26 rock samples were collected and analyzed for Au, Ag, As, Cu, Zn and Pb (see appendix IV). Where possible the till samples were taken at 50 meter spacing along section lines and baselines. Efforts were made to sample locally derived basal till. Litho-geochem sampling was confined to quartz veins, pyritized clastic sediments, and chert-magnetite iron formation. The vast majority of both soil and rock samples assayed <5 ppb Au. Of the 150 soil samples 15 assayed >10 ppb Au and only 3 carrying >100 ppb Au. Six litho samples assayed >10 ppb Au.

Anomalous soil and rock samples were very sporadic and did not define any significant trends. Two small isolated soil gold geo-chem anomalies occur at opposite ends of the property (see figure 6). The anomaly in the northeast corner of the property containing one sample that ran 280 ppb Au while the anomaly in the north west corner is associated with the gabbroic dyke. The only direct elemental association was found in one sample which ran 3029 ppb Au along with 1918 ppb As reflecting the arsenopyrite mineralization in the sample. Base metal analysis did not exhibit any geo-chem affinity to gold mineralization. Rarely did quartz veining or banded iron formation carry more than background gold values.

12. Geophysics

a) Magnetic Survey

The magnetic technique and data are contained in the appended report by Terraphysics. (see appendix II) A strong east-west trending linear magnetic anomaly traverses the central portion of the property reflecting the chert-magnetic +/- hematite iron formation. A 300 foot offset of this 63,000 to 85,000 gamma anomaly at L60W is interpreted as representing a north-south dextral fault crosscutting the banded iron formation. Isolated magnetic lows occur on the flanks of the iron formation. Consistent flat reading in the 59,000 to 60,000 gamma range characterize the clastic sediments. The contact between the sediments and the Proterozoic diabase sheet to the west is sharply defined by increased magnetics.

b) VLF-EM Survey

The VLF technique and data are contained in an appended report by Terraphysics. Lengthy 1200 to 3000 foot VLF anomalies crudely parallel contact zones of the banded iron formation. These VLF anomalies exhibit the same 300 foot offset as the magnetic anomaly. Numerous shorter EW trending anomalies occur north of BL60N between lines 80W and 100W, the strongest of which are found on lines 80W and 84W.

A second reconnaissance style VLF survey was run between lines 56W and 64W. The purpose of this survey was to delineate any N-S VLF conductors associated with the structure that offsets the banded iron formation. The survey was carried out using compass and pace technique along E-W traverses between L56W and 64W. Transmitting station Annapolis Maryland was used and readings were taken facing west every 100 feet. Five traverses at 300 foot spacing were completed. This mini-survey defined two northerly trending VLF anomalies corresponding to the geologically interpreted fault zone (see figure 5). These VLF conductors may flank a forked fault system.

13. Diamond Drilling

Six holes totalling 2152 feet were drilled between late November and early December 1988 (see figure 5). For logs, assay results and cross-sections of the drill holes see Appendix III.

UND-1 drilled the possible downdip extension of a 3029 ppb Au/ton surface grab sample. It intersected a series of alternating gabbroic and diabase dykes and sills. Shearing, silicification, and quartz veining were minimal. The best intersection of 2566 ppb Au over 0.7 ft. in a quartz injected mini-shear zone within diabase was not coincident with the highly anomalous surface grab sample.

UND-2 drilled a broad east-west trending VLF conductor. Inter-bedded argillite and greywacke, brecciated clastic sediment beds and massive quartz-gabbro were intersected. The broad VLF anomaly appears to be related to the gabbroic sill-sediment contact zone. The best gold assay was 11 ppb Au over 3.0 ft.

UND-3 drilled a strong sharp E-W trending VLF conductor. Interbedded argillite and greywacke containing local quartz veining and minor pyrite were intersected. The strong VLF was caused by a shear-brecciated fault zone (Watson Lake Fault). The best gold assay of 1125 ppb Au over 2.5 ft came from a sheared argillite bed.

UND-4A drilled 88 feet of inter-bedded iron formation and clastic sediments. The casing shifted and the hole was abandoned.

UND-4 drilled two VLF conductors, one trending EW and one trending NS. An interbedded sequence of chert-magnetite +/-hematite iron formation and clastic sediments was intersected. The banded iron formation lacked sulphidation and quartz veining. The VLF conductors appear to be sheared micaceous to vuggy faulted zones lacking sulphide mineralization. The best gold assay of 10 ppb Au over 3.0 ft occurred at the end of the hole.

UND-5 drilled two VLF conductors, one trending E-W and one trending NNE. An alternating sequence of clastic sediments and chert-magnetite +/- hematite iron formation was intersected. As in hole UND-4 the banded iron formation lacked sulphidation and quartz veining. The cause of the NNE VLF anomaly was not confirmed but it is likely the result of sheared micaceous bedding contacts. The EW trending VLF conductor was probably caused by a vuggy argillitic (fault?) zone. The best gold assay was 1644 ppb Au over 0.5 ft. from a quartz vein hosted by sheared clastic sediments.

14. Conclusions and Recommendations

The results from the 1988 field and drill programs were disappointing. None of the VLF anomalies can be explained by conductive mineralization but rather by a variety of geological and structural features. These include: a broad VLF associated with a quartz-gabbro sill, a strong sharp VLF coincident with an EW trending fault zone (Watson Lake Fault) and VLF conductors related to chloritized sheared to vuggy (fault?) zones.

Extensive surface and core sampling yielded rare and sporadic anomalous gold numbers. No economically significant gold values were obtained and indicator alteration relating to gold mineralization was lacking.

The 1988 exploration programs should fulfill the assessment requirements until 1993 (refer to table 2). It is recommended that a couple of days of follow-up soil geo-chem sampling be carried out to better detail and qualify the 1988 data. This sampling should be carried out within three areas of the property. These include: 1) the NE corner hosting a small soil geo-chem anomaly adjacent to the Cryderman property, 2) proximal to the NS trending gabbroic dyke south of the Cryderman Creek Zone and 3) in the area of the faulted iron formation. This information should confirm or disprove 1) the real existence of the weak geochem anomalies and 2) if any gold mineralization is associated with the NS faulted iron formation once and for all.

The data on the Sand River Property submitted to us by Tom Gledhill on behalf of Cryderman Gold Inc. should be reviewed and evaluated.

1988 UNDERSILL DRILLING

Hole	Easting	Northing	Azimuth	Dip	Length (ft)	Purpose	Comments
UND-1	92+00W	84+00N	112°	-48°	392	To test possible downdip extension of surface grab sample assaying 3029 ppb Au	-464 ppb Au/16.7 ft including 2566 ppb Au/ 0.7 ft.
UND-2	88+00W	74+25N	352°	-50°	426	To test broad VLF anomaly	-anomaly represents gabbroic sill-sed contact zone -first attempt, hole lost in 110 ft of OB -highest assay 11ppb Au
UND-3	80+00W	72+00N	352°	-50°	308	To test strong sharp VLF anomaly	-anomaly reflects fault zone (main break?) -most significant assay 1125 ppb Au/2.5 ft.
UND-4A	62+43W	58+00N	142°	-51°	88	To test EW trending VLF anomaly associated with BIF and NS VLF anomaly associated with NS fault zone	Hole lost when casing shifted
UND-4	62+73W	58+23N	142°	-48°	400	Same as for 4A, second attempt	Best assay 10ppb/3.0 ft No specific mineralization or structure intersected that would identify conductors
UND-5	60+00W	56+50N	142°	-48°	538	To test NNE trending VLF anomaly and VLF associated with BIF	Best assay 1644 ppb Au/ 0.5 ft - VLF conductor-possibly vuggy section in hole

Table - 2

TOTAL = 2152 feet

15. References

LANGFORD, G. B.
1928 Geology of the Beardmore-Nezah Gold Area, Thunder Bay District; Ontario Department of Mines Annual Report 1928, Volume 37, Part 4, 83-108p.

MASON, J. K. and WHITE, G. D.
1986 Gold Occurrences, Prospects and Deposits of the Beardmore-Geraldton Area, Districts of Thunder Bay and Cochrane; Ontario Geological Survey, Open File Report 5630, Volume 1, 383p.

RENNICK, M. W.
1988 Report on the Cryderman Gold Inc., Sand River Property, Eva Township, Thunder Bay Mining Division, District of Thunder Bay, Ontario, 23p

16. Qualifications

BRIAN NELSON

Residence: 372 N. Algoma Street,
Thunder Bay, Ontario
P7A 5B6

Education: H BSc. Geology
Lakehead University 1984

Experience:

1984-1987	Corporation Falconbridge Copper (Minnova) Inc.
1987-	Matt Berry Mines Ltd.
1988-	First General Mine Management and Gold Corporation
1988-1989	Mingold Resources Inc.

Brian Nelson supervised the 1988 program on the Undersill property and is the author of this report.

Brian Nelson

Note: This page and the following 9 (all of Appendix I) were added to this report for 1990 fam on 88-1-C-188

APPENDIX I

PERSONNEL AND MAN DAYS STATISTICS

TABLE 3

Personnel Addresses and Man-days worked for Period
March 10 to December 31, 1988

Name	Address	Man-Days	Period
Project Supervisor			
Gerald Bidwell	430 Cartier Court Thunder Bay, Ont. P7E 6A9	9	June 9 - Dec. 31, 1988
Geological Mapping			
Brian Nelson	372 N. Algoma Street Thunder Bay, Ont. P7A 5B6	14	May 26 - June 8, 1988
Geo-chem Sampling			
Dennis Cormack	652 Churchill Dr., Thunder Bay, Ont. P7C 5K6	16	May 26 - June 24, 1988
Compilation			
Brian Nelson	(as above)	2	June 13 - June 14, 1988
Drill Planning & Reports			
Brian Nelson	(as above)	6	Oct. 31 - Nov. 9, 1988
Drill Supervision & Core Logging			
Brian Nelson	(as above)	16	Nov. 10 - Nov. 26, 1988
Drafting			
George Fesnack	184 Theresa Street Thunder Bay, Ont. P7A 5P7	5	Sept. 6 - Sept. 16, 1988

TABLE 3

Personnel Addresses and Man-Days worked for Period
March 10 to December 31, 1988

Name	Address	Man-Days	Period
Core Splitting			
Tony Pirez	Highway 11 Jellicoe, Ont. P0T 1V0	5	Nov. 28 - Dec. 2, 1988
Drilling			
Northwest Geophysics	Box 3263 Thunder Bay, Ont. P7B 5E8	85	Nov. 10 - Nov. 26, 1988
- total of 2065 feet in 5 holes			
Linecutting - VLF -EM and Magnetic Surveys			
Terraphysics Ltd.	R. R. #1 Pass Lake, Ont. P0T 1M0	33	March 10 - April 10, 1988
Linecutting = 13.2 miles - 25			
VLF-EM = 11.2 miles - 4			
Magnetic = 13.2 miles - 4			

TABLE 4

Personnel Addresses and Man-days Worked for Period
June 9 to Dec. 31, 1988

Name	Address	Man-Days	Period
Project Supervisor			
Gerald Bidwell	430 Cartier Court Thunder Bay, Ont. P7E 6A9	9	June 9 - Dec. 31, 1988
Compilation			
Brian Nelson	372 N. Algoma Street Thunder Bay, Ont. P7A 5B6	2	June 13 - June 14, 1988
Drill Plans & Reports			
Brian Nelson	(as above)	6	Oct. 31 - Nov. 9, 1988
Drill Supervision & Core Logging			
Brian Nelson	(as above)	16	Nov. 10 - Nov. 26, 1988
Drafting			
George Fesnack	184 Theresa Street Thunder Bay, Ont. P7A 5P7	5	Sept. 6 - Sept. 16, 1988
General Labour			
Dennis Cormack	652 Churchill Dr., Thunder Bay, Ont. P7C 5K6	3	June 22 - June 24
Tony Pirez	Highway 11 Jellicoe, Ont. P0T 1V0	5	Nov. 28 - Dec. 2, 1988
Drilling			
Northwest Geophysics	Box 3263 Thunder Bay, Ont. P7B 5E8	85	Nov. 10 - Nov. 26, 1988

- total of 2065 feet in 5 holes

APPENDIX II

REPORT ON VLF-EM and MAGNETIC SURVEY

REPORT ON A VLF ELECTROMAGNETIC SURVEY

AND MAGNETIC SURVEY

UNDERSILL CLAIMS

MARYJANE LAKE AREA, EVA TOWNSHIP

THUNDER BAY MINING DIVISION, ONTARIO

N.T.S. 52H/9

BY

WILLIAM RICHARDSON

June 14, 1988

Thunder Bay, Ontario

Location and Access

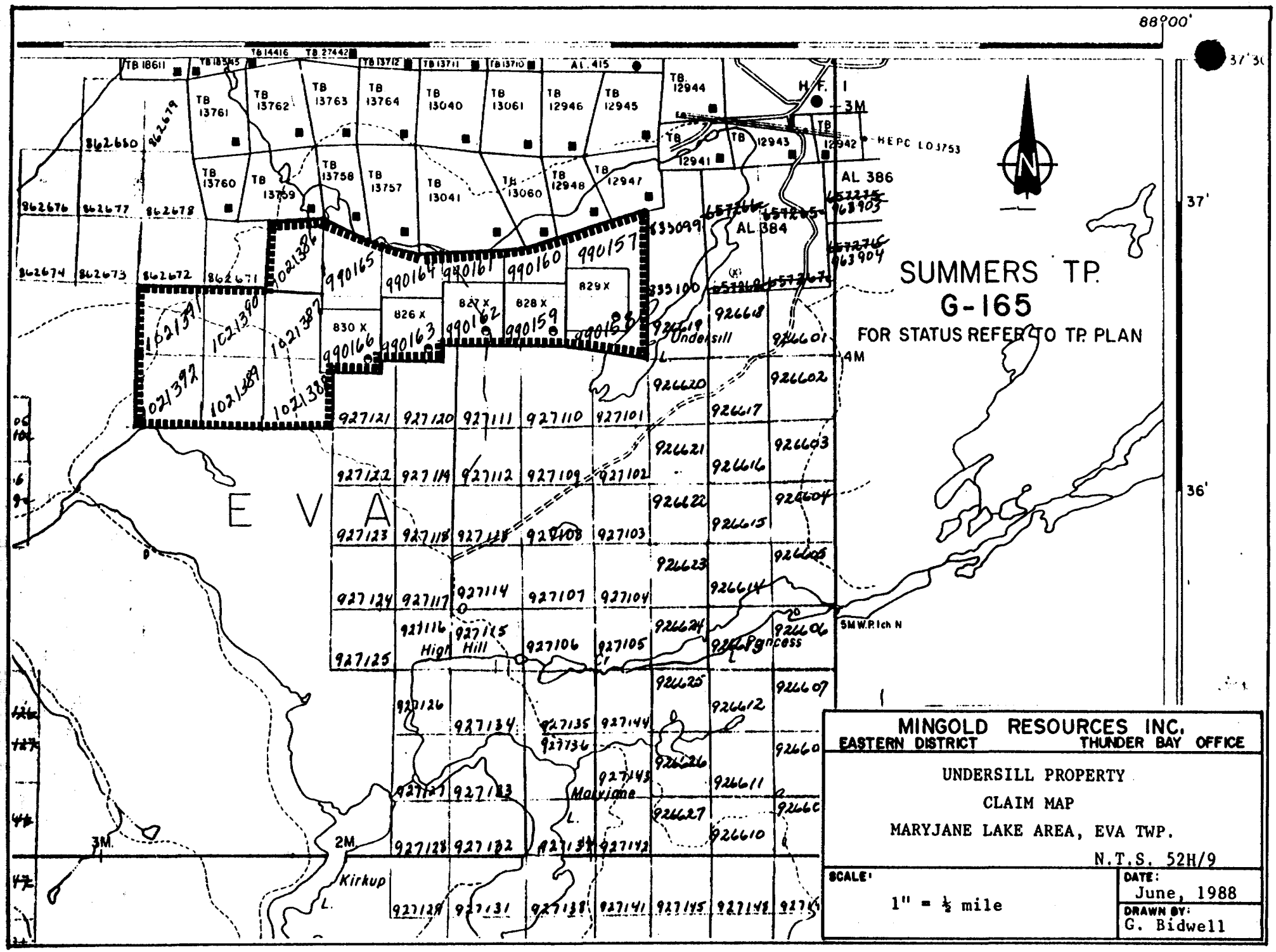
The property lies in the central portion of Eva Township at 49° 37' latitude and 88° 03' longitude in N.T.S. area 52H/9.

