52B07NW0017 2.12924 POWELL LAKE

010

MINGOLD RESOURCES INC.

POWELL PROPERTY

1988-89 REPORT

GEOLOGICAL MAPPING, GEOCHEMISTRY, GEOPHYSICS

(VLF-EM, MAGNETIC, IP)

April, 1988 - September, 1989

Powell Lake Area, Thunder Bay Mining Division

NTS 52B/10

by

G. B. Douglas
G. E. Bidwell
E. B. Mosley

November 20, 1989

52B07NW0017 2.12924 POWELL LAKE

010C

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1. Summary

The Powell property of Mingold Resources Inc. consists of 139 contiguous claims acquired by option in June 1988. The group is 115 km west of Thunder Bay in the western portion of the Shebandownan greenstone belt. Other active gold exploration properties in the area include the Tandem-Storimin occurrence at Snodgrass Lake and the Ardeen Mine, a former producer in Moss Township. Both of these prospects are 10 km to the northeast of the Powell group in the same metavolcanic sequence.

Work to date on the property includes linecutting, VLF-EM and magnetic surveys, geological mapping, rock and soil geochemistry, and a test induced polarization survey. A multitude of VLF-EM anomalies have been located parallel to the regional NE trend of the metavolcanics. The magnetic data outlines sporadic magnetic high linears mainly in the northern portion of the property. The linear trends are northeasterly and parallel to the dominant regional direction. The source of these magnetic anomalies is most likely narrow iron formations intercalated in the metavolcanic sequence. The rock and soil geochemical results show that sporadic indications of gold tend to be associated with VLF conductors often near contacts between felsic intrusives and metavolcanics. The limited IP data confirms the intrusive/volcanic contacts and VLF conductors as significant targets for gold mineralization.

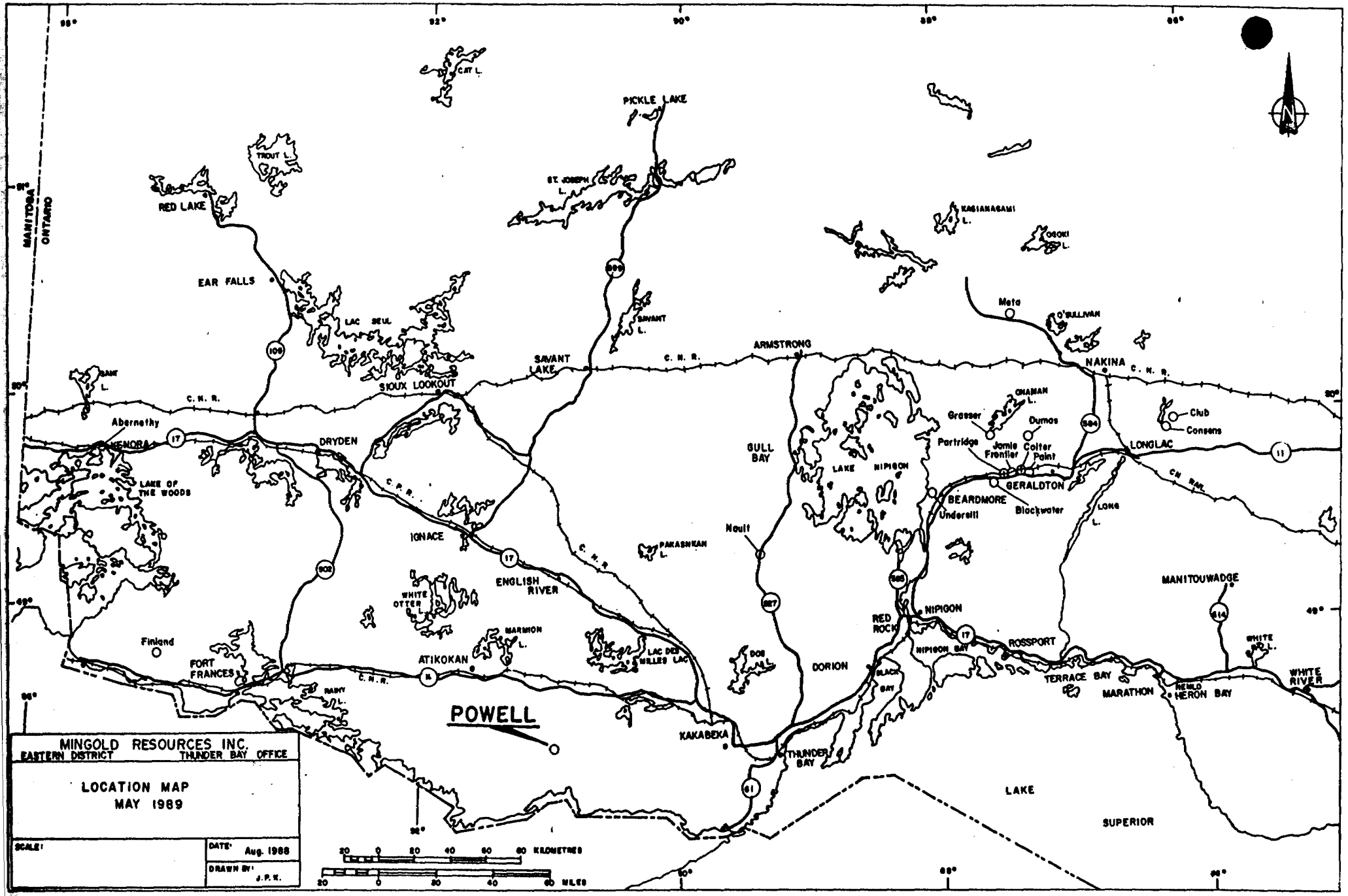
A 1200 metre drill program is recommended to test coincident geological, geophysical and geochemical targets in the northeast portion of the claim block.

2. Location and Access (Fig. 1)

The Powell Property is located in the Powell Lake - Clay Lake area about 115 km west of Thunder Bay. The block is 22 km south of Highway 11 in the area just southwest of Moss Twp. The Northern Goldstream mine at Burchell Lake, a former copper producer is 20 km to the northeast. Current exploration activity in the area is concentrated around the Tandem-Storimin property and the old Ardeen Mine in the Moss-Snodgrass Lake area. These properties are 10 km to the northeast of the Powell Group.

The claim block is located in N.T.S. 52B/10 and is centered on 48° 28' latitude and 90° 53' longitude.

Road access to the claims is by Highway 802 which turn off Highway 11 two km west of Kashabowie and extends for 6 kms. A main haulage road continues for another 30 kms to Canadian Forest Products Camp 517 and a further 16 km reaches the east portion of the claim block. Access to the western portion of the group is best achieved by fixed wing aircraft to Clay or Powell Lake. The Wawiag River is navigable but two sets of rapids must be portaged.