The claims are 7 kilometers northwest of Beardmore, Ontario. Access from Beardmore is via Highway #580 to the Leitch Mine property and the south along the Sand River Mine road. The Mingold claims are reached via foot from a drill road on the southern portion of the Sand River property.

Property and Ownership

The property consists of 17 contiguous claims in the northeastern portion of the Maryjane Lake claim map (G-80). The claim numbers are TB990157 to 990166 and TB1021386 to 1021392. The assessment covers the entire group.

The claims are held in the name of Mingold Resources Inc. (Licence No. T-4617) located at P.O. Box 28, Toronto Dominion Centre, Toronto, Ontario M5K 1B8.


88°00'
37°30'
37'
36'
SUMMERS TP.
G-165
FOR STATUS REFER TO TP. PLAN
EVA
AL 386
AL 384
AL 415
HEPC LO3753
3M
4M
2M
SMW.P.Ich N
High Hill
Maryjane
Kirkup
Undersill
Princess
MINGOLD RESOURCES INC.
EASTERN DISTRICT
THUNDER BAY OFFICE
UNDERSILL PROPERTY
CLAIM MAP
MARYJANE LAKE AREA, EVA TWP.
N.T.S. 52H/9
SCALE:
1" = ½ mile
DATE:
June, 1988
DRAWN BY:
G. Bidwell

Geology

The claims lie within the southern portion of the Wabigoon Sub-province in the Beardmore-Geraldton Belt. This belt consists of east-west trending linear sequences of metasedimentary and metavolcanic units.

On the claims a metasedimentary sequence is present. It consists of Archean greywacke, conglomerate, argillite and magnetic hematite chert iron formation. In the western area of the property a Proterozoic diabase sill outcrops. Minor mafic dykes are also present.

The sedimentary units trend at 080° and dip steeply north-south to vertical. Intermittent iron formations indicate off setting of the units by faulting (right-hand) or tight isoclinal folding of the sequence. The Proterozoic diabase is flat-lying and may have a shallow dip to the west. The late mafic dykes trend north to northeasterly and dip vertical.

No economic mineralization has been recorded on the claims. Some old pits have been located along or in the vicinity of the iron formation particularly where quartz veins are present. The neighbouring Sand River and Leitch properties are both past producers. The gold mineralization is in quartz veins parallelling the sedimentary trend (080°) in lenses plunging about 50° to the west. Between 1936 and 1968 the Leitch mine produced 847,291 ounces of gold from 1,022360 tons. The Sand River mine produced 50,000 oz of gold from 157,870 tons.

Linecutting

A grid totalling 13.12 miles of line is located on the property. Base lines at 50 N and 60 N. Section lines are located at 400 foot intervals and picketed at 100 foot intervals.

Ground Magnetic Survey

A total of 13.12 miles of magnetic survey were carried out on the section lines spaced 400 feet apart with readings at 100 foot intervals. A total of 693 readings are located on the enclosed map.

The magnetic data was obtained with a Geometrics G-816 proton magnetometer. Diurnal corrections were made by looping to baseline stations.

Ground VLF Electromagnetic Survey

A total of 11.16 miles of VLF-electromagnetic survey was carried out on the section lines spaced 400 feet apart with reading at 100 foot intervals. A total of 611 readings are located on the enclosed map. Transmitter NSS (Seatle, Washington) was used, with all readings recorded facing north.

A Geonics EM-16 electromagnetic instrument was used for the survey. The instrument is very low frequency receiver which operates in the 15 to 25 kHz band and makes use of radio signals transmitted by components of a communications network operated by the United States Navy. Signals transmitted from vertical antennae produce concentric, horizontal magnetic fields (the primary field) around the antennae. Under the influence of this primary field conductive bodies generate weak, secondary fields which are detected by the instrument.

The EM-16 receiver consists of two receiving coils at 90° to each other and the inputs of these coils are used to measure the secondary field. When the instrument is property oriented the signal from the vertical coil is minimized by tilting and the percentage of the tilt is recorded (in-phase reading). The remaining signal in this coil is balanced out by a measured percentage of the signal in the other coil (out-of-phase reading), after being shifted by 90° in-phase. Normally this coil is parallel to the primary field.

Conclusion

As a result of the VLF survey using the EM-16 and Seattle station anomalous trends crosscutting the section lines were recorded and plotted on the VLF map at 100 ft intervals. VLF signal was generally clear and relatively sharp enabling an accuracy of ± 1%.

Because of the presence of iron formation extending through the centre of the grid and surfacing in the area of L-64-84 in particular a correlation with geological mapping may indicate a preference to the weaker anomalies not associated with this particular area.

An anomaly 3+75N L-88 may be of interest as it is covered by overburden and not identifiable from surface exploration. It also has no apparent Mag anomaly associated with it unlike the iron formation along BL 60N.

The changes in VLF readings in the area north east part of the grid I believe to reflect the change in topography outcrops and swampy conditions however, another judgement with respect to geology may prove beneficial in determining the importance of this area.

This evaluation of geophysical data is interpreted by myself, Bill Richardson and is not intended to eliminate possibilities of economic mineral occurrences but indeed to inspire further exploratory work to satisfy aspiration of individuals to search more minable ore bodies.

Mag survey was carried out by running the base lines first so that it could be used as a correction for readings on the section lines. The time lapse for readings on the section lines was very short - usually only a few minutes and as a result magnetic drift was very little ± gammas. In this area where anomalous conditions caused reading variations of several hundred gammas it was felt that this error would have no apparent reflection on the accuracy of the survey.

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) VLF Electromagnetic and Magnetic

Township or Area Maryjane Lake (G-80)

Claim Holder(s) Mingold Resources Inc., Box 28
Toronto Dominion Centre, Toronto, Ont. M5K 1B8

Survey Company Terraphysics Ltd.

Author of Report William Richardson

Address of Author Pass Lake, Ontario P0T 2M0

Covering Dates of Survey March 10, 1988 to April 14, 1988
(linecutting to office)

Total Miles of Line Cut 13.12 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

400 ft. spacing

	DAYS per claim
Geophysical	
–Electromagnetic	40
–Magnetometer	20
–Radiometric	
–Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: June 15/88 SIGNATURE: W.A. Richardson
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

If space insufficient, attach list

(prefix)	(number)
TB	990157
	990158
	990159
	990160
	990161
	990162
	990163
	990164
	990165
	990166
	1021386
	1021387
	1021388
	1021389
	1021390
	1021391
	1021392

TOTAL CLAIMS 17

OFFICE USE ONLY

APPENDIX III

DRILL DATA - LOGS, ASSAYS, SECTIONS

MINGOLD RESOURCES INC.
Eastern District

Date: November 14, 1988

PROJECT: UNDERSILL
DRILL HOLE NO. UND - 1

CO-ORDINATES: 92+00W 84+00N
COLLAR ELEV.:
AZIMUTH: 112°
ANGLE: -48°
REMARKS:

CLAIM NO.: TB 990165
CORE SIZE: BQ
DATE STARTED: Nov. 11, 1988
COMPLETED: Nov. 13, 1988

LOGGED BY: Brian Nelson
DRILLED BY: Northwest Geophysics
SECTION: Off Section
DEPTH: 392.0 Ft.

HOLE SURVEYS (CORRECTED)

DEPTH	DIP	DIRECTION
347'	-40°	(Acid)

O.B. - overburden
L.C. - lost core
N.A. - not sampled

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb
0.0	15.5	Overburden	Sand, mud, & Boulders	O.B.	0.0	15.5	15.5	
15.5	68.0	Diabase	Grey, fine grained to finer medium grained, massive to locally weakly foliated (sheared) @60 to 80° to CA -overall quite hard, porphyritic, overall 20% 2 mm to 2-3 cm beige to white anhedral quartz-feldspar cluster (crystals); generally the larger the crystals the greater the concentration, up to 50% large ghosty remnant crystals. -moderate to strongly magnetic, 10% to locally 20% small mm scale magnetite crystals disseminated throughout, trace fine grained disseminated pyrite plus narrow mm scale pyrite veinlets -minor 3mm to 2 to 3 cm scale quartz veining, minor bleby to narrow stringery pyrite associated with QVs, veining erratic a various angles to core angle Comment: may not be diabase, instead altered contact zone of gabbro.	N.A.	15.5	17.0	1.5	<5/<5/<5
				60101	17.0	20.0	3.0	
				N.A.	20.0	37.0	17.0	
				60102	37.0	40.0	3.0	9/<5/12
				N.A.	40.0	68.0	28.0	
68.0	71.4	Sheared Diabase	-Grey, fine grained, hard with a mottled weakly sheared appearance -Shearing @ 70° to core axis and defined by parallel alignment of flattened quartz-feldspar crystals within plane of shearing -minor 2 to 5 mm scale white quartz veining predominantly sub-parallel to shearing -weakly sheared equivalent to preceding unit	60103	68.0	71.4	3.4	160/145/172
71.4	73.4	Quartz Veining	-50% erratic grey-white quartz-veining and 50% very fine grained dark grey host. 71.4 - 72.1 Quartz vein - white-grey refractured quartz containing 10% 1-3 mm scale erratic stringery mgt rich inclusions, minor yellowy Fe Co3 ? staining and 1% medium grained bleby pyrite - upper and lower contacts @ 45° to core axis	60104	71.4	72.1	0.7	2596/2536
				60105	72.1	73.6	1.5	724/812/936
73.4	77.8	Diabase	Grey, fine grained, hard, massive and locally porphyritic	60106	73.6	77.8	4.2	95/107/89

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND-1

Date: November 14/88

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
77.8	81.2	Quartz Vein	White-grey erratic brecciated vein containing 30 to 40% very erratic grey to black magnetite rich inclusions (veinlike) - minor disseminated med. grained pyrite (1-2% pyrite) - irregular upper and lower contacts Does not appear as one vein but more of a stockwork of quartz veining	60107	77.8	81.2	3.6	908/908	/901	
81.2	100.0	Diabase	Dark greeny-grey, very fine grained, hard, massive with a local weak porphyritic texture - local ghosty white 3mm to 3 cm ameboid spots (different from quartz-feldspar crystal's spots) - weak to moderate magnetite - rare 1 to 3 mm stringer pyrite - <5% erratic grey 3 mm to 2 cm wide quartz veins - contact at 90.5 not very convincing (gradational) - appears to be just another phase of diabase 90.5 - 100.0 quartz-feldspar porphyritic texture dominant with 35% 1 to 5 mm scale anhedral quartz-feldspar clusters - at 98.1 - mini fault offsets veinlet by 2 to 3 mm (vein 90° to core axis, fault parallel to core axis)	60108	81.2	84.5	3.3	135/161	/157	
				60109	84.5	90.5	6.0	9/9/11		
				60110	90.5	95.5	5.0	5/<5/<5		
				60111	95.5	100.0	4.5	<5		
100.0	126.4	Gabbro-Diabase?	Grey to greeny grey, medium grained to fine grained, hard and massive with a pseudo-blotchy texture - locally clustered with mm scale anhedral feldspar crystals -strongly magnetic (10% to 20% fine grained mm scale magnetite crystals - quartz rich - 30 to 40% interstial quartz - trace to 1% fine grained disseminated pyrite Comment: possibly classified as a Quartz Gabbro 117.8 - 119.8 fine grained phase of unit 124.1 - 124.6 mini shear @60° to core axis, narrow zone contains cm scale irregular grey quartz vein with minor associated bleby pyrite	60112	100.0	105.0	5.0	<5		
				N. A.	105.0	124.9	19.9			
				60113	124.9	126.4	1.5	<5		
126.4	131.4	Contact Zone (Sheared Gabbro-Diabase)	- Grey, fine grained hard and weakly sheared at 70 to 80° to core axise - strongly magnetic - minor 2 to 5 mm scale quartz veining, minor bleby pyrite associated with veining - sharp upper and lower contacts @ 60° to core axis	60114	126.4	131.4	5.0	<5		
				N. A.	131.4	187.1	55.7			
131.4	187.1	Quartz Gabbro (Diabase)?	Greeny-grey, medium grained to finer medium grained, predominantly massive, locally porphyritic - porphyritic sections contains up to 20% 1 to 5 mm chalky white quartz-feldspar clusters - quartz rich, up to 50% interstrial (matrix) quartz							