MINGOLD RESOURCES INC.
EASTERN DISTRICT THUNDER BAY OFFICE

LOCATION MAP
MAY 1989

SCALE:

DATE: Aug. 1988

DRAWN BY: J.P.K.

3. Property Ownership (Fig. 2)

The property consists of 139 contiguous claims as shown on the Powell Lake Claim Map (G-549). A block of 135 claims were staked by E. Mosley, W. Richardson et al in the period Sept. 5 to Nov. 9, 1987. Four claims were added to the group March 18, 1988. In July, 1989 eight claims were abandoned due to staking decencies but were immediately restaked.

In June of 1988 E. Mosley and W. Richardson optioned the claim block to Mingold Resources Inc.

In October of 1988 J. Myslicki applied for a Certificate of Interest on 50 claims within the group. Later the Certificate of Interest was altered to include the complete claim package. A Mining Commissioners hearing was held in July/89 to resolve the dispute but no ruling has been released to date.

For a complete listing of the individual claims and their assessment status see Table 1. Not all of the assessment under application is reflected in the listing. You will note that Certificates of Record have been obtained on 23 claims in the northeast area of the block.

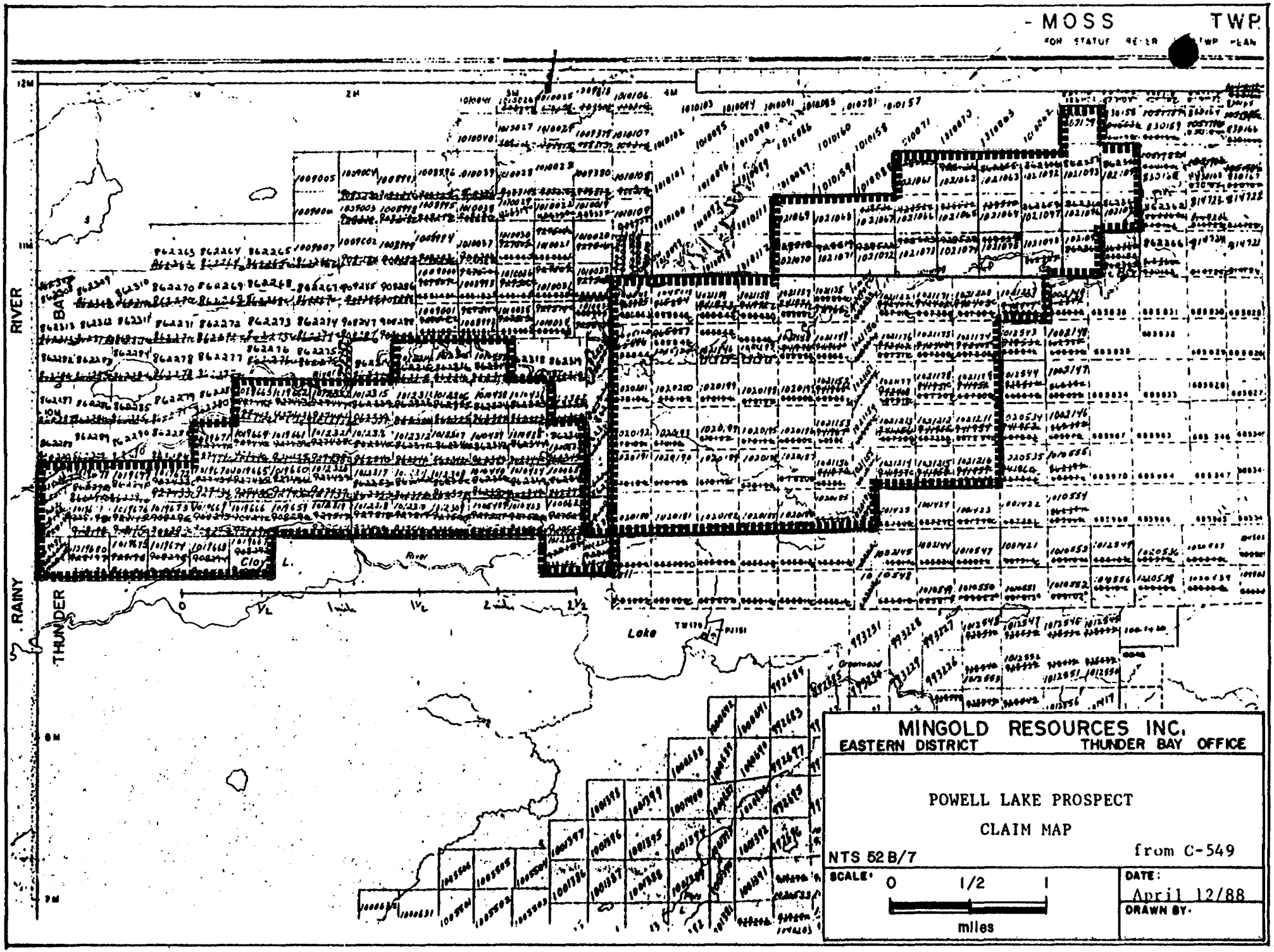
4. Regional Geology

The Moss Lake - Powell Lake area was covered by 1 inch = ½ mile geological mapping by F. R. Harris for the Ontario Dept. of Mines in 1966-67. The work is published as ODM Geological Report 85 with accompanying maps 2203 and 2204. The following regional geological description is taken from this report.

All rocks in the area are of Precambrian age. The oldest units are intercalated mafic to felsic metavolcanics and greywacke. These units have been intruded by diorite, gabbro, basalt porphyry, dacite porphyry and peridotite. All the above rocks are cut by stocks and batholiths of granite and syenite.

The claim block (11.5 km x 2.5 km) covers a portion of a northeasterly trending metavolcanic belt with a felsic inner zone and mafic margins. The volcanics are bordered on the south by granite. The metavolcanic package continues to the northwest of the claim group. The mafic and felsic metavolcanics are intercalated in many places and gradational changes are commonplace. The majority of the claim group is underlain by felsic to intermediate volcanics with tuff/agglomerates being the dominant rock type. The lesser mafic sequences are commonly foliated lavas. Numerous small lens-like bodies of gabbro and diorite are randomly distributed in the volcanics. They generally parallel the regional NE strike. Age relationships indicate these mafic intrusives are closely related to the metavolcanics. Minor iron formations and late felsic intrusive dikes or sills are also present.

Faulting in the area is northeast, parallel to the regional strike. According to Harris (1970) there is weak evidence that the volcanic belt is an anticlinal structure.