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND-1

Date: Nov. 14, 1988

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			- 15% tiny <mm scale magnetite crystals -local epidote as narrow veining & as matrix component 140.4 - 141.5 mini-shear zone, weak to medium sheared fabric @ 70° to core axis At 145.5 1.5 cm wide quartz-epidote and minor hematite (red mineral) veinlet @ 70° to core axis	60115	187.1	190.3	3.2	<5		
				60116	190.3	195.5	5.2	<5		
				60117	195.5	200.5	5.0	<5		
				60118	200.5	205.0	4.5	<5		
				60119	205.0	207.0	2.0	<5		
187.1	223.5	Quartz Gabbro	Greeny-grey, fine grained to medium grained, hard, massive, lacking porphyritic texture - overall grain size decreases while epidotization increases downhole through unit - moderately magnetic - trace fine grained disseminated pyrite 187.1 to 206.0 greeny-grey medium grained massive quartz gabbro cut by 5 to 8% erratic 5 mm to 10 cm wide quartz-feldspar (+ carbonate?) veining containing minor fine grained disseminated pyrite 206.0 to 223.0 grey to epidote-green bleached, fine grained to finer medium grained and very hard; light green epidote bleached zones on a 10-30 cm scale - 5% irregular 1 to 3 cm scale quartz-feldspar veining and blotching - appears to be finer grained, epidotized and more silicified equivalent of (187.1 - 206.0)	60120	207.0	211.0	4.0	<5		
				60121	211.0	215.0	4.0	<5		
				60122	215.0	220.0	5.0	12		
				60123	220.0	223.0	3.5	6		
223.5	228.6	Silicified Gabbro	grey medium grained,massive and very hard - very slight reddish tinge (hematite stain?) - 2 to 3% fine grained pyrite disseminated throughout - moderate to weakly magnetic	60124	223.5	228.6	5.1	33		
228.6	235.5	Breccia Zone	Medium grained sub-angular leuco-gabbro fragments suspended in a grey siliceous cement - overall 50% fragments, 50% inter-fragment silia - fragments exhibit weak hematitic staining and are moderately magnetic - 3 to 5% fine grained disseminated to bleby pyrite plus minor mm scale stringer pyrite - contact at 235.3 marked by 3 cm wide white quartz vein sub parallel to core axis.	60125	228.6	232.0	3.4	147		
				60126	232.0	235.5	3.5	191		
235.5	267.5	Altered (Spotted) Quartz Gabbro	Greeny-grey, medium grained, massive and very hard with a distinctive mafic spotted texture - contains 40% 1 to 3 mm sub-angular chloritic crystals (spots), intensity and size of chloritic spots decreases downhole through unit - locally moderately magnetic	60127	235.5	240.0	4.5	29		
				60128	240.0	241.0	1.0	48		
				60129	241.0	246.0	5.0	51		
				60130	246.0	251.0	5.0	28		

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND-1

Date: Nov. 14, 1988

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			- minor bleby pyrrhotite	60131	251.0	256.0	5.0	23		
			sharp contact at 267.5 @ 50° to core axis	60132	256.0	261.0	5.0	49		
			240.5 40% large 2 to 2 cm pyrrhotite blebs and minor pyrite	60133	261.0	266.0	5.0	73		
				60134	266.0	267.5	1.5	179		
267.5	324.5	Quartz Gabbro	Grey to slightly greenish, medium grained, massive and hard	60135	267.5	270.5	3.0	13		
			- locally moderately magnetic	N. A.	270.5	316.0	45.5			
			- trace, very fine grained disseminated pyrite	60136	316.0	319.0	3.0	<5		
			- 30 to 40% 1 to 2 mm scale amphibolite crystals set in a fine grained quartz feldspar ground mass	N. A.	319.0	336.7	17.7			
			- 10% tiny, 2mm scale glassy tabular crystals (quartz?) or colourless amphibole							
324.5	336.7	Diabase Dyke	Grey, fine grained, massive and hard							
			- locally containing sub-rounded to irregular coarse grained quartz-feldspar amphibole spots on a 5 mm to 3 cm scale							
			- locally weakly magnetic							
			- trace fine grained disseminated pyrite							
			Sharp but somewhat irregular contact at 324.5 @ 70° to 80° to core axis							
			More of a gradational contact at 336.7							
336.7	392.0 E.O.H.	Quartz Gabbro	Grey to greeny grey, medium grained, massive and hard	60137	336.7	341.7	5.0	5		
			- moderately magnetic	N. A.	341.7	354.0	12.3			
			- trace disseminated fine grained pyrite	60138	354.0	356.0	2.0	<5		
			336.7 to 356.0 1 to 5 foot sections containing up to 20% goldy coloured mica (biotite)	N. A.	356.0	392.0	36.0			
			At 354.6 1 cm wide light grey felsic dykelet cutting gabbro at 75° to core axis							

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND-2

Date: Nov. 22, 1988

CO-ORDINATES: 88+00W 74+25N
COLLAR ELEV.:
AZIMUTH: 352°
ANGLE: -50°

CLAIM NO.: TB 990165
CORE SIZE: BQ
DATE STARTED: Nov. 13, 1988
COMPLETED: Nov. 16, 1988

LOGGED BY: Brian Nelson
DRILLED BY: Northwest Geophysics
SECTION: 88+00W
DEPTH: 426 ft.

HOLE SURVEYS (CORRECTED)
DEPTH DIP DIRECTION
316 ft - 49°

REMARKS: First hole on setup lost - casing shifted in OB (length 110')

OB - overburden
N.A.- not sampled

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
0.0	100.0	Overburden		O. B.	0.0	100.0	100.0			
100.0	185.0	Sediment (Argillite)	Light to dark grey, fine grained, hard and well bedded	N. A.	100.0	136.0	36.0			
			Alternate very fine grained dark grey argillite and finer medium grained lighter grey clastic beds, bedding thickness quite variable from a 0.25" to 10ft scale, generally the finer grained beds are thinner	60139	136.0	137.0	1.0	<5		
				N. A.	137.0	153.0	16.0			
			Bedding at 50° to core axis	60140	153.0	156.0	3.0	5		
			Trace local disseminated pyrite	N. A.	156.0	180.0	24.0			
			Very minor mm to cm scale quartz veining	60141	180.0	185.0	5.0	<5		
			At 136.8 -cm scale quartz vein sub-parallel to core axis, minor associated blebs to stringer pyrite							
			Core blocky and broken							
			Note: Boxes 1 and 2 dumped							
185.0	209.5	Pseudo-Brecciated Sediment	Grey, fine grained to medium grained, hard, locally well bedded. Bedding attitude quite variable from 50° to core axis to sub-parallel to core axis (less competent argillite rotated or smeared towards plane of core axis)	60142	185.0	188.0	3.0	<5		
				60143	188.0	191.0	3.0	<5		
			Zone intruded by 5% erratic mm to locally cm scale grey white quartz veining, lighter grey silicified appearance associated with quartz veining							
			Minor disseminated to bleby pyrite throughout							
			Upper and lower contacts quite sharp at 30° to 45° to core axis							
			191.5 to 197.5 medium grained mass sediment bed contains a sheared argillite bed at 194.0, bed sheared at 10 to 15° to core axis	60144	191.0	197.5	6.5	<5		
				60145	197.5	200.0	2.5	<5		
				60146	200.0	200.5	0.5	<5		
			200.0 to 200.5 5% mm scale threads of pyrite	60147	200.5	203.7	3.2	<5		
			200.5 to 203.7 3 to locally 10% bleby pyrite in breccia, silicified quartz injection zone	60148	203.7	206.0	2.3	<5		
				60149	206.0	209.5	3.5	<5		
209.5	218.0	Inter-mediate Dyke	Grey, fine grained, massive and hard	60150	209.5	214.0	4.5	<5		
			- weakly magnetic	60151	214.0	218.0	4.0	<5		
			- 1% 1-3 mm scale stringer to bleby fine grained to medium fine grained pyrite							
			- very minor erratic quartz-carbonate ? veining							
			- can't put finer on exact contacts - definitely no good intrusive contacts. Possibly either a massive sediment bed carrying minor magnetite or silicified fine grained gabbro dyke.							

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND- 2

Date: Nov. 22, 1988

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
218.0	225.3	Altered Sediment	Pseudo brecciated-quartz-carbonate injected zone Grey, heterogeneous and bleached, remnant mm to cm scale bedding sub-parallel to 25° to core axis Overall 20% erratic, 3 mm to 1 cm scale white quartz carbonate veining and blotching Minor <1% mm scale stringer to fine grained disseminated pyrite Contact at 225.3 marked by blocky broken core	60152	218.0	221.0	3.0	<5		
				60153	221.0	225.3	4.3	6		
225.3	236.2	Contact Zone	Fine grained mafic (gabbro) dykes containing inclusions of or intruding bleached silicified sediment (same as section 218.0 - 225.3) Contact at 225.3 marked by broken core Sharp intrusive contact at 236.2 @ 55° to core axis 225.3- 231.0 Mafic Dyke Greeny-grey, fine grained massive and hard, locally speckled with 15% mm scale mafic crystals; weakly magnetic, trace mm scale veiny pyrite; Broken core at 231.0 can't get attitude of contact 231.0 - 236.2 Predominantly bleached sediment containing 6" and 1' wide mafic dykes contacts at 80° to core axis	60154	225.3	231.0	5.7	<5		
				60155	231.0	233.0	2.0	<5		
				60156	233.0	236.2	3.2	<5		
236.2	426.0 E.O.H.	Gabbro	Greeny-grey, medium grained to coarse grained, massive,homogeneous containing 25 to 30% black amphibole crystals - weak to moderately magnetic - minor local 2 to 6" scale very coarse grained leuco gabbroic zones - appear veinlike recrystalization the result of quartz-feldspar injection - lack of sulphide mineralization - gradational grain size coarsening in first 30 ft of unit downhole, chill of gabbroic intrusion 236.2 to 241.0 - blocky broken core 300.6 to 303.3 silicified zone or intermediate dyke; grey, medium grained, hard and massive containing 10% flattened mafic clots and 20% mm to cm scale feldspathic blotches; trace fine grained disseminated pyrite; contacts weakly sheared and broken	60157	236.1	240.2	4.0	7		
				N. A.	240.2	236.0	22.8			
				60158	236.0	266.0	3.0	<5		
				N. A.	266.0	279.0	13.0			
				60159	279.0	283.0	4.0	<5		
				N. A.	283.0	300.6	17.6			
				60160	300.6	303.3	2.7	<5		
				N. A.	303.3	323.0	19.7			
				60161	323.0	326.0	3.0	5		
				N. A.	326.0	338.0	12.0			
				60162	338.0	341.0	3.0	<5		
				N. A.	341.0	363.0	22.0			
				60163	363.0	366.0	3.0	7		
				N. A.	366.0	376.0	10.0			
				60164	376.0	379.0	3.0	7		
				N. A.	379.0	403.0	24.0			
				60165	403.0	406.0	3.0	11		
				N. A.	406.0	423.0	17.0			
				60166	423.0	426.0	3.0	7		

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL | DRILL HOLE NO. UND-3 | Date: December 7, 1988 | Page 1 of 4

CO-ORDINATES: 80+00W 72+00N
COLLAR ELEV.: 0.0
AZIMUTH: 352°
ANGLE: -50°
REMARKS:

CLAIM NO.: TB 990165
CORE SIZE: BQ
DATE STARTED: Nov. 16/88
COMPLETED: Nov. 18/88

LOGGED BY: Brian Nelson
DRILLED BY: Northwest Geophysics
SECTION: 80+00W
DEPTH: 308 ft.

HOLE SURVEYS (CORRECTED)

DEPTH				SAMPLE				ASSAYS		
FROM	TO	ROCK TYPE	DESCRIPTION	No.	FROM	TO	WIDTH	Au ppb		
0.0	29.5	Overburden		O. B.	0.0	29.5	29.5			
29.5	201.5	Clastic Sediment	Grey to slightly greenish grey, fine grained to finer medium grained, generally hard with local altered soft sections - locally bedded @ 50° to core axis - shearing (likely at bedding contacts) @ 45° to core axis - overall 5% white stringer quartz and minor carbonate veining sub-parallel to bedding - foliation and 25% erratic crosscutting stringers - moderate to locally strong sericite	N. A.	29.5	34.5	5.0			
			35.5 to 36.0 mini shear in sediment and quartz injection; 3% disseminated fine grained to medium grained pyrite	60167	34.5	37.5	3.0	6		
			37.5 to 38.4 Quartz vein - 2 to 3 cm wide white quartz and minor carbonate vein irregularly trending sub-parallel to core axis; trace disseminated pyrite	60168	37.5	38.4	0.9	7		
				60169	38.4	41.4	3.0	9		
				N. A.	41.4	58.2	16.8			
			58.2 to 60.7 Sericite-chlorite mini shear containing 10% mm to cm scale quartz veining predominantly parallel to shearing @ 55 to 60° to core axis; minor disseminated pyrite	60170	58.2	60.7	2.5	1125		
				60171	60.7	67.2	6.5	5		
			67.2 to 69.7 Sericite-chlorite altered zone; minor irregular quartz veining; 3% coarse grained disseminated bleby pyrite	60172	67.2	69.7	2.5	31		
			71.6 to 73.5 Sericite-chlorite altered zone; minor 1 to 3 mm scale white quartz veins; shearing at 40° to core axis; 5% coarse grained bleby pyrite	60173	69.7	73.5	3.8	20		
				60174	73.5	78.0	4.5	10		
				60175	78.0	84.0	6.0	27		
			93.4 to 94.5 40% semi-concordant to crosscutting 3mm to 3 cm wide white quartz and minor carbonate veining; 3% fine grained disseminated pyrite	60176	84.0	88.0	4.0	<5		
				60177	88.0	92.5	4.5	97		
				60178	92.5	95.0	2.5	21		

HOLE SURVEYS (CORRECTED)

DEPTH	DIP	DIRECTION
308'	-45°	

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			96.7 to 98.3 Well banded (bedded?) section, 25% 5mm to cm scale siliceous bands or concordant quartz veins; banding @ 45° to core axis; minor crosscutting white quartz veins on a 3 to 5 mm scale; trace disseminated medium grained pyrite	60179	95.0	96.7	1.7	<5		
				60180	96.7	98.3	1.5	<5		
				60181	98.3	104.0	5.7	<5		
			104.0 - 111.5 20% 1 to 5 mm scale white quartz veining predominantly @45° to 50° to core axis is sericitic sediment; minor erratic splotchy quartz veining; 2 to 3% medium grained disseminated pyrite	60182	104.0	108.0	4.0	<5		
				60183	108.0	111.5	3.5	<5		
				60184	111.5	116.0	4.6	<5		
				60185	116.0	121.0	5.0	5		
			111.5 - 150.0 altered clastic sediment, moderate sericite; 2-3% 1 mm to 1 cm scale greyish white quartz veining; 1% medium grained disseminated pyrite	N.A.	121.0	138.5	2.8			
				60186	138.5	140.5	2.0	13		
				N. A.	140.5	150.0	9.5			
			150.0 - 153.0 5% 2 to 5 mm scale erratic white quartz veining; 1% disseminated pyrite	60187	150.0	153.0	3.0	<5		
			153.0 - 157.5 intensely altered sediment; very strong sericite; 15% erratic mm to 3 cm scale white quartz veining, <1% disseminated medium grained pyrite	60188	153.0	157.5	4.5	<5		
			157.5 - 160.0 30% 1 to 5 mm scale white erratic quartz veining; trace disseminated pyrite	60189	157.5	160.0	2.5	5		
			163.0 - 196.5 10 to 15% very erratic mm to cm scale white quartz veining; trace to 1% medium grained disseminated pyrite; weakly foliated @ 55° to core axis	60190	160.0	163.0	3.0	5		
				60191	163.0	167.0	4.0	5		
				60192	167.0	171.0	4.0	<5		
			188.5 - 189.5 blocky broken core 195.5 - 196.5 15% erratic mm scale quartz veining	N. A.	171.0	182.3	11.3			
				60193	182.3	184.8	2.5	<5		
			196.5 - 201.5 sheared to brecciated sediment; gradation from moderately altered (sericitic sediment) to sheared brecciated-quartz injected sediment; outer limit of fault contact; 5% erratic quartz veining; trace disseminated pyrite; no sharp contacts starting to get appearance of light honey brown mineral as mm stringers	N. A.	184.8	192.5	7.7			
				60194	192.5	196.5	4.0	9		
				60195	196.5	201.5	5.0	9		
[redacted].5	220.0	Brecciated Shear Zone	Grey, fine grained to medium grained, hard to soft and very heterogeneous from sub-rounded to angular 0.5 to 1.0 cm scale relict grey sediment fragments suspended in a sericitic matrix to intensely sheared zones containing flattened sediment fragments in sericite (L to W ratio ≈ 4:1) - shearing at 50° to core axis	60196	201.5	205.5	4.0	20		
				60197	205.5	210.5	5.0	37		
				60198	210.5	215.5	5.0	16		
				60199	215.5	220.0	4.5	20		

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb
			- very minor quartz veining 1 to 2% - trace disseminated fine grained pyrite, patchy local silicification Both upper and lower contacts gradational over 1 to 2 ft. 201.5 - 202.2 30 to 40% soft honey brown mineral (sericite)?					
220.0	240.7	Fault Zone	Sheared fault breccia, grey to greeny grey and heterogeneous,very soft and crumbly, local very narrow 4 to 6" sub-zones that are hard (weakly siliceous); overall - angular to flattened (sheared) hard grey relict sediment fragments suspended in a very soft matrix; matrix of sericite +/- carbonate minor local mm scale stringers to light green mineral; trace disseminated pyrite; local very blocky broken sections; shearing at 40 to 55° to core axis 220.0 - 225.0 blocky, broken, very crumbly core 223.0 - 223.5 blocky crumbly section	60200 60220 60202 60203	220.0 225.0 230.0 235.0	225.0 230.0 235.0 240.7	5.0 5.0 5.0 5.7	7 5 17 19
240.7	308.3 E.O.H.	Sediment	Grey to greeny grey fine grained to finer medium grained and generally hard clastic sediment containing numerous narrow 6" to 3' wide brecciated to sheared quartz +/- carbonate flooded sub-zones. Overall <5% narrow 1 to 5 mm scale white quartz veining; trace disseminated fine grained to medium grained pyrite; lack of any sediment features or bedding contact. 240.7 to 254.7 fine grained hard grey sediment 5% 1 to 5 mm scale erratic grey white quartz veining; core quite blocky and broken; local shearing ≈ 30° to core axis 254.7 - 256.3 Quartz injected brecciated shear zone 30% erratic quartz veining; crumply like main flat zone up hole; undefined contacts 256.3 - 264.0 blocky broken core 264.0 - 288.0 grey fine grained to finer medium grained sediment; <5% 1 to 5 mm scale erratic white quartz veining; trace disseminated pyrite 275.0 - 0.3 ft section of quartz injected shear, associated sheared sericite and chlorite ≈ 20° to core axis	N. A. 60204 N. A.	240.7 254.7 256.3	254.7 256.3 288.0	14.0 1.6 31.7	 68

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 3

Date: December 7, 1988

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			288.0 - 289.5 Quartz carbonate injected mini shear mini shear-breccia zone; 15 - 20% stockwork white quartz veining; <5% yellow (carb?); sharp upper and lower contacts at 35° to core axis	60205	288.0	289.5	1.5	13		
			290.8 - 291.3 40 - 50% quartz and yellow carb? veining over section; veining at ± 60° to core axis	N. A.	289.5	293.5	4.0			
			293.5 - 295.0 moderate quartz-carbonate flooding	60206	293.5	296.0	2.5	7		
			At 295.9 2 cm wide white quartz vein cuts sediments at 80° to core axis	N. A.	296.0	303.3	7.3			
			At 296.5 3 to 4 cm wide sericite mini shear, strong shearing at 20° to core axis							
			At 304.0 mini shear at 20° to core axis off-sets mm scale white quartz veins with 2 cm displacement; trace very fine grained disseminated pyrite associated with shear	60207	303.3	308.3	5.0	5		
	308.0	End of Hole								

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 4A

Date: February 20, 1989

CO-ORDINATES: 62+43W 58+00N
COLLAR ELEV.: 0.0
AZIMUTH: 142°
ANGLE: -51°

CLAIM NO.: TB 990161
CORE SIZE: BQ
DATE STARTED: Nov. 22/88
COMPLETED: Nov. 22/88

LOGGED BY: Brian Nelson
DRILLED BY: Northwest Geophysics
SECTION: Off Section
DEPTH: 88 ft.

HOLE SURVEYS (CORRECTED)
DEPTH DIP DIRECTION

REMARKS: Hole not completed, either casing or drill shifted

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb
0.00	11.00	Overburden		O. B.	0.0	11.0	11.0	
11.00	12.00	Magnetite Hematitic Chert Iron Formation	Banded magnetite - hematitic chert on a 0.5 cm scale -core blocky and broken (drill induced)	N. A.	11.0	28.0		
12.00	25.80	Clastic Sediment	Grey to greeny-grey, generally finer medium grained with local fine grained sericite and chlorite sheared zones - local mini shears at 0 to 30° to core axis - minor 1 mm to 0.5 cm irregular white quartz-carbonate veining at ≈ 60° to core axis - overall trace fine grained disseminated pyrite, locally up to 5% pyrite over 5 to 10 cm Sharp contact at 25.80 @ 30° to core axis					
25.80	40.00	Magnetite Hematitic Chert Iron Formation	Alternate grey black and red beds on a 2mm to 0.5 cm scale; bedding generally @ 20 to 30° to core axis; beds frequently offset by mini-faults filled with specular hematite Overall 60% magnetite beds, 30% hematite-chert beds and 10% stockwork specular hematite veining Very minor 1 to 2mm scale white carbonate veining Lack of sulphide mineralization 29.30 to 30.30 - clastic sediment-bed @ 40° to core axis	60277 N. A.	28.0 31.0	31.0 40.0	3.0 9.0	<5
40.00	50.90	Clastic Sediment	Grey, finer medium grained to fine grained, massive to brecciated and hard Approximately half unit massive and half brecciated Upper and lower contacts brecciated along with a central 2 to 3' wide brecciated section Brecciated sections contain 30 to 50% 2 mm to 1 cm scale grey angular to sub-rounded siliceous fragments set in strongly chlorite +/- sericite cement - minor 1 to 2% erratic white 1 to 5mm scale quartz veinlets and blotches - trace to 1% fine grained disseminated pyrite - brecciated upper and lower contacts	60278 N. A.	40.0 46.0	46.0 50.9	6.0 4.9	5

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 4A

Date: February 20, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
50.90	56.50	Brecciated Quartz Veining	White to grey brecciated quartz veining in dark green stockwork chlorite; 50% quartz vein, 50% chlorite - minor white carbonate inclusions in quartz - lack of sulphide mineralization 50.90 to 52.90 - 75% quartz vein, 25% chlorite 52.90 to 55.50 - brecciated inter-vein sediment - chloritic 55.55 to 56.50 - 50% quartz vein, 50% chloritic	60279	50.9	52.9	2.0	<5		
				60280	52.9	56.5	3.6	<5		
56.50	66.00	Brecciated -Pseudo Brecciated Sediment	Grey to greeny grey, brecciated to pseudo brecciated and soft - strong chlorite - 1% fine grained disseminated pyrite - local minor 2 cm x 0.5 cm quartz lozenges 62.20 to 63.20 - very strong chlorite - 5% fine grained disseminated to bleby pyrite 63.20 to 66.00 - blocky-broken, chloritic core	60281	56.5	62.2	5.7	5		
				60282	62.2	63.2	1.0	<5		
				N. A.	63.2	73.0	9.8			
66.00	88.00	Clastic Sediment	Grey to greeny-grey, finer - medium grained to fine grained and quite soft - 5% very erratic white 1 mm to 1 cm scale quartz-carbonate veining - 1% fine grained to medium grained disseminated pyrite - moderate sericite	60283	73.0	78.0	5.0	<5		

MINGOLD RESOURCES INC.
Eastern District

Date: February 17, 1989

PROJECT: UNDERSILL
DRILL HOLE NO. UND-4

CO-ORDINATES: 62+73W, 58+23N
COLLAR ELEV.: +9.0 ft
AZIMUTH: 142°
ANGLE: -48°

CLAIM NO.: TB 990161
CORE SIZE: BQ
DATE STARTED: Nov. 23, 1988
COMPLETED: Nov. 26, 1988

LOGGED BY: Brian Nelson
DRILLED BY: Northwest Geophysics
SECTION: Off Section
DEPTH: 400.0 ft.

HOLE SURVEYS (CORRECTED)

DEPTH	DIP	DIRECTION
148 ft	-42°	
308 ft	-36°	

REMARKS: Drilling EW and NS VLF anomalies as well as chert-magnetic iron formation

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb
0.00	3.20	Chert-Magnetite Iron Formation	Black to grey, hard finely bedded chert magnetite iron formation plus interbedded clastic sediment - 1 to 5 mm scale beds folded (contorted) with bedding at 30° to core axis - locally pitted due to near surface weathering - major component is fine grained magnetite - somewhat sheared contact at 3.2 @ 30° to core axis	O. B. N. A.	0.00 3.20	3.2 20.0	3.2 16.8	
3.20	15.10	Clastic Sediment	Grey, finer medium grained, moderately soft containing 5% erratic 1 to 3mm scale white quartz-carbonate veinlets - moderate sericite - local concentrations up to 5% of tiny magnetite crystals - sharp contact at 15.10 @ 45° to core axis					
15.10	42.80	Magnetite Hematitic Chert Iron Formation	Alternating black to grey mm to cm scale magnetite rich and cherty beds, local sections (gradually increasing downhole through unit) containing up to 50% red 2mm to 1 cm wide hematitic chert beds crosscutting specular hematite veins on a 1 to 3 mm scale associated with the red hematitic chert. Beds appear to be sheared (rotated) towards the core axis plane, locally beds weakly folded to broken. Bedding predominantly at ± 40° to core axis - 5% mm to cm scale quartz-carbonate veining, veining erratic and predominantly crosscutting - minor interbedded clastic sediments and argillite on 4" to 1.5 ft. scale - lack of sulphide mineralization - sharp contact at 42.8 @ 45° to core axis	60253 N. A.	20.0 23.0	23.0 52.0	3.0 29.0	<5
42.80	70.50	Clastic Sediment	Greeny-grey, fine grained and moderately hard - 50% tiny blue to white quartz grains suspended in a very fine grained light green ground mass - 5% very erratic 1 to 5mm scale white quartz-carbonate veining - weakly magnetic - 1 to 2% very fine grained disseminated pyrite - sharp contact at 70.5 @ 50° to core axis - cm scale magnetite lozenges floating in medium grained sediment near 70.5 contact	60254 N. A.	52.0 55.0	55.0 70.5	3.0 15.5	<5

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND-4

Date: February 17, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
70.50	89.30	Magnetite Hematite Chert Iron Formation	Very similar to section 15.1 to 42.8 - quartz-carbonate veining is less common and mainly confined to within 3 to 4 ft of the uphole contact - 1 to 3mm scale specular hematite veinlets crosscut bedding sub-parallel to 90° to core axis - bedding contacts at 30 to 50° to core axis 87.50 to 88.00 - 50% banded-blotchy white quartz-carbonate veining	60255	70.5	73.0	2.5	<5		
				N. A.	73.0	82.0	9.0			
				60256	82.0	85.0	3.0	<5		
				N. A.	85.0	106.0	21.0			
89.30	118.40	Clastic Sediment	Very similar to section 42.80 to 70.50 - grey, fine medium grained and weakly magnetic - 5% erratic 2mm to 1 cm scale quartz-carbonate veining - trace to 1% very fine grained disseminated pyrite - sharp contact at 89.3 @ 50° to core axis - broken core marks 118.4 contact	60257	106.0	111.0	5.0	<5		
				N. A.	111.0	123.0	12.0			
118.40	178.60	Magnetite Hematitic Chert Iron Formation	Very similar to sections 15.10 to 42.80 and 70.50 to 89.30 - appears to have a somewhat higher hematite chert and specular hematite content than previous sections - beds also more contorted, folded and brecciated - 5% concordant and crosscutting mm to cm white to grey quartz and quartz-carbonate veining - bedding quite variable from 30 to 60° to core axis 144.80 to 145.90 - clastic sediment bed containing 40% 5 mm to 2 cm scale quartz veining 165.20 to 165.70 - interbedded clastic sediment - sharp upper and low contacts @ 45° to core axis	60258	123.0	126.0	3.0	<5		
				N. A.	126.0	135.0	9.0			
				60159	135.0	138.0	3.0	<5		
				N. A.	138.0	162.0	24.0			
				60260	162.0	166.0	4.0	<5		
				N. A.	166.0	173.6	7.6			
				60261	173.6	178.6	5.0	<5		
178.60	400.00 E.O.H.	Clastic Sediment	Interbedded finer, medium grained clastic sediment and minor very fine grained argillite - quite massive and hard - overall minor 1 to 2% erratic white to grey 1 to 5mm scale quartz veining - trace to 1% fine grained to medium grained disseminated pyrite - sharp contact at 178.6 @ 30° to core axis 180.60 to 181.60 - argillite, finely bedded on a 1 to 3mm scale - sharp upper and low contacts at 20° to core axis 181.60 to 187.00 - blocky broken core - strong chlorite +/- sericite 203.20 to 204.70 - brecciated- pseudo brecciated argillite; greeny-grey soft with diffuse contacts; questionable breccia; trace disseminated medium grained pyrite	60262	178.6	181.6	3.0	<5		
				N. A.	181.6	202.5	20.9			
				60263	202.5	205.5	3.0	<5		