- MOSS TWP.
RAINY RIVER
THUNDER BAY
Clay L.
River
Lake
0
1/2
1
1 1/2
2
2 1/2
miles
MINGOLD RESOURCES INC.
EASTERN DISTRICT
THUNDER BAY OFFICE
POWELL LAKE PROSPECT
CLAIM MAP
NTS 52 B/7
from C-549
SCALE: 0 1/2 1 miles
DATE: April 12/88
DRAWN BY:

Property: POWELL OPTION

Mining District: Thunder Bay

Claim Map: Powell Lake (G-549)

MINGOLD RESOURCES INC.

CLAIM DATA

* Certificate of Record obtained

Date: September 28, 1989

N.T.S. 52B/7

Lat. 48° 28' Long 90° 53'

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
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1000635	K. Kinner	Sept. 5/87	Sept. 25, 1987	MRI	June 30/88		20	40								60	X	X	X			
1005489	W. Richardson	Sept. 7/87	Sept. 25, 1987	MRI	June 30/88		20	40								60	X	X	X			
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1019661	K. Kinner	Sept. 6/87	Sept. 25, 1987	MRI	June 30/88		20	40								60	X	X	X			

ASSESSMENT PENDING

Property: POWELL OPTION

Mining District: Thunder Bay

Claim Map: Powell Lake (G-549)

MINGOLD RESOURCES INC.

CLAIM DATA

* Certificate of Record obtained

Date: September 28, 1989

N.T.S. 52B/7

Lat. 48° 28' Long 90° 53'

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
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ASSESSMENT PENDING

Property: POWELL OPTION

Mining District: Thunder Bay

Claim Map: Powell Lake (G-549)

MINGOLD RESOURCES INC.

CLAIM DATA

* Certificate of Record obtained

Date: September 28, 1989

N.T.S. 52B/7

Lat. 48° 28' Long 90° 53'

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
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1021062	E. Mosley	Sept. 5/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
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1021066	E. Mosley	Sept. 5/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
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1021070	E. Mosley	Sept. 7/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
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1021072	E. Mosley	Sept. 6/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021073	E. Mosley	Sept. 6/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021074	E. Mosley	Sept. 6/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021075	E. Mosley	Sept. 6/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
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1021092	R. Morden	Sept. 5/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021093	R. Morden	Sept. 5/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021094	R. Morden	Sept. 6/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021095	R. Morden	Sept. 7/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021096	R. Morden	Sept. 6/87	Sept. 24, 1987	MRI *	June 30/88		20	40								60	X	X	X			
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1021122	R. Morden	Oct. 23/87	Nov. 6, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021134	E. Mosley	Nov. 9/87	Nov. 23, 1987	MRI	June 30/88	Abandoned																

ASSESSMENT PENDING

Property: POWELL OPTION

Date: September 28, 1989

MINGOLD RESOURCES INC.

Mining District: Thunder Bay

CLAIM DATA

N.T.S. 52B/7

Claim Map: Powell Lake (G-549)

Lat. 48° 28' Long 90° 53'

* Certificate of Record obtained

CLAIM NUMBER	STAKED BY	STAKED DATE	RECORDING DATE	TRANSFERRED TO	TRANSFERRED DATE	ASSESSMENT CREDITS (man-days) Manual	EM	Mag	Geophy	Geol.	Geochem	Drill	Strip	Mechan.	Expend	TOTAL CREDITS	EXPIRY DATE	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
1021135	E. Mosley	Nov. 9/87	Nov. 23, 1987	MRI	June 30/88	Abandoned																
1021146	E. Mosley	Oct. 21/87	Nov. 6, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021147	E. Mosley	Oct. 21/87	Nov. 6, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021148	E. Mosley	Oct. 21/87	Nov. 6, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021149	E. Mosley	Oct. 21/87	Nov. 6, 1987	MRI *	June 30/88		20	40								60	X	X	X			
1021150	E. Mosley	Oct. 21/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021151	E. Mosley	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021152	E. Mosley	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021153	E. Mosley	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021154	E. Mosley	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021155	E. Mosley	Oct. 23/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021156	E. Mosley	Oct. 23/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021157	E. Mosley	Nov. 9/87	Nov. 23, 1987	MRI	June 30/88	Abandoned																
1021158	E. Mosley	Nov. 9/87	Nov. 23, 1987	MRI	June 30/88	Abandoned																
1021159	E. Mosley	Nov. 9/87	Nov. 23, 1987	MRI	June 30/88	Abandoned																
1021171	R. Morden	Oct. 27/87	Nov. 6, 1987	MRI	June 30/88	Abandoned																
1021174	R. Morden	Oct. 21/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021175	R. Morden	Oct. 23/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021176	R. Morden	Oct. 23/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021177	R. Morden	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021178	R. Morden	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021179	R. Morden	Oct. 21/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021211	R. Morden	Oct. 21/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021212	R. Morden	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021213	R. Morden	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021214	R. Morden	Oct. 22/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021215	R. Morden	Oct. 21/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021216	R. Morden	Oct. 21/87	Nov. 6, 1987	MRI	June 30/88		20	40								60	X	X	X			
1021227	R. Morden	Nov. 9/87	Nov. 23, 1987	MRI	June 30/88	Abandoned																
1021228	R. Morden	Nov. 9/87	Nov. 23, 1987	MRI	June 30/88	Abandoned																

EXPIRY DATE	20 days	40 days	40 days	40 days	60 days
1989	1990	1991	1992	1993	1994

1045118	L. Mosley	Mar. 18/88	Mar. 21, 1988	MRI *	June 30/88		20	40								60	X	X	X			
1045119	L. Mosley	Mar. 18/88	Mar. 21, 1988	MRI *	June 30/88		20	40								60	X	X	X			
1045120	L. Mosley	Mar. 18/88	Mar. 21, 1988	MRI *	June 30/88		20	40								60	X	X	X			
1045121	L. Mosley	Mar. 18/88	Mar. 21, 1988	MRI *	June 30/88		20	40								60	X	X	X			

ASSESSMENT PENDING

Property: POWELL OPTION

Mining District: Thunder Bay

Claim Map: Powell Lake (G-549)

MINGOLD RESOURCES INC.

CLAIM DATA

* Certificate of Record obtained

Date: September 28, 1989

N.T.S. 52B/7

Lat. 48° 28' Long 90° 53'

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	1990	1991	1992	1993	1994	1995
1055104	R. Mosley	July 22/89	July 15, 1989	MRI	Aug. 24/89												X					
1055105	R. Mosley	July 22/89	July 15, 1989	MRI	Aug. 24/89												X					
1055106	R. Mosley	July 22/89	July 15, 1989	MRI	Aug. 24/89												X					
1055107	R. Mosley	July 22/89	July 15, 1989	MRI	Aug. 24/89												X					
1079914	W. Richardson	July 22/89	Aug. 10, 1989	MRI	Aug. 24/89												X					
1079915	W. Richardson	July 22/89	Aug. 10, 1989	MRI	Aug. 24/89												X					
1079916	W. Richardson	July 22/89	Aug. 10, 1989	MRI	Aug. 24/89												X					
1079917	W. Richardson	July 22/89	Aug. 10, 1989	MRI	Aug. 24/89												X					

The closest significant occurrence to the Powell Group is the Ardeen Mine 10 km to the northeast in the same metavolcanic belt. Gold was discovered on the Ardeen property in 1871. It produced 40,000 tons of ore in 1936 with a recovery grade of 0.17 oz gold/ton. The gold-bearing quartz vein (few inches to 8 feet wide) is hosted by intermediate to mafic metavolcanics and is closely associated with a feldspar porphyry sill. The Tandem-Storimin prospect, a further 4 km to the northeast is under active exploration. The better values are spatially related to a NE trending shear near a small diorite stock. Exploration in 1987-88, including 2300 ft. of decline gave a preliminary reserve estimate of 400,000 tons @ 0.18 oz gold/ton but underground drilling has failed to confirm this tonnage. Surface drilling in early 1989 has located significant mineralization in adjoining parallel structures and more drilling is to be undertaken this summer.

5. Mingold Program

Linecutting began on the property in April 1988 and continued intermittently to September 1989. Work was initiated in the northeastern portion of the property and generally proceeded southwesterly. Baselines have an azimuth of 070 degrees. The grid originally had a 200 metre line spacing with later fill-in to a 100 metre spacing. Section lines are marked at 25 metre intervals. Total linecutting to date including baselines is approximately 205 kms. No linecutting has taken place on 21 claims at the extreme west end of the claim block.

In the period August - October, 1988 E. Mosley carried out geological mapping and lithogeochemical sampling in the northeast area from 0 to 60E north of the Wawiag River. A total of 223 rock samples were collected and analyzed for a six element package. Eighty-nine of the samples also received a whole rock analysis. Minor follow-up sampling was carried out in June, 1989. The remainder of the claim block was mapped on a reconnaissance basis by G. Douglas in August - September, 1989.

Magnetic and VLF-Electromagnetic surveys were undertaken in the period January to September, 1989 covering the complete gridded portion.

A soil sampling program consisting of 2131 samples was carried out in August and September, 1989. The survey concentrated in areas of geological significance and VLF conductors.

Four days of test inducted polarization survey were undertaken in October.

6. Property Geology (Plates G-1 to G-4)

(a) North of Wawiag River - E. Mosley

In the fall of 1988 E. Mosley of Atikokan, Ontario under contract to Mingold Resources Inc. carried out detailed geological mapping and sampling in the north and eastern part of the Powell Lake - Wawiag River claim block between the Obadinaw River and the Wawiag River.

The property is at the western end of the Shebandowan Archean Metavolcanic Belt and abuts against Quetico Provincial Park. The belt extends east north-east and is underlain by a variable thickness of felsic, intermediate and mafic metavolcanics and metasediments which are intruded by semi-concordant sill-like bodies. Younger granitic rocks occur south and west and syenitic rocks occur in the northeast.

Faulting and lineaments in the region are generally north east trending, though a few trend north westerly.

Lapilli tuff and agglomerate occur across the middle and south parts of the map area. They contain generally heterogeneous aligned and stretched felsic, sub-rounded and sub-angular mafic and other lithic fragments in a more chloritic matrix. Occasionally unidentified gossan fragments occur.

An extensive iron formation occurs across the northern part of the area. It varies in abundance of chert, magnetite and occasional pyrite. A number of discontinuous iron formations occur across the middle part of the map area.

A large mafic to intermediate unit dominates the north end of the area. This mafic to intermediate unit consists of dark green aphanitic to fine grained, massive to moderately foliated material intercalated with intermediate tuffaceous horizons and amygdaloidal mafic flows. The amygdules are usually quartz-filled with occasional carbonate.

Thinner flows of mafic and mafic to intermediate material also occur across the map area, generally fine grained, but often amygdaloidal and not uncommonly displaying pillows. Crude top determinations indicate younging to the south.

Two intermediate volcanoclastic horizons are discontinuously found toward the south end of the map area, intercalated with the felsic and mafic units.

Numerous lenses and sill-like bodies of intermediate to felsic composition crosscut the metavolcanics. These are generally light grayish-white to buff and locally exhibit pinkish hematitic stain. Quartz eyes are ubiquitous, though they are often very sparse. Some of these are strongly fractured and exhibit a stockwork of quartz veining usually with some minor pyrite mineralization and accompanying pinkish hematitic alteration.

A larger stocklike intrusive of granodioritic appearance dominates the north central part of the area. It is generally more massive, medium grained and light grayish white in colour. A distinctive porphyritic phase can been seen along the south contact of this body. The feldspar crystals are medium to coarse grained, sub-angular to sub-rounded in a slightly darker groundmass. Sparse rounded quartz eyes are common.

A sill-like monzonite body is found north of the Wawiag River east of L-25 East. This unit is medium grained, generally massive, grey-buff with fine chlorite alteration in the groundmass. This too is cut by many quartz-filled fractures forming a stockwork.

Minor mafic dikes occur in the west central part of the area. These are massive, fine to medium grained and may be related to the surrounding intermediate to mafic volcanics.

The southeast portion of the area near the Wawiag River is dominated by a diorite-gabbro intrusive. This rock is typically dark grey-green, medium grained, (though to the south this grades into coarse grained gabbro), massive, with occasional fine grained disseminated pyrite.

An isolated lamprophyre dyke was found in the north central park of the map area. This is very dark green-black with numerous biotite phenocrysts throughout.

The metamorphic grade is greenschist facies although one area in the southwest within the rhyolite indicated amphibolite facies as exhibited by abundance of fine grained garnets.

Chlorite alteration generally occurs strongest adjacent to shears and the intrusives.

Pyrite mineralization is ubiquitous throughout the felsic and mafic metavolcanics and in lesser amount in the intermediate intrusives.

Carbonitization was noted in several area as stringers and amygdule fillings, sometimes associated with quartz.

Silicification is a common feature in the more brittle felsic and intermediate metavolcanics and intrusives as quartz veins and stringers. In the mafic metavolcanics quartz most commonly occurs as amygdule filling.

Tourmaline was found to occur in numerous areas but most strongly in the north central part of the area within the intermediate intrusive and associated with minor quartz, pyrite and strong hematite alteration.