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 4

Date: February 17, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			205.10 to 210.2 - argillite, fine grained, local weak vuggy texture -5% erratic mm scale white quartz-carbonate veinlets -minor cm scale quartz veinlets @ 60 to 80° to core axis -contact at 210.2 @60° to core axis	60264	205.5	210.5	5.0	<5		
				N. A.	210.5	217.0	6.5			
			210.20 to 227.20 -finer medium grained to medium grained clastic sediment -1% medium grained disseminated pyrite	60265	217.0	220.0	3.0	<5		
				N. A.	220.0	236.1	16.1			
			227.20 to 228.60 -argillite, soft, very fine grained -strong sericite +/- chlorite -very sharp contact at 227.70 @ 30° to core axis							
			At 236.60 - 5mm splash of chalcopyrite	60266	236.1	237.6	1.5	<5		
			252.50 to 261.00 -medium grained clastic sediment containing local 2" to 3' wide very fine grained micaceous(ser +/- chl) argillite (or possibly sheared bedding contacts) at ≈50° to core axis -overall 5% erratic 2mm to 2 cm scale white quartz veining -1% medium grained disseminated pyrite -local mini faults offset quartz veins by up to 1 cm -local vuggy quartz-carbonate veining	N. A.	237.6	255.0	17.4			
				60267	255.0	258.0	3.0	<5		
				60267	258.0	261.0	3.0	<5		
				N. A.	261.0	273.0	12.0			
			At 260.80 - 2 to 3mm wide pyrite stringer parallels bedding contacts @ 45° to core axis							
			273.00 to 276.50 -minor local vuggy quartz-carbonate veining on a 1mm to 2 cm scale -trace disseminated pyrite	60269	273.0	276.5	3.5	<5		
				N. A.	276.5	287.0	11.5			
			287.00 to 287.70 -3cm wide quartz carbonate veining -contains 25% coarse grained disseminated pyrite	60270	287.0	287.7	0.7	<5		
				N. A.	287.7	295.0	7.3			
			295.20 to 296.50 -50% sheared argillite containing 3mm to cm scale white quartz-veining parallel to shearing @ 45° to core axis -disseminated to bleby pyrite associated with quartz veining	60271	295.0	297.0	2.0	<5		
				N. A.	297.0	326.5	29.5			
			At 327.70 -0.5 cm wide white quartz vein @65° to core axis, contains 40 to 50% coarse grained bleby pyrite	60272	326.5	331.5	5.0	<5		
				N. A.	331.5	346.0	14.5			

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 4

Date: February 17, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			- vein occurs at bedding contact between finer medium grained clastic sediment and very fine grained argillite (sericite and chlorite) clastic-clastic sheared bedding contacts							
			At 330.80- 60% coarse grained 0.5 cm scale pyrite blebs and cubes over 2 cm in massive chlorite +/- sericite	60273	346.0	350.0	4.0	<5		
				N. A.	350.0	364.0	14.0			
			At 357.80- 2 cm wide white quartz vein	60274	364.0	368.0	4.0	<5		
			361.20 to 362.20- massive chlorite							
			375.00 to 400.00- blocky broken core -looks drill induced - (fault rock?) -minor 2mm to 2 cm scale quartz-carbonate veining -overall trace to 1% medium grained disseminated pyrite -locally up to 5% disseminated pyrite over 5 to 10 cm	60275	384.0	388.0	4.0	<5		
				N. A.	388.0	397.0	9.0			
			397.00 to 397.30-4 cm wide quartz-carbonate vein parallels core axis, brecciated 1-2 cm scale chloritic fragments form downhole contact zone							
			397.30 to 400.00-fault (intrusive) breccia -heterogeneous zone, mixture brecciated fragments & sediment -breccia consists of fine grained 2 mm to 1 cm scale angular chloritic fragments set in fine grained sericite and carbonate cement -lack of sulphides	60276	397.0	400.0	3.0	10		

MINGOLD RESOURCES INC.
Eastern District

Date: February 27, 1989

PROJECT: UNDERSILL DRILL HOLE NO. UND - 5

CO-ORDINATES: 60+00W 56+50N
COLLAR ELEV.: 0.0
AZIMUTH: 142°
ANGLE: -48°

CLAIM NO.: TB 990161
CORE SIZE: BQ
DATE STARTED: Nov. 19/88
COMPLETED: Nov. 22/88

LOGGED BY: Brain Nelson
DRILLED BY: Northwest Geophysics
SECTION: Off Section
DEPTH: 538.0 ft.

HOLE SURVEYS (CORRECTED)
DEPTH DIP DIRECTION
538 ft -31°

REMARKS: Drilling NNE trending VLF anomaly and chert-magnetite iron formation.

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
0.00	49.00	Overburden		O.B.	0.0	49.0	49.0			
49.00	181.20	Sediment		N.A.	49.0	76.0	27.0			
			Interbedded medium grained clastic sediment and sericitic argillite Grey, fine grained to medium grained predominantly hard with local narrow soft sericitic zones (shears) - narrow shears on a 10 to 20 cm scale with shearing at 25 to 30° to core axis - rare bedding contacts between fine grained and medium grained (quartz grain rich) beds - overall 1 to 3% 1 mm to 2 cm scale white erratic quartz veining - overall trace to 1% fine grained to medium grained disseminated pyrite							
			49.0 to 129.7 - predominantly medium grained clastic sediment interbedded with narrow sericitic argillite							
			At 56.5 - sharp contact between uphole medium grained sediment and fine grained sediment - contact @35° to core axis - strong sericite near contact - weakly sheared contact							
			62.0 to 62.7 - mini shear in fine grained sediment - shearing @ 25 to 30° to core axis - strong sericite and minor mm scale quartz veining parallel to shearing - 1% disseminated fine grained pyrite							
			At 73.6 - 1 cm wide white quartz vein cuts fine grained sediment @ 45° to core axis							
			75.9 to 76.2 - mini sericite -chlorite shear plus minor blue-grey quartz-veining parallel to shearing @ 25° to core axis	60208	76.0	80.0	4.0	6		
			- trace - 1% disseminated pyrite	N. A.	80.0	99.8	19.8			
			At 79.6 - 2 cm wide quartz vein @ 70° to core axis							

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 5

Date: February 27, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			At 80.8 - Sharp bedding contact between fine grained and medium grained sediment, contact @ 45 to 50° to core axis - hint of fining uphole (Younging to north)							
			86.7 to 87.5 - massive fine grained sericite (argillite bed?) trace disseminated pyrite							
			99.8 to 101.0 - sheared argillite? bed - strong sericite and chlorite - minor 0.5 cm scale white quartz veining parallel to shearing @ 35° to core axis - 1% medium grained disseminated pyrite associated with quartz vein	60209	99.8	104.3	4.5	<5		
			104.3 to 105.1 - quartz vein - white quartz containing 10% veining sediment inclusions - trace fine grained disseminated pyrite - sharp contacts at 40 to 45° to core axis	60210	104.3	105.1	0.8	<5		
				60211	105.1	108.0	2.9	<5		
				N. A.	108.0	116.0	8.0			
				60212	116.0	120.0	4.0	6		
				N. A.	120.0	130.7	10.7			
			129.7 to 135.7 - Argillite - very fine grained, soft and grey, strong sericite - <1% 2 to 3mm scale white quartz veins @ 60° to core axis - 1% medium grained disseminated pyrite	60213	130.7	135.7	5.0	<5		
				N. A.	135.7	145.1	9.4			
			135.7 to 142.2 - Interbedded Argillite - clastic sediment on a 1 to 3 ft scale - sharp bedding contacts at 45 - 50° to core axis - trace to 1% fine grained to medium grained disseminated pyrite							
			142.2 to 148.1 - Argillite - strong sericite - locally banded @ 40° to core axis - medium grained to coarse grained bleby to cubic pyrite within 6" of downhole contact - sharp contact at 148.1 @ 45° to core axis	60214	145.1	148.1	3.0	<5		
				N. A.	148.1	158.5	10.4			
			148.1 to 178.1 - Interbedded clastic sediment and argillite - bedding on a 6" to 3' scale - argillite beds well foliated due to planar alignment of sericite crystals - bedding contacts and foliation at 45° to core axis	60215	158.5	161.5	3.0	5		
				N. A.	161.5	176.0	14.5			
				60216	176.0	179.0	3.0	7		
				N. A.	179.0	181.2	2.2			

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			178.1 to 180.6 - clastic sediment bed (excellent example of medium grained sediment) - 50% mm scale quartz grains set in a fine grained moderately sericitic ground mass - displays a gradational fining? uphole through unit (tops to north?) - very sharp upper and lower contacts at 50° to core axis							
181.20	186.30	Iron Formation	Black to grey, fine grained hard and very well bedded on a 5 mm to 2 cm scale, alternate very fine grained magnetite beds and fine grained to finer medium grained grey cherty to clastic sediment beds, 60% magnetite beds, 40% clastic or cherty sediment beds - bedding @ 45° to core axis - minor 1 to 3 mm scale white concordant quartz veining - trace very fine grained disseminated pyrite	60217	181.2	186.3	5.1	<5		
186.30	193.10	Clastic Sediment	Greeny-grey, finer medium grained and moderately hard - contains a couple of 5 mm to 3 cm wide magnetite beds, bedding contacts @ 50° to core axis - minor 1 to 3mm scale erratic white quartz veining - trace fine grained disseminated pyrite - sharp contact at 193.1 @ 45° to core axis	60218 N. A.	186.3 189.3	189.3 195.5	3.0 6.2	5		
193.10	201.50	Iron Formation	Black to grey, fine grained, hard and well bedded - Iron Formation interbedded with 6" to 1' scale clastic sediment beds (85% brecciated iron formation, 15% clastic sediment beds) - sharp bedding contacts @ 45 to 50° to core axis - overall 50 to 70% very fine grained magnetic - 2% erratic 1 to 5 mm scale white quartz veining - trace disseminated fine grained pyrite							
			193.1 to 194.1 - very finely bedded iron formation, bedding on a 1 to 2 mm scale @ 50° to core axis							
			194.1 to 195.2 - clastic sediment plus 10% weakly contorted magnetite beds - contact at 195.2 @ 50° to core axis							
			195.2 to 198.1 - well bedded iron formation on a mm to cm scale, alternate magnetite rich and chert? or clastic sediment beds - sharp bedding contact at 50° to core axis; 1 - 2% erratic white 1 to 2 mm scale quartz-carbonate veinlets - mini-faulting sub-parallel to 45° to core axis offsets bedding on a mm to cm scale; trace disseminated pyrite	60219 N. A.	195.5 198.5	198.5 203.5	3.0 5.0	<5		

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 5

Date: February 27, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			198.1 to 201.5 - contorted-brecciated mixture of magnetite iron formation and clastic sediment, 3 - 5% white quartz-carbonate veining at 20° to core axis; mini-faulting noted - bedding rotated towards core axis bedding at ≈ 30° to core axis							
201.50	206.30	Clastic Sediment	Greeny-grey, fine grained, quite hard containing 10 to 15% mm to cm scale contorted black magnetite beds, trace disseminated pyrite - very minor white mm scale quartz-carbonate veining - gradational contact at 201.5 - sharp contact at 206.3 @ 50° to core axis	60220	203.5	207.5	4.0	<5		
206.30	211.30	Iron Formation	Interbedded magnetite iron formation and clastic sediment 75% magnetite iron formation, 25% clastic sediment beds. Bedding contacts at 50 to 60° to core axis; magnetite iron formation finely bedded on a 1 to 2 mm scale. Unit contains a 6" wide bed and 1.5 ft wide bed of clastic sediment; overall trace fine grained disseminated pyrite; 2 to 3% erratic 1 to 3 mm scale quartz-carbonate veining; local red hematitic beds; contact at 211.3 @ 55° to core axis							
			At 208.0 - 3 cm wide quartz vein associated with magnetite-clastic bed contact, minor disseminated pyrite	60221 60222	207.5 208.5	208.5 211.3	1.0 2.8	<5 <5		
211.30	273.30	Interbedded Magnetite Iron Formation and Clastic Sediment	Predominantly ≈ 80%, greeny grey clastic sediment - argillite interbedded with 20% individual black 1 to 5" scale magnetite sections - sharp bedding contact from 50 to 65° to core axis - overall magnetite lean section - magnetite sections composed of mm scale beds - local mini faulting sub-parallel to core axis - minor (1%) mm to cm scale white to grey erratic quartz veining - trace fine grained disseminated pyrite	N. A.	211.3	264.0	53.0			
			233.8 to 235.5 - interbedded argillite and mm to cm scale black fine grained magnetite beds - 60% argillite, 40% magnetite - bedding @ 45° to core axis							
			235.5 to 242.9 - medium grained clastic sediment - very minor bedded magnetite - minor erratic 1 mm to 1 cm scale grey-white quartz veining							
			242.9 to 246.4 - bedded magnetite rich section - bedding @ 40-60° to core axis - locally mini-folding (contorting) of beds; overall 40% magnetite, 60% sediment; trace disseminated medium grained cubic pyrite							

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 5

Date: February 27, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			243.5 - 243.8 - 30% 2 to 3 mm scale quartz-carb veining parallel to bedding @ 60° to core axis							
			246.4 to 254.0 - Finer medium grained clastic sediment; very minor mm to cm scale erratic quartz-carbonate veining - trace to 1% fine grained disseminate pyrite; sharp contact at 254.0 @ 45° to core axis							
			254.0 to 256.2 - argillite, strong sericite - 2 cm wide magnetite bed at 254.0 contact							
			256.2 to 259.5 - clastic sediment bed - trace fine grained disseminated pyrite							
			259.5 to 273.2 - interbedded magnetite rich and argillite beds on a mm to a 20 cm scale - bedding contacts at 40 to 55° to core axis - 3% very erratic white quartz-carbonate veining - locally 1 to 3mm stringer pyrite associated with veining							
			At 264.5 - 1 to 2 mm scale specular hematite beds, mm scale disseminated pyrite beds hosted by magnetite beds	60223	264.0	266.0	2.0	<5		
				60224	266.0	267.5	1.5	<5		
			At 272.0 - mm spec of chalcopyrite	60225	267.5	273.2	5.7	<5		
273.2	300.2	Vuggy Argillite	Vuggy mini-faulted argillite - vuggy sections on a 1 to 5 ft scale	60226	273.2	277.5	4.3	<5		
			- overall 3% white to grey folded, faulted erratic grey quartz, 5% 1 to 3 cm scale coarse grained white quartz-carbonate veining - veining sub-parallel to 45° to core axis	N. A.	277.5	380.0	2.5			
			At 275.0 - coarse grained vuggy quartz-carbonate vein trends sub-parallel (15°) to core axis							
			277.5 to 280.8 -3% 1 to 3mm erratic quartz-carbonate veining							
			280.8 to 281.6 -vuggy section	60227	280.8	284.8	4.0	<5		
			281.6 to 294.3 -fine grained sediment containing 2 to 3% mm to 3 cm scale erratic quartz carbonate veining	N. A.	284.8	294.3	9.3			
			292.0 to 294.3 -blocky broken core							
			294.3 to 300.3 -vuggy section -10 to 15% erratic 1mm to 3 cm scale coarse grained vuggy quartz-carbonate veining							
			Comment: This vuggy section likely fault induced, possibly VLF conductor							