Hematite alteration occurs mainly in the felsic volcanics, through some alteration was noticed in the mafic volcanics. The hematite alteration sometimes displays a lateral trend.

(b) South of Wawiag River - G. Douglas

A sequence of felsic to mafic metavolcanics intruded by plutonic rocks of various ages underlies the property. Granite is exposed in the vicinity of Powell and Clay Lakes in the southwestern portion of the property. Iron formation is exposed in the northeastern quadrant of the property.

Mapping shows a pronounced strike of about 070° for the rock units. Deformation has also imparted a foliation of the rock forming minerals and clastic fragments of the metavolcanics in this direction. A brief description of each of the lithologies is presented below.

Mafic to Intermediate Metavolcanics (unit 1)

The largest portion of the claim group is underlain by a series of mafic to intermediate metavolcanics. Generally these rocks vary from medium dark green to dark greenish black on fresh surface and somewhat lighter on weathered surface. All are very fine grained to aphanitic. Textures range from massive to strongly foliated. Tuffaceous, lapilli tuff and agglomeratic varieties occur according to fragment size. The fragments weather buff or creamy in contrast with the dark matrix. Often they share evidence of stretching and impart a rough foliation.

Porphyritic lava is found in association with intrusive bodies in the western part of the claims, north of Powell Lake. Sparse feldspar phenocrysts (1-3 mm) are set in a dark matrix. In the northeast quadrant of the claim group amygdaloidal lavas are common. The amygdules are filled with calcite and average less than 5mm in diameter.

Chloritic alteration is developed throughout the sequence. Pyrite is usually observed as disseminated fine grained (≈ 1mm) cubes and occasionally as small stringers. Quartz, quartz-carbonate and carbonate stringers and irregular masses are often observed occasionally with sulphides and strong chloritic alteration.

Potassic alteration is often found in areas rich in quartz + carbonate alteration and/or along shear zones or in areas adjacent to felsic intrusive bodies. Degree of the alteration ranges from a light brownish gray hue developed along some bands of the metavolcanics to well developed moderate to dusky red bands up to 5mm thick within the matrix and parallel to the foliation.

Iron Formation (unit 2)

Fine grained banded cherty-quartz-magnetite iron formation is exposed in the area north of the Wawiag River in association and conformable with mafic metavolcanics. Pyrite is occasionally visible and hematite oxidation products of pyrite are observed to stain the quartz.

Felsic Metavolcanics (unit 3)

The largest bodies of felsic metavolcanics occur in the northeast quadrant of the property, north of the Wawiag River. A few lens shaped bodies occur in the south half of the property and a number of medium size bodies occur in the western portion of the property.

The felsic metavolcanics have been subdivided into massive rhyolite, quartz eye rhyolite and tuff, lapilli and breccia. Typically all are very fine grained to aphanitic, hard, very brittle - often breaking with a subconchoidal fracture. Colour is variable ranging from buff through grey and commonly pale green and pick. Normally massive, these rocks may exhibit slatey cleavage in some localities adjacent to intrusive bodies.

Quartz eyes are commonly found and may make up to 30% of the rock, averaging 5 - 10%. The eyes are made up of rounded clear quartz grains which exhibit various hues of blue and range from <1mm to about 3 cm in diameter.

Alteration of the felsic to intermediate metavolcanics commonly occurs. Epidotization, sericitization, carbonitization and pyritization are evident. Potassic alteration is developed adjacent to syenitic and trachytic intrusives and the degree of this alteration commonly decreases with distance from the intrusive. Quartz, quartz carbonate and carbonate veining are occasionally seen. Pyrite occurs as finely disseminated cubes. Occasionally secondary iron oxides (hematite) has developed along joints.

Early Felsic and Intermediate Intrusives (unit 4)

Mapped as granodiorite and monzonite these rocks are exposed in the northeastern portion of the area often in association with felsic metavolcanics. Sill-like structures are predominant. Occasional lenses occur in the central portion of the property.

Granodiorite is massive, medium grained and light grayish white in colour while monzonite is grey buff in colour with a fine chlorite alteration in the groundmass. Quartz filled tension fractures hosted by the monzonite in the vicinity of 25+00E/3+00S carry significant gold values.

Tourmaline associated with minor quartz and pyrite was found at 40E/0+75S and 43E/5N within this unit.

Late Felsic and Intermediate Intrusives (units 5, 7)

These intrusives are composed of syenite, feldspar porphyry intermediate dikes (unit 5) and in unit 7 trachyte, latite and alkaline intrusives. Unit 7 is likely related to the syenites but has been mapped separately due to its distinct appearance.

Syenite is fine grained, moderate red to pale reddish brown in colour with 1-2 mm rounded quartz and feldspar phenocrysts. In the locality of 4E/12S specular hematite occurs as rims about feldspar phenocrysts and on joint surfaces. Trachyte, latite and alkaline intrusives are similar to the syenite but are very massive, moderate reddish orange to moderate reddish orange in colour, aphanitic and brittle. Often rocks in the vicinity of intrusions of this rock type show varying

degrees of pink to brownish red potassic alteration which decreases in intensity with distance from the intrusion

Feldspar porphyry dikes and sills occur throughout the property. Quartz and feldspar phenocrysts up to 5mm in diameter are supported by a chloritized matrix. Feldspar is creamy white and the matrix is pale blue green in colour.

Mafic Intrusives

Stocks and sills of diorite or gabbro occur mostly in the northern portion of the claim group. They are massive medium grained and grayish green in overall colour. Disseminated pyrite is commonly present.

7. Magnetic Survey

(a) Procedure

A total of 190 kms of magnetic survey was carried out with readings at 25 metre intervals.

W. Richardson commenced magnetic surveying over the northeast portion of the property in 1988 and the survey was completed over the balance of the property in 1989 by G. Bidwell and B. Nelson. A Geometrics G-816 proton precession magnetometer with a staff mounted sensor was employed for the survey with the exception of lines 30W, 31W and 32W where a Scintrex MF-2 instrument was used.

Diurnal corrections were applied using the loop method and readings were tied into the baseline. Readings and times were taken at 25 metre intervals along the lines.

(b) Results

Contoured results of the magnetic survey are presented on Plates M-1, M-2, M-3 and M-4. A distinct trend parallel to the foliation (approx. 070°) is shown by the contours. Twenty-seven anomalies are clearly indicated and Table 2 is a recapitulation of the associated geology and VLF response.

Generally the anomalies with the highest magnetic readings are underlain by iron formation which occurs sporadically in the volcanic sequences. Diorite and gabbro show considerable variation in magnetic response but in some cases have moderate magnetic anomalies. Felsic and intermediate intrusives display low magnetic relief. The metavolcanics generally show low magnetic relief although strong anomalies are occasionally encountered due to disseminated and finely banded magnetite.

MINGOLD RESOURCES INC. - POWELL PROJECT
TABLE 2

COMPARISONS OF MAGNETIC ANOMALIES WITH OBSERVED GEOLOGY AND VLF CONDUCTORS

Sheet No.	Anomaly No.	Max Readings	Assoc. EM	Geology
1	1	1757	yes	mafic metavolcanics
1	2	1852	no	mafic metavolcanics
1	3	1725	no	quartz eye rhyolite
1	3a	3885	no	dioritic, gabbro
1	4	8533	yes	mafic metavolcanics
1	5	1630	yes	iron formation
1	6	8000	yes	iron formation
1	7	1148	yes	iron formation, mafic metavolcanics
1	8	2914	yes	mafic metavolcanics
1	9	1392	yes	quartz eye rhyolite
1	10	1138	no	mafic metavolcanics
2	11	1559	yes	iron formation
2	12	1794	yes	iron formation
2	13	1295	no	mafic metavolcanics
2	14	8062	yes	quartz eye rhyolite and magnetite
2	15	2558	on strike	quartz eye rhyolite and magnetite
2	16	4930	yes	iron formation
2	17	3957	no	mafic metavolcanics
3	18	1718	no	altered quartz eye rhyolite
3	19	2643	no	altered quartz eye rhyolite
3	20	1342	no	mafic metavolcanics - agglomerate
3	21	2689	yes	mafic metavolcanics
3	22	2080	no	?
3	23	1084	no	intermediate metavolcanics
4	24	1065	yes	intermediate metavolcanics
4	25	3581	no	diorite
4	26	2427	no	intermediate metavolcanics
4	27	2300	no	intermediate metavolcanics

8. VLF Electromagnetic Survey

(a) Procedure

Approximately 180 kms of VLF-M survey was carried out. The Geonics EM-16 electromagnetometer was employed for the survey. In-phase and quadrature components were recorded for each station situated at 25 metre intervals along the section lines. Topographic descriptions were also recorded and in some instances geological information.

In January - February 1989 the surveys were conducted by W. Richardson and in September, 1989 by G. Douglas and R. Baxter.

(b) Results

Plates E-1, E-2, E-3 and E-4 show profiled results of the Geonics EM-16 survey. Conductors have been drawn through the midpoint of the steepest portion of the in-phase curve. Five type responses, as shown in Figure 1, have been established and each of the conductors have been classified according to this scheme.

Type 1 conductors are characterized by a reversed quadrature with respect to the in-phase component. Often this response is indicative of sulphide or magnetite mineralization. Type 2 conductors show strong amplitudes in the in-phase component and fairly flat quadrature. Broad in-phase and quadrature anomalies are reported in Category 3. In-phase and quadrature response following the same directions is characteristic of Category 4 and is indicative of shear zones, contact zones, alteration zones and other weak conductors. An elevated positive quadrature response characterizes Type 5 conductors and is often related to near surface effects (lakes, swamps).

Table 3 lists 150 conductors evaluated according to this scheme along with observed or interpreted geology. Most of the conductors fall into category 4; contact, shear and alteration zones. All of these features are favourable for the deposition of gold therefore geochemical surveys were carried out in the vicinity to assist in the determination of the most favourable conductors for further exploration.

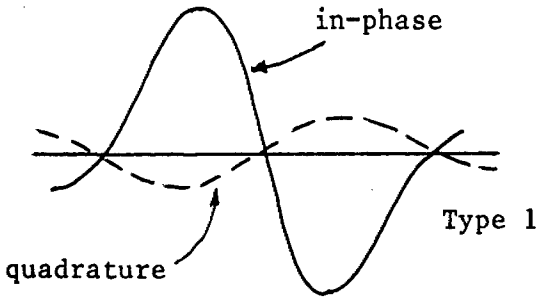
9. Induced Polarization Survey

From October 4 to October 7, 1989 JVX Limited of Richmond Hill, Ontario conducted 3 km of induced polarization/resistivity surveys over a test area in the northeast corner of the claim block. The survey yielded a number of weak to moderately strong IP anomalies on the three surveyed lines (L-51E, 57E and 58E). Some of the better responses coincide with gold soil geochemistry anomalies and VLF-EM conductors.

The JVX Limited report of the surveys with maps is given in Appendix III.

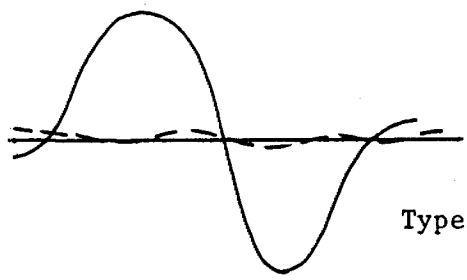
PLATE 3

CLASSIFICATION USED IN EVALUATION OF POWELL LAKE VLF CONDUCTORS



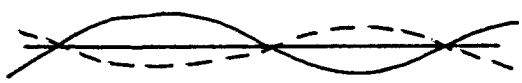
Type 1

Reverse quadrature is the most significant feature of this response type.



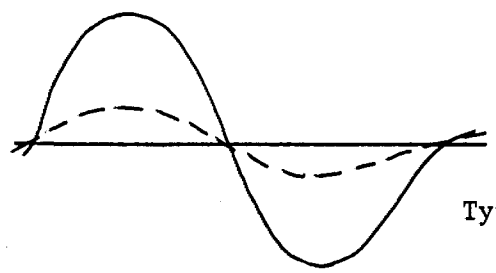
Type 2

In-phase response shows high amplitude (greater than 50%) quadrature relatively flat.



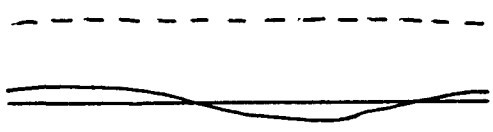
Type 3

Fairly broad anomalies with reversed quadrature.



Type 4

In-phase and quadrature follow same direction..



Type 5

Quadrature is highly positive.