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
300.3	305.2	Magnetite Hematite Iron Formation	Alternate black to dark grey magnetic beds and red hematitic chert beds - bedding on a 3mm to 10cm scale at 40° to core axis - locally bedding folded and sub-parallel to core axis - hematitic chert beds tend to be boudinaged and broken - 3% erratic 1 to 3mm scale white quartz-carbonate veinlets - trace pyrite - At 300.3 contact core broken Sharp contact at 305.2 @ 50° to core axis	60229	300.3	305.2	4.9	<5		
305.2	309.4	Argillite	Greeny - grey, very fine grained soft moderately foliated @ 55° to core axis - strong sericite and chlorite - local minor pyrite 305.0 to 308.0 - 10% 2mm x 2 cm pyrite lenses (boudinaged veins) parallel to foliation 308.0 to 308.7 - banded magnetic-hematitic chert iron formation - sharp contact at 309.4 @ 55° to core axis	60230 N. A.	305.2 308.0	308.0 339.0	2.8 31.0	<5		
309.4	335.0	Clastic Sediment	Greeny grey, finer medium grained and hard locally containing 3" to 1 ' scale bedded magnetite iron formation - very minor 2 mm to 5 mm quartz carbonate veining at 30° to 80° to core axis - sharp contact at 335.0 @ 45° to core axis 318.4 to 319.3 - magnetite iron formation and fine grained specular hematite - bedding on a 1 to 2 mm scale at 55° to core axis 323.2 to 324.0 - magnetite iron formation containing one 3 to 5mm wide quartz (chert) hematite vein (bed?) parallel to bedding @ 55° to core axis 325.0 to 326.0 - interbedded magnetite iron formation and clastic sediment, minor boudinaged hematitic-chert beds							
335.00	364.10	Magnetite Hematite Chert Iron Formation	Black to grey to red, fine grained, hard and well banded (bedded) at 30 to 40° to core axis; overall 80% magnetite beds and 20% hematitic chert beds. -bedding generally on a 1 to 5 cm scale; hematitic chert beds tend to be broken (boudinaged) and locally contorted, fine grained specularite associated with hematitic beds. -bedding at low angle to core axis (30° or less) result of shearing and rotating toward plane of core							

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 5

Date: February 27, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			axis (tectonic induced bedding orientation) -very minor interbedding of clastic sediment -sharp contact at 364.1 @40° to core axis	60231 N. A.	339.0 342.5	342.5 349.5	3.5 7.0	<5		
			349.5 to 351.5 - 20% very erratic to blotchy white 1 to 3 cm scale carbonate veining	60232 N. A.	349.5 351.5	351.5 361.0	2.0 9.5	<5		
364.1	372.6	Clastic Sediment	Greeny-grey, finer medium grained and hard containing 2% 1 mm to 1 cm scale erratic quartz carbonate veining; trace fine grained disseminated pyrite - contact at 372.6 @ 50° to core axis 371.6 to 372.6 - blocky broken core - looks drill induced	60233 N. A.	361.0 364.0	364.0 392.0	3.0 28.0	<5		
372.6	405.6	Magnetite Hematite Chert Iron Formation	Bedded magnetite - hematitic chert on 3 mm to 2 cm scale; strong bedding and foliation fabric @ 50° to core axis; very similar to section 335.0 to 364.1 - minor interbedded clastic sediment on a 2 to 4" scale; sharp contact at 405.6 @ 55° to core axis							
			386.8 to 387.3 - brecciated iron formation - 20% very erratic stockwork white carbonate veining	60234 60235	392.0 397.0	397.0 402.0	5.0 5.0	<5 <5		
			392.5 to 404.0 - 3 to 5% 2mm to 1 cm scale white quartz veining parallel to bedding at 50° to core axis; trace medium grained disseminated pyrite	60236	402.0	405.6	3.6	<5		
405.6	538.0 E.O.H.	Sheared Clastic Sediment	Grey, finer medium grained, hard and well banded to sheared @ 55 to 60° to core axis - distinct light to dark grey banding on a 5 mm to 1 cm scale; light grey bands predominantly siliceous - minor erratic to concordant white quartz veining - overall 1% medium grained disseminated pyrite to disseminated pyrite trains parallel to shearing - locally up to 5% disseminated pyrite over 10 cm sections	60237 60238 60239 60240 60241	405.6 410.6 415.4 420.0 425.0	410.6 415.4 420.0 425.0 428.0	5.0 4.8 4.6 5.0 3.0	<5 17 6 <5 36		
			At 427.8 - very irregular 2 to 3 cm scale white carbonate vein							
			428.0 to 432.0 - mm scale contorted bedding at low angle to core axis; 5 to 10% erratic blue-grey quartz veining - 2 to 3% fine grained to medium grained disseminated pyrite	60242	428.0	432.0	4.0	270		
			432.0 to 433.3 - quartz vein - white to locally blueish grey - 5% irregular inclusions of sediment - trace pyrite - broken contacts	60243	432.0	433.3	1.3	238		

MINGOLD RESOURCES INC.
Eastern District

PROJECT: UNDERSILL DRILL HOLE NO. UND - 5

Date: February 27, 1989

DEPTH FROM	DEPTH TO	ROCK TYPE	DESCRIPTION	SAMPLE No.	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	ASSAYS Au ppb		
			433.6 to 434.6 - quartz vein - grey to purpleish - 20% inclusions of sediment host - trace disseminated pyrite - irregular contacts							
			463.1 to 463.5 - quartz vein - bluey grey - sheared? vein, black banded crystals aligned sub-parallel to core axis - sharp upper and lower contacts at 50° to core axis	60248	463.0	463.5	0.5	1644		
				N. A.	463.5	492.5	29.0			
				60249	492.5	494.5	2.0	8		
				N. A.	494.5	506.0	11.5			
			492.5 to 494.5 - 5% 2mm to 2 cm bluey grey quartz veining, trace pyrite	60250	506.0	508.0	2.0	5		
				N. A.	508.0	520.9	12.9			
			520.9 to 521.2 - quartz vein, white, 20% wispy inclusions of host - sharp contacts at 60° to core axis	60251	520.9	522.4	1.5	85		
				60252	522.4	527.4	5.0	<5		
				N. A.	527.4	538.0	10.6			

APPENDIX IV

ANALYTICAL RESULTS - BONDAR CLEGG & CO. LTD.

BONDAR-CLEGG

May 30, 1988

Bondar-Clegg is pleased to offer the following analytical services:

Soil Samples

Sample Preparation

1. The entire field sample will be dried at 60 oC.

2. The dried material will be screened for the -80 mesh particle fraction.

3. The -80 mesh fraction will be homogenized, bagged and labelled.

Geochemical Analysis

1. Determination of Au using Fire Assay Lead Collection-Flame Atomic Absorption measurement, test sample weight of 30 g, detection level of 5 ppb.

2. Determination of Ag, Cu, Pb, Zn and As using a HNO3/HCl extraction-Direct Current Plasma Emission measurement, detection levels of 0.5, 1, 1, 1 and 5 ppm.

Rock Samples

Sample Preparation

1. The entire field sample will be reduced to -10 mesh using Jaw and Cone Crushers.

2. A 300 g representative split of the -10 mesh material will be obtained using a Jones Riffle Splitter.

3. The representative split will be pulverized to -150 mesh using a ring and puck pulverizer.

4. The pulverized material will be homogenized, bagged and labelled.

Geochemical Analysis

1. Determination of Au using Fire Assay Lead Collection-Flame Atomic Absorption measurement, test sample weight of 30 g, detection level of 5 ppb.

2. Determination of Ag, Cu, Pb, Zn and As using a HNO3/HCl extraction-Direct Current Plasma Emission measurement, detection levels of 0.5, 1, 1, 1 and 5 ppm.

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Geochemical Lab Report

REPORT: 088-51271.0 | PROJECT: 253 | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Pb PPM	As PPM	Au PPB	Ag PPM
UND 1001		24	52	13	17	73	0.1
UND 1002		13	29	11	7	<5	0.1
UND 1003		14	36	12	12	8	<0.1
UND 1004		13	14	5	7	<5	<0.1
UND 1005		15	36	21	14	<5	<0.1
UND 1006		17	32	12	4	<5	<0.1
UND 1007		13	27	9	<2	<5	<0.1
UND 1008		17	40	13	9	<5	<0.1
UND 1009		8	41	7	2	<5	0.2
UND 1010		11	45	12	9	19	<0.1
UND 1011		5	14	5	<2	<5	<0.1
UND 1012		10	26	13	11	<5	<0.1
UND 1013		18	25	17	8	<5	0.1
UND 1014		20	51	21	154	7	<0.1
UND 1015		11	16	16	3	<5	<0.1
UND 1016		20	34	26	73	<5	<0.1
UND 1017		31	58	27	65	6	0.1
UND 1018		31	20	9	4	<5	0.1
UND 1019		31	34	12	12	<5	0.1
UND 1020		40	112	17	55	<5	<0.1
UND 1021		35	65	10	43	<5	<0.1
UND 1022		12	32	13	5	28	<0.1
UND 1023		36	56	14	8	<5	<0.1
UND 1024		8	21	11	4	<5	<0.1
UND 1025		43	17	11	18	7	<0.1
UND 1026		15	26	13	6	<5	0.2
UND 1027		4	10	13	2	<5	<0.1
UND 1028		11	18	9	2	<5	<0.1
UND 1029		20	65	18	10	5	<0.1
UND 1030		16	36	19	4	6	0.1
UND 1031		37	72	23	24	<5	<0.1
UND 1032		16	15	9	2	<5	<0.1
UND 1033		10	13	8	<2	<5	<0.1
UND 1034		7	20	12	3	<5	0.1
UND 1035		15	19	8	4	<5	<0.1
UND 1036		51	41	9	5	<5	<0.1
UND 1037		24	36	14	7	<5	<0.1
UND 1038		37	79	31	34	250	<0.1
UND 1039		5	14	5	2	12	<0.1
UND 1040		16	24	8	6	<5	<0.1

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Geochemical Lab Report

REPORT: UBB-51271.0 | PROJECT: 253 | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Pb PPM	As PPM	Au PPB	Ag PPM
UND 1041		10	24	7	2	<5	<0.1
UND 1042		17	19	10	8	<5	<0.1
UND 1043		20	26	6	6	<5	<0.1
UND 1044		13	11	2	2	<5	<0.1
UND 1045		37	413	30	74	15	0.1
UND 1046		33	29	12	7	<5	<0.1
UND 1047		17	37	12	2	<5	<0.1
UND 1048		12	27	5	2	<5	<0.1
UND 1049		7	24	10	<2	<5	<0.1
UND 1050		4	23	6	3	<5	<0.1
UND 1051		33	32	9	9	<5	<0.1
UND 1052		11	21	5	4	5	<0.1
UND 1053		11	17	3	4	<5	<0.1
UND 1054		12	20	6	3	<5	<0.1
UND 1055		10	22	5	4	<5	<0.1
UND 1056		15	30	8	2	13	<0.1
UND 1057		47	66	10	13	<5	<0.1
UND 1058		88	31	5	8	<5	<0.1
UND 1059		11	25	6	2	<5	<0.1
UND 1060		8	27	5	26	5	<0.1
UND 1061		11	30	5	22	51	<0.1
UND 1062		17	43	8	2	<5	<0.1
UND 1063		13	39	7	4	6	<0.1
UND 1064		11	38	6	2	<5	<0.1
UND 1065		7	24	6	2	<5	<0.1
UND 1066		27	52	10	<2	<5	<0.1
UND 1067		27	34	6	2	<15	0.1
UND 1068		14	59	5	3	10	<0.1
UND 1069		90	107	11	12	<5	0.1
UND 1070		9	25	5	4	<5	<0.1
UND 1071		23	40	7	6	<5	<0.1
UND 1072		18	30	5	2	<5	<0.1
UND 1073		17	71	10	5	12	<0.1
UND 1074		9	38	6	3	<5	<0.1
UND 1075		9	32	5	9	<5	<0.1
UND 1076		17	38	7	4	<5	<0.1
UND 1077		22	77	12	5	<5	<0.1
UND 1078		12	61	7	12	<5	<0.1
UND 1079		6	19	5	4	5	<0.1
UND 1080		60	36	10	6	8	<0.1

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Geochemical Lab Report

REPORT: 088-51271.0 | PROJECT: 253 | PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Pb PPM	As PPM	Au PPB	Ag PPM
UND 1081		77	87	9	13	102	<0.1
UND 1082		21	41	7	5	<5	<0.1
UND 1083		80	117	12	31	<5	0.1
UND 1084		63	159	6	6	7	<0.1
UND 1085		130	159	4	9	<5	<0.1
UND 1086		44	128	7	8	<5	<0.1
UND 1087		46	54	5	9	5	<0.1
UND 1088		9	24	8	5	<5	<0.1
UND 1089		8	20	10	9	<5	<0.1
UND 1090		15	24	6	6	<5	<0.1
UND 1091		36	45	9	11	<5	<0.1
UND 1092		19	27	5	9	<5	<0.1
UND 1093		16	16	4	10	<5	<0.1
UND 1094		16	27	13	22	5	<0.1
UND 1095		28	40	22	6	<5	<0.1
UND 1096		19	40	7	4	<5	<0.1
UND 1097		32	29	3	7	<5	<0.1
UND 1098		16	41	12	3	7	<0.1
UND 1099		37	81	21	196	<5	<0.1
UND 1100		24	22	12	13	<5	<0.1
UND 1101		11	24	9	12	<5	<0.1
UND 1102		49	16	4	7	6	<0.1
UND 1103		15	22	7	7	<5	<0.1
UND 1104		33	40	9	12	<5	0.1
UND 1105		8	22	5	5	<5	<0.1
UND 1106		18	21	9	12	6	<0.1
UND 1107		17	26	5	8	<5	0.1
UND 1108		5	28	14	7	<5	<0.1
UND 1109		5	22	5	3	6	<0.1
UND 1110		12	23	9	10	13	<0.1
UND 1111		15	12	9	9	6	<0.1
UND 1112		19	32	12	10	<5	0.1
UND 1113		19	66	12	16	6	<0.1
UND 1114		12	26	5	7	<5	0.1
UND 1115		34	72	16	17	12	<0.1
UND 1116		9	18	6	10	5	<0.1
UND 1117		9	22	11	10	<5	<0.1
UND 1118		50	37	22	46	7	0.1
UND 1119		24	69	10	22	<5	<0.1
UND 1120		58	83	6	33	<5	<0.1

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Geochemical Lab Report

REPORT: UBC-S12V1.0 | PROJECT: 253 | PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Pb PPM	As PPM	Au PPB	Ag PPM
UND 1121		28	55	9	3	6	<0.1
UND 1122		15	61	9	4	<5	<0.1
UND 1123		14	61	9	3	5	<0.1
UND 1124		8	30	4	2	<5	<0.1
UND 1125		3	12	3	2	<5	<0.1
UND 1126		53	39	3	3	<5	0.1
UND 1127		67	128	5	3	<5	0.2
UND 1128		15	62	9	2	5	0.1
UND 1129		9	39	7	2	<5	<0.1
UND 1130		19	49	8	3	<5	<0.1
UND 1131		7	32	5	<2	<5	<0.1
UND 1132		16	71	8	3	<5	<0.1
UND 1133		12	42	8	2	<5	<0.1
UND 1134		14	42	7	3	<5	<0.1
UND 1135		19	61	9	2	<5	<0.1
UND 1136		21	30	4	2	<5	<0.1
UND 1137		32	49	12	14	8	<0.1
UND 1138		12	51	7	<2	<5	<0.1
UND 1139		18	28	6	2	6	0.1
UND 1140		18	21	4	<2	<5	<0.1
UND 1141		25	62	4	4	6	<0.1
UND 1142		18	55	6	4	14	<0.1
UND 1143		22	70	11	2	<5	<0.1
UND 001681		6	13	<0.1	5	21	128
UND 001682		5	16	<0.1	3	<2	<5
UND 001683		7	15	<0.1	4	4	<5
UND 001684		14	28	0.1	5	18	<5
UND 2163		21	50	<0.1	9	111	<5
UND 2164		4	19	<0.1	7	4	<5
UND 2165		39	24	<0.1	5	7	<5

Bondar-Clegg & Company Ltd.
3430 Canotek Road
Ottawa, Ontario
K[illegible]
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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-[illegible]72.0 | PROJECT: 253 | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
62210		14	7	<0.1	<2	4	14
62211		19	11	<0.1	<2	3	<5
62212		7	11	<0.1	<2	6	<5
62213		6	4	<0.1	<2	3	<5
62214		11	30	<0.1	11	49	81
62215		7	10	<0.1	<2	2	8
62216		11	21	<0.1	<2	2	<5
62217		15	6	<0.1	<2	2	<5
62218		7	9	<0.1	<2	<2	<5
62219		6	5	<0.1	<2	<2	<5
62220		6	5	<0.1	<2	<2	<5
62221		10	18	<0.1	<2	4	<5
62222		6	5	<0.1	<2	13	<5
62223		18	9	<0.1	<2	4	<5
62224		12	6	<0.1	<2	<2	<5
62225		9	13	0.1	11	2	<5
62226		9	6	<0.1	10	<2	<5
62227		137	13	0.1	3	44	41
62228		92	38	0.4	6	1918	3029
62229		17	18	<0.1	3	7	11
62230		10	7	<0.1	<2	10	9
62231		5	3	0.1	<2	<2	<5
62232		32	16	0.2	4	4	<5
62233		8	4	0.1	<2	<2	<5
62424		26	23	<0.1	2	306	14
62425		106	40	<0.1	5	93	<5

...egg & Company Ltd.
...gcotek Road
...a, Ontario
...J 8...
(613) ...220 Telex 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 089-54102.0 | PROJECT: NONE |

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB	Au New PPB	Au New PPB
60101		25	26	<0.1	4	51	<5	<5	<5
60102		24	20	<0.1	2	40	9	<5	12
60103		20	29	0.1	5	54	160	145	172
60104		33	123	0.1	7	66	2596	2536	
60105		50	28	<0.1	3	89	724	812	936
60106		21	19	<0.1	2	95	93	107	89
60107		16	55	<0.1	3	32	908	568	901
60108		15	31	<0.1	5	73	135	161	157
60109		12	13	<0.1	<2	155	9	9	11
60110		9	13	<0.1	2	104	5	<5	<5
60111		9	21	<0.1	3	20	<5		
60112		12	26	0.1	4	23	<5		
60113		18	12	<0.1	<2	12	<5		
60114		16	18	<0.1	2	10	<5		
60115		80	19	<0.1	4	12	<5		
60116		35	19	<0.1	<2	20	<5		
60117		12	18	<0.1	<2	14	<5		
60118		25	18	<0.1	3	20	<5		UNDERSILL
60119		31	18	<0.1	2	24	<5		
60120		16	19	<0.1	3	33	<5		
60121		15	17	<0.1	3	32	<5		UND-1
60122		13	17	<0.1	2	191	12		
60123		31	14	<0.1	3	76	6		
60124		28	14	<0.1	2	190	33		
60125		38	37	<0.1	4	784	147		
60126		73	40	<0.1	3	300	191		
60127		54	37	<0.1	2	166	29		
60128		79	19	<0.1	2	656	48		
60129		42	29	<0.1	2	252	51		
60130		16	33	<0.1	3	298	28		
60131		24	40	<0.1	2	163	23		
60132		90	39	<0.1	2	73	45		
60133		117	34	<0.1	3	36	73		
60134		171	34	<0.1	<2	364	179		
60135		91	59	<0.1	5		13		
60136		40	20	<0.1	<2	3	<5		
60137		157	80	<0.1	3	9	5		
60138		154	61	<0.1	<2	5	<5		

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-5401.0 | PROJECT: none | PAGE .

SAMPLE NUMBER	ELEMENT UNITS	Cu ppm	Zn ppm	Ag ppm	Pb ppm	As ppm	Au ppb	
60139		205	42	<0.1	7	12	<5	
60140		52	34	<0.1	6	23	5	
60141		54	47	<0.1	8	22	<5	
60142		42	37	<0.1	4	20	<5	
60143		38	32	<0.1	6	20	<5	
60144		51	28	<0.1	4	17	5	
60145		33	33	<0.1	3	21	<5	
60146		357	13	<0.1	6	14	<5	
60147		99	8	<0.1	6	11	<5	
60148		47	23	<0.1	3	43	<5	
60149		73	20	<0.1	4	18	<5	
60150		62	11	<0.1	2	11	<5	
60151		48	12	<0.1	8	17	<5	UND-2
60152		73	15	<0.1	5	14	<5	
60153		46	194	<0.1	14	21	6	
60154		36	20	<0.1	6	10	<5	
60155		31	6	<0.1	2	11	<5	
60156		24	13	<0.1	2	8	<5	
60157		230	29	<0.1	8	5	7	
60158		204	53	<0.1	5	7	<5	
60159		182	46	<0.1	2	16	<5	
60160		56	175	<0.1	57	10	<5	
60161		248	62	<0.1	5	14	5	
60162		209	43	<0.1	5	9	<5	
60163		296	62	<0.1	14	6	7	
60164		253	53	<0.1	7	7	7	
60165		362	75	<0.1	6	6	11	
60166		292	74	<0.1	10	5	7	
60167		47	36	<0.1	3	17	6	
60168		96	30	<0.1	4	11	7	
60169		32	38	0.1	3	15	9	
60170		44	101	<0.1	35	1296	1125	
60171		53	36	<0.1	8	163	5	
60172		69	66	<0.1	5	41	31	UND-3
60173		41	64	<0.1	3	30	20	
60174		30	33	<0.1	2	14	10	
60175		46	29	<0.1	3	23	27	
60176		34	34	0.1	2	15	<5	
60177		42	27	0.2	2	22	97	
60178		20	31	0.2	2	35	21	

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-5A101.0 | PROJECT: NONE | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
60179		30	34	0.2	4	33	<5
60180		21	30	<0.1	2	17	<5
60181		56	34	0.1	5	42	<5
60182		35	34	0.2	6	32	<5
60183		77	34	0.3	5	42	<5
60184		43	26	0.1	4	34	<5
60185		55	37	0.2	7	42	5
60186		39	83	<0.1	5	60	13
60187		44	26	0.3	4	35	<5
60188		53	172	<0.1	44	16	<5
60189		58	28	0.1	6	39	5
60190		44	29	0.2	8	31	5
60191		35	24	<0.1	3	42	5
60192		35	48	0.1	3	36	<5
60193		47	37	<0.1	7	33	<5
60194		40	29	<0.1	5	34	9
60195		35	40	0.2	10	32	9
60196		39	45	0.1	6	30	20
60197		44	48	<0.1	6	41	37
60198		44	25	0.1	5	28	16
60199		46	70	<0.1	15	17	20
60200		40	69	<0.1	18	32	7
60201		32	16	0.4	5	31	5
60202		28	13	<0.1	5	22	17
60203		67	16	0.1	4	35	19
60204		19	12	<0.1	4	29	68
60205		29	12	<0.1	3	28	13
60206		55	9	0.1	5	20	7
60207		22	16	<0.1	5	13	5

UNO-3

& Company Ltd.
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Geochemical Lab Report

REPORT: 088-54195.0 PROJECT: UNDERSILL LAKE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ni PPM	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
60208			49	37	0.3	6	23	6
60209			74	39	0.5	17	26	<5
60210			69	20	0.2	8	7	<5
60211			48	39	0.4	8	35	<5
60212			55	59	<0.1	33	22	6
60213			60	305	0.5	166	48	<5
60214			64	67	<0.1	9	68	<5
60215			64	57	0.2	9	25	5
60216			79	65	<0.1	8	6	7
60217			47	45	0.2	6	4	<5
60218			43	43	0.4	5	<2	5
60219			16	21	0.2	6	<2	<5
60220			73	35	0.3	5	3	<5
60221			6	25	0.3	6	2	<5
60222			8	23	0.3	6	4	<5
60223			16	22	0.1	6	6	<5
60224			18	18	0.5	6	43	<5
60225			69	27	0.3	5	15	<5
60226			34	29	0.1	6	8	<5
60227			13	31	0.1	7	19	<5
60228			3	28	0.2	6	11	<5
60229			11	19	0.4	6	15	<5
60230			46	28	0.1	6	6	<5
60231			3	6	0.5	4	7	<5
60232			8	9	0.2	9	4	<5
60233			3	6	0.3	5	6	<5
60234			10	13	0.1	5	2	<5
60235			21	11	0.2	5	3	<5
60236			8	15	0.2	5	3	<5
60237			85	49	0.1	6	53	<5
60238			70	38	<0.1	5	62	17
60239			77	30	0.3	4	51	6
60240			59	24	0.1	4	50	<5
60241			52	23	0.4	5	74	36
60242			60	18	0.2	4	916	270
60243			15	9	0.1	3	1480	238
60244			40	10	<0.1	5	824	71
60245			55	26	0.1	4	264	10
60246			52	24	0.3	6	129	5
60247			40	22	0.4	6	37	7

UND-5

...ecs & Company Ltd.
...hotek Road
... Ontario
...8X5
...) 749-2220 Telex 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-54195.0

PROJECT: UNDERSILL LAKE PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Ni PPM	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB	
60248			35	11	0.6	7	360	1644	
60249			38	27	0.4	6	290	8	
60250			26	22	0.5	5	103	5	UND-5
60251			28	16	0.2	5	1024	85	
60252			43	24	0.2	5	59	<5	
60253			1	9	<0.1	5	4	<5	
60254			3	31	<0.1	5	7	<5	
60255			1	11	0.1	5	<2	<5	
60256			2	9	0.5	5	4	<5	
60257			4	25	0.2	5	4	<5	
60258			3	7	0.1	3	7	<5	
60259			2	12	0.1	3	7	<5	
60260			1	12	<0.1	4	10	<5	
60261			1	8	0.1	2	9	<5	
60262			9	19	0.1	5	6	<5	
60263			21	35	<0.1	4	40	<5	
60264			64	34	<0.1	5	27	<5	
60265			459	31	0.5	5	57	<5	UND-4
60266			93	29	0.1	4	24	<5	
60267			163	32	0.2	4	45	<5	
60268			11	33	<0.1	4	101	<5	
60269			152	28	0.2	4	30	<5	
60270			2730	28	0.3	5	28	<5	
60271			45	37	<0.1	4	16	<5	
60272			56	39	<0.1	6	8	<5	
60273			44	30	0.2	5	12	<5	
60274			76	27	0.1	5	14	<5	
60275			79	40	0.1	4	17	<5	
60276			13	47	0.2	6	10	10	
60277			2	20	0.3	4	5	<5	
60278			2	31	0.1	6	8	5	
60279			2	18	0.2	3	5	<5	UND 4A
60280			2	28	<0.1	4	4	<5	
60281			6	26	0.1	4	8	5	
60282			8	32	0.5	5	11	<5	
60283			4	55	0.2	5	6	<5	

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
3rd Floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

June 13, 1989

Your file: W8904-142
Our file: 2.12313

Mining Recorder
Ministry of Northern Development and Mines
435 James Street South
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Sir:

Re: Notice of Intent dated May 9, 1989 Geological, Geochemical Survey and Expenditures submitted on Mining Claims TB 990157 et al in Mary Jane Lake Area.

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

D.KDK:eb
Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Thunder Bay, Ontario

Brian Nelson
Thunder Bay, Ontario

Mingold Resources Inc.
Toronto, Ontario

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.12313

Date: May 9, 1989

Mining Recorder's Report of Work No.: W8904-142

Recorded Holder: MINGOLD RESOURCES INC.

Township or Area: MARY JANE LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	TB 990157 to 66 incl. 1021389 to 92 incl.
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical 7 days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

TB 1021386 to 88 incl.

(14 technical days X 7 = 98 divided by 14 claims = 7 days)

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.12313

Date: May 9, 1989

Mining Recorder's Report of Work No.: W8904-142

Recorded Holder: MINGOLD RESOURCES INC.

Township or Area: MARY JANE LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	TB 990157 to 66 incl. 10
Magnetometer _____ days	1021386 to 92 incl. 7
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 20 days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines

Technical Assessment Work Credits

File 2.12313

Date May 9, 1989

Mining Recorder's Report of Work No. W8904-142

Recorded Holder
MINGOLD RESOURCES INC.

Township or Area
MARY JANE LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$6193.50 spent on analyses of surface and D.D. Core samples taken from Mining Claims:
Electromagnetic _____ days	TB 990157 to 66 incl.
Magnetometer _____ days	1021389 to 92 incl. 4
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	413 days credit allowed which may be grouped in accordance with section 76(6) of the Mining Act.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. 8904 • 142

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

MINING LANDS 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.