MINGOLD RESOURCES INC. - POWELL PROJECT
TABLE 3

VLF ELECTROMAGNETIC ANOMALIES IN POWELL LAKE CLAIM BLOCK

Sheet No.	Conductor No.	Approx. Length (m)	Response Type	Geology
1	A- 1	400	3	
1	A- 2	500	2 - 4	
1	A- 3	600	4	mafic metavolcanics
1	A- 4	700	4	
1	A- 5	600	4	iron formation
1	A- 6	400	4	felsic intrusive/mafic metavolcanics
1	A- 7	200	4	mafic metavolcanics
1	A- 8	300	4	felsic intrusive
1	A- 9	200	4	felsic intrusive
1	A-10	2100	2, 4	mafic metavolcanics and felsic intrusives
1	B- 1	600	4	between two iron formations
1	B- 2	500	1, 2	iron formation
1	B- 3	600	2, 4	iron formation
1	B- 4	200	4	contact felsic intrusive, mafic metavolcanics
1	B- 5	2500	2, 4	contact felsic intrusive, mafic metavolcanics
1	C- 1	200	4	contact mafic and felsic metavolcanics
1	C- 2	500	4	shear or fracture in felsic metavolcanics
1	D- 1	250	2	fracture system in feldspar porphyry
1	D- 2	100	2	fracture system in feldspar porphyry
1	D- 3	200	4	fracture system in feldspar porphyry
1	D- 4	500	4	fracture? crossing contact metavolcanics
1	D- 5	300	4	
1	D- 6	300	4	parallels felsic metavolc-mafic intrusive contact
1	D- 7	400	4	parallels felsic-mafic metavolcanic contact
1	D- 8	300	4	fracture or shear in felsic mafic metavolcanic
1	D- 9	900	1, 2	contact mafic & felsic metavolc., iron formation
1	E- 1	300	4	
1	E- 2	500	4	contact mafic & felsic metavolcanics
1	E- 3	1200	4	river effect and follows sill of intrusives

MINGOLD RESOURCES INC. - POWELL PROJECT
TABLE 3

VLF ELECTROMAGNETIC ANOMALIES IN POWELL LAKE CLAIM BLOCK

Sheet No.	Conductor No.	Approx. Length (m)	Response Type	Geology
1	F- 1	900	4	mafic-felsic metavolcanic contact and shears
1	F- 2	400	4	mafic-felsic metavolcanic contact and shears
1	F- 3	500	3, 4	mafic-felsic metavolcanic contact and shears
1	F- 4	400	2	mafic intrusive
1	F- 5	700	2	swamp/river
1	G- 1	300	4	mafic metavolcanics
1	G- 2	200	4	mafic metavolcanics
1	G- 3	400	1	swamps, shear and alternation zone
1	G- 4	200	4	swamps, alteration zone?
1	G- 5	400	4	felsic metavolcanics - mafic intrusive contact
1	G- 6	200	4	mafic intrusive
1	G- 7	200	2	mafic intrusive
1	G- 8	800	1, 4	shear and alteration zone
1, 3	H- 1	200	1	felsic metavolcanics - shear?
1, 2	H- 2	300	4	felsic metavolcanics, felsic sill
1, 2	H- 3	500	2, 4	mafic metavolcanics - shear?
1	H- 4	1200	1, 4	edge swamp - shear zone?
2	I- 1	200	4	fractures associated with Obadinaw R.
2	I- 2	500	1	fractures associated with Obadinaw R.
2	I- 3	1400	1, 4	iron formation
2	J- 1	800	4, 5	contact felsic and mafic metavolcanics
2	K- 1	400	1, 4	iron formation
2	K- 2	800	1, 2 4	swamp, mafic and felsic metavolcanic contact
2	L- 1	600	4	shear? parallels felsic sill/metavolcanic contact
2	L- 2	200	4	shear? parallels felsic sill/metavolcanic contact
2	L- 3	500	4	shear? parallels felsic sill/metavolcanic contact
2	L- 4	900	4	mafic metavolcanic
2	M- 1	500	4	contact mafic felsic metavolcanic
2	M- 2	500	4	parallel to contact mafic felsic metavolcanic
2	M- 3	800	4	felsic metavolcanic
2	N- 1	1000	4	contact of felsic metavolcanics and felsic sill

MINGOLD RESOURCES INC. - POWELL PROJECT
TABLE 3

VLF ELECTROMAGNETIC ANOMALIES IN POWELL LAKE CLAIM BLOCK

Sheet No.	Conductor No.	Approx. Length (m)	Response Type	Geology
2	O- 1	200	4	felsic metavolcanics
2	O- 2	900	1, 4	contact mafic and felsic metavolcanics
2	P- 1	200	1, 5	felsic metavolcanics, swamp
2	P- 2	400	2	contact felsic metavolcanic, mafic intrusive
2	P- 3	600	1	contact felsic metavolcanic, mafic intrusive
2	P- 4	300	1	contact felsic metavolcanic, mafic intrusive
2	P- 5	300	1	? swamp area
1, 2	P- 6	2000	2, 5	shear? in felsic metavolcanics
2	Q- 1	200	2	edge river - shear?
2	Q- 2	200	1, 5	edge river - shear?
2	Q- 3	200	4	edge river - shear?
2	Q- 4	1600	2, 4	river plain - shear?
2	R- 1	300	4	mafic-intrusive - shear?
2	R- 2	500	4	swamp, felsic sill?
2	R- 3	300	4	swamp
2	R- 5	600	4	swamp covered - shear in felsic metavolcanic
2	S- 1	400	4	mafic metavolcanics shear?
2	S- 2	200	4	contact mafic & porphyritic metavolcanic
2	S- 3	300	2	felsic intrusive sill
2	S- 4	200	4	alteration & shear zone in mafic metavolcanics
2	S- 5	2000	1, 4	alteration & shear zone in mafic metavolcanics
2	T- 1	300	4	alteration & shear zone in mafic metavolcanics
2	T- 2	700	1, 4	alteration & shear zone in mafic metavolcanics
2	T- 3	300	4	shear in mafic metavolcanics?
2	T- 4	300	4	shear in mafic metavolcanics?
2	T- 5	700	4	trachyte-mafic metavolc. contact alteration zone
2	T- 6	700	4	trachyte-mafic metavolc. contact alteration zone
2	T- 7	1100	4	shear associated with trochyte intrusive
1, 2, 3	U- 1	500	4	swamp - shear? alteration
2, 3	U- 2	300	4	shear and alteration zone
1, 2, 3	U- 3	1600	1, 4	parallel swamp edge, intrusive-metavolc. contact

MINGOLD RESOURCES INC. - POWELL PROJECT
TABLE 3

VLF ELECTROMAGNETIC ANOMALIES IN POWELL LAKE CLAIM BLOCK

Sheet No.	Conductor No.	Approx. Length (m)	Response Type	Geology
2, 3	Y- 1	600	2, 4	swamp, gossan
2, 3	Y- 2			shear, alteration
2, 3	Y- 3	600	4	intrusives shear?
2, 3	Y- 4	200	2	shear in mafic metavolcanic
3	Y- 5	200	2	shear in mafic metavolcanics or swamp
3	Y- 6	400	4	shear in mafic metavolcanics
3	Y- 7	400	2	shear in mafic metavolcanics or swamp
3	Y- 8	400	4	shear in mafic metavolcanics or swamp
3	Y- 9	400	4	shear in mafic metavolcanics ?
3	Y-10	500	2	parallel to swamp - shear?
3	Y-11	200	4	parallel to swamp - shear?
3	Y-12	200	1	contact mafic & felsic metavolcanic
3	Y-13	500	4	alteration zone3Z- 16004contact felsic intrusive,
3	Z- 1	600	4	mafic metavolcanic
3	Z- 2	400	4	contact trachyte metavolcanics
3	Z- 3	600	4	contact felsic & mafic metavolcanics
3	Z- 4	300	4	shear? in mafic metavolcanics
3	Z- 5	400	4	shear? alteration zone?
3	Z- 6	400	4	shear?
3	Z- 7	100	4	shear
3	Z- 8	200	4	shear? swamp
3	X- 1	300	4	contact felsic intrusives in metavolcanic
3	X- 2	200	4	contact felsic intrusives in metavolcanic
3	X- 3	300	2, 4	shear?
3	X- 4	200	5	swamp? strong positive quadrature
3	X- 5	400	5	swamp? strong positive quadrature
3	X- 6	300	5	swamp? strong positive quadrature
3	X- 7	300	5	swamp? strong positive quadrature
3	X- 8	500	4	alteration zone
3	X- 9	500	5	granite - metavolcanic contact,
3	X-10	300	2	shear?
3	X-11	700	2	shear?
3	X-12	100	2, 4	shear?

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TABLE 3

VLF ELECTROMAGNETIC ANOMALIES IN POWELL LAKE CLAIM BLOCK

Sheet No.	Conductor No.	Approx. Length (m)	Response Type	Geology
3, 4	V- 1	500	4	shear zone, contact mafic intrusive
3, 4	V- 2	300	4	intrusive contacts
3	V- 3	400	5	shear zone, lake effect
3	V- 4	100	5	shear zone, granite contact, lake effect
3	V- 5	200	5	shear zone, granite contact, lake effect
3	V- 6	500	5	shear zone, granite contact, lake swamp effect
3	V- 7	200	4	shear zone
3	AA-1	400	4	shear zone - river
4	AA-2	1000	4	shear zone, edge river
4	AA-3	300	4	contact felsic intrusive, metavolcanic
4	AA-4	1200	2	creek, swamp contact, orange brown water in creek
4	AB-1	600	4	tension fracture?
4	AB-2	700	4	contact mafic & felsic metavolcanic
4	AB-3	600	2	edge swamp, contacts
4	AB-4	400	4	contacts
4	AB-5	600	4	contact granite & metavolcanic
4	AB-6	400	1, 2, 4, 5	contacts, sulfides?
4	AC-1	500	2	contact trachyte, metavolcanic
4	AC-2	600	4	alteration, felsic intrusive
4	AC-3	300	4	Swamp, shear?
4	AC-4	300	4	felsic intrusive contact
4	AC-5	600	2	edge swamp, granite contact
4	AD-1	700	4	mafic intrusive contact
4	AD-2	1000	4	shear zone, alteration
4	AD-3	400	4	shear zone?
4	AD-4	400	4	shear zone?

10. Lithogeochemistry

(a) Procedures

A 1988 a total of 223 rock samples were collected in the northeast area of the claim block. The sample locations are shown on Plates G-1 and G-2. The rock descriptions and locations are tested in Appendix I. All the samples were analyzed for a six element package of Au (ppb), Ag (ppm), Cu (ppm), Pb (ppm), Zn (ppm) and As (ppm) by Bondar-Clegg Co. Ltd. of Ottawa, Ontario. Analysis was as follows:

Sample Preparation

1. The entire field sample was reduced to -10 mesh using Jaw and Cone Crushers.
2. A 300g representative split of the -10 mesh material was obtained using a Jones Riffle Splitter.
3. The representative split was pulverized to -150 mesh using a ring and puck pulverizer.
4. The pulverized material was 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.

In addition 89 of the samples were submitted for whole rock analysis.

Individual components and extraction techniques were as follows:

Component	Extraction Method	Lower Detection Limit
Silica (SiO_2)	Borate Fusion, DC Plasma	0.01%
Titanium (TiO_2)	Borate Fusion, DC Plasma	0.01%
Alumina (Al_2O_3)	Borate Fusion, DC Plasma	0.01%
Total Iron (Fe_2O_3)	Borate Fusion, DC Plasma	0.01%
Manganese (MnO)	Borate Fusion, DC Plasma	0.01%
Magnesium (MgO)	Borate Fusion, DC Plasma	0.01%
Calcium (CaO)	Borate Fusion, DC Plasma	0.01%
Sodium (Na_2O)	Borate Fusion, DC Plasma	0.01%
Potassium (K_2O)	Borate Fusion, DC Plasma	0.01%
Phosphorous (P_2O_5)	Borate Fusion, DC Plasma	0.01%
Loss on Ignition (LOI)	Gravimetric	0.01%
Whole Rock Total		0.01%

(b) Results

The assays for the six-element package and the whole rock analysis are given in Appendix IV.

The main target of the exploration program is gold occurrences with a secondary interest in base metals. Of the 223 samples 13 gave a gold value of 100 ppb or greater including one sample (#266) which assayed >20,000 ppb Au.

A preliminary tabulation of the rock geochemical results is as follows:

Element	Low Value	High Value	Anomalous threshold	Anomalous Samples
gold (ppb)	<5	>20,000	100	13
silver (ppm)	<0.1	10	5	1
copper (ppm)	1	724	200	5
lead (ppm)	<2	334	100	1
zinc (ppm)	4	732	200	1
arsenic (ppm)	<2	52	20	1

A subsequent fire assay on sample #266 gave a result of 9.428 oz gold/ton. This sample is from a 2-5 cm wide coarse vuggy quartz vein at 25+20E/2+85S. The vein with accompanying pyrite and minor tourmaline trends at 165° across the ENE strike of the host quartz monzonite dike and is very local in extent. Check sampling gave a value of 2.38 oz Au/ton. Other narrow quartz veins on the same outcrop graded 371 and 291 ppb Au. The quartz monzonite wall rock adjoining the best vein mineralization assayed 852 ppb Au. Seventy-five metres to the east along the trend of the felsic dike minor quartz veins assay 0.52 oz Au/ton. Five soils in the area ran up to 41 ppb Au.

In 1989 an additional 30 rock samples were collected by G. Bidwell and G. Douglas. The samples are plotted on Plates G-1 to G-4 with descriptions given in Appendix II. The samples were assayed for gold