MARY JANE LAKE (G80)

Type of Survey(s)	Township or Area
GEOLOGY, SOIL GEO-CHEMICAL	~~EVA TOWNSHIP~~

Claim Holder(s)	Prospector's Licence No.
MINGOLD RESOURCES INC. 2.12313	T 4617

Address: Box 28, Toronto Dominion Centre, Toronto, Ontario M5K 1B8

Survey Company	Date of Survey (from & to) Day / Mo. / Yr. / Day / Mo. / Yr.	Total Miles of line Cut

Name and Address of Author (of Geo-Technical report)
Brian Nelson, Mingold Resources Inc. 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	20
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	5.8
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
TB	990157	18.4
	990158	18.4
	990159	18.4
	990160	18.4
	990161	18.4
	990162	18.4
	990163	18.4
	990164	18.4
	990165	18.4
	990166	18.4
	1021386	18.4
	1021387	18.4
	1021388	18.4
	1021389	18.4
	1021390	18.4
	1021391	18.4
	1021392	18.4

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
APR 3 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 17

Expenditures (excludes power stripping)

Type of Work Performed: Assaying-Surface & Drill Core Samples

Performed on Claim(s): Claims listed to right

Calculation of Expenditure Days Credits

Total Expenditures			=	Total Days Credits
$ 6,193.50	÷	15	=	413

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.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
751	MAR. 28. 1989	
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
March 23/89	

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

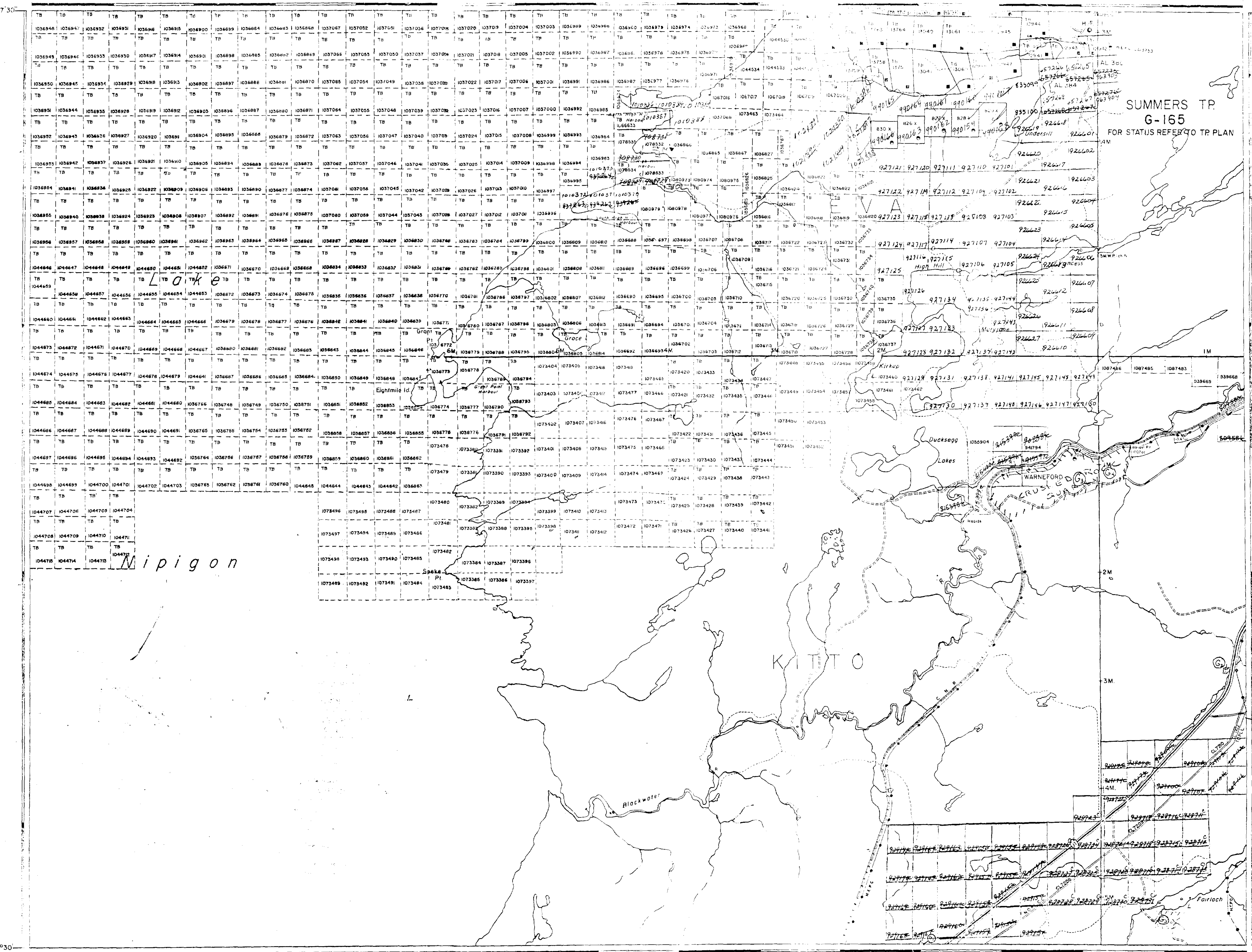
'89 MAR 23 14 05

.S on Lake Nipigon to
.E.P.C.
1930. File 12198.
from 855' contour to H.E.P.C.

SAND & GRAVEL

.T.C. Pit No. 754
Gravel File 187827
(G) M.T.C. Pit 20-10 File 133687
(G) Quarry Permit

POPLAR POINT G-115



PIJITAWABIK BAY & KILKENNY TWP. G-111

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT

- PATENT, SURFACE & MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LEASE, SURFACE & MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LICENCE OF OCCUPATION
- CROWN LAND SALE
- ORDER-IN-COUNCIL
- RESERVATION
- CANCELLED
- SAND & GRAVEL

SCALE: 1 INCH = 40 CHAINS

FEET 0 500 1000 2000 4000

METRES 0 200 400 600 800 1 KM.

AREA

MARYJANE LAKE

M.N.R. ADMINISTRATIVE DISTRICT

NIPIGON

MINING DIVISION

THUNDER BAY

LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ministry of Natural Resources Ontario — Land Management Branch

Date 17/FEB./1981

August 8, 1985

Number G-80

495881

52H09SE0002 2.12313 MARYJANE LAKE

200

LEGEND	SYMBOLS
SEDIMENT - CLASTIC	TRENCH
BANDED MGT-CHT IRON FORMATION	DDH
GABBRO - DIABASE	PIT
QUARTZ VEINING	FOLIATION
CONTACT	SWAMP
CLAIM POST FOUND	BOTTOM SLOPE
APPROX. LOCATION OF CP - NOT FOUND	GROUND VLF CONDUCTOR AXIS
CLAIM LINES	FAULT

0 100 200 300 500 1000
FEET

2.12313
OM88-183

MINGOLD RESOURCES INC.
EASTERN DISTRICT

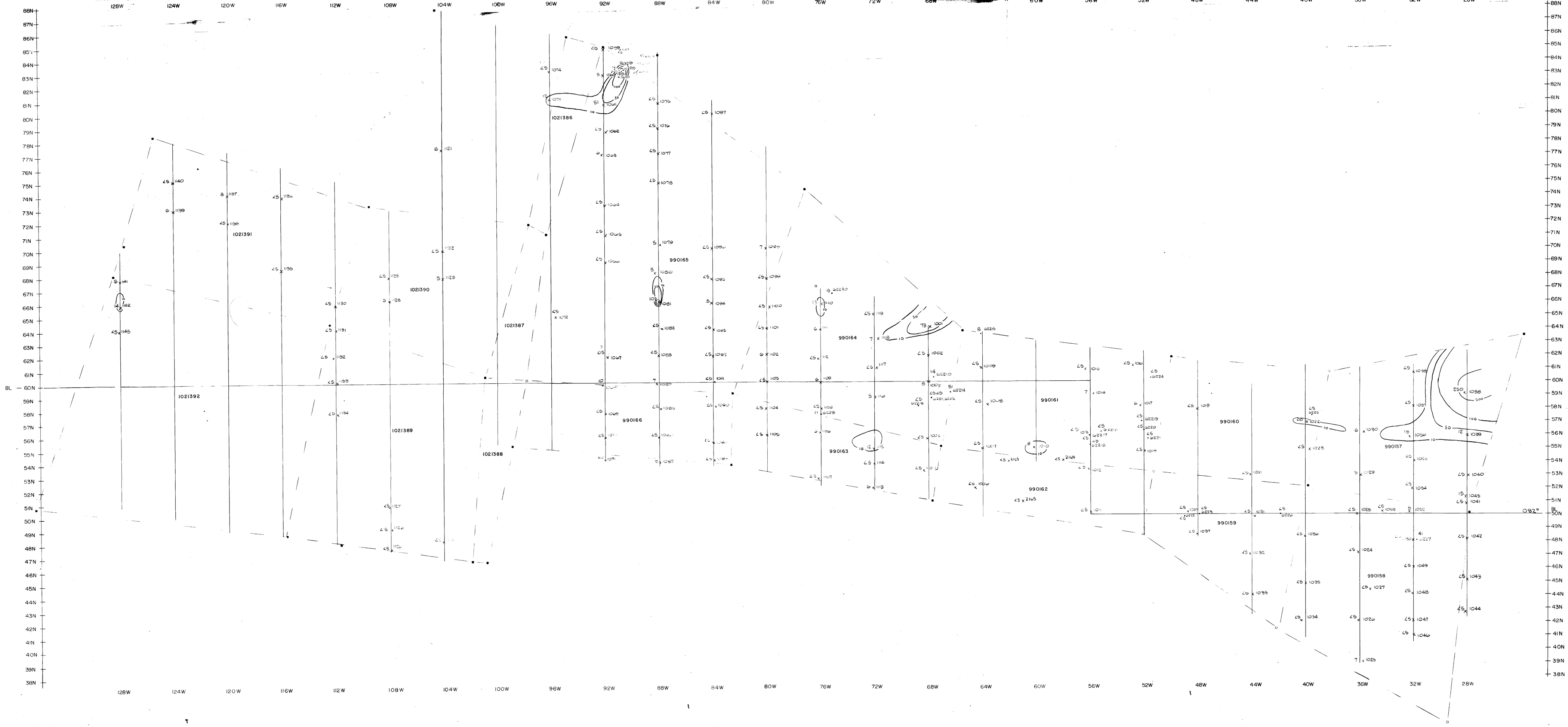
UNDERSILL LAKE OPTION

GEOLOGY

DATE: FEB 1989
SCALE: 1:2400
DRAWN BY: G.F.
DWG NO.

NTS 52 H 9

210



LEGEND

W - ppb Au (Soil Geo-Chemistry)

• - ppb Au (Litho Geo-Chemistry)

Contours - ppb Au

MINGOLD RESOURCES INC.
EASTERN DISTRICT

UNDERSILL LAKE OPTION
SAMPLE LOCATION - AU GEOCHEMISTRY

DATE: FEB 1989
SCALE: 1:2400
DRAWN BY: G.F.
DWG NO. FIG. 6

CLAIM AREA G-80 NTS 52 H 9

UNDERSIL LAKE PROJECT

BEARDMORE ONT

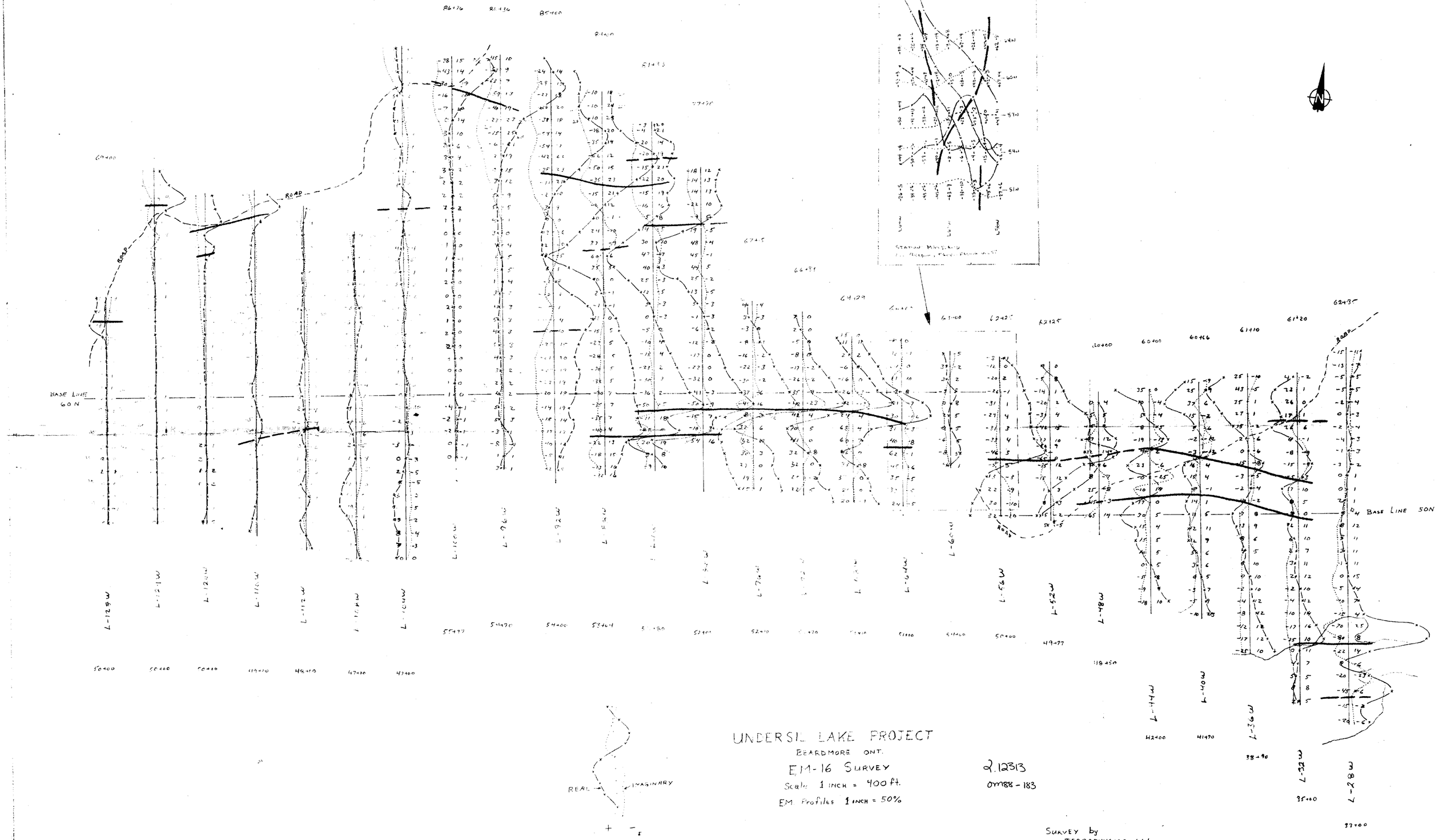
MAGNETOMETER SURVEY

Scale 1 INCH = 400 ft

reduced 58,000 gammas all readings

2.12313

om88-183



UNDERSIL LAKE PROJECT

BEARDMORE ONT.

EM-16 SURVEY

Scale 1 INCH = 400 ft.

EM. Profiles 1 INCH = 50%

2.12313

OM88-183

Survey by
TERRAPHYSICS Ltd.

Note: all readings taken facing north
Seattle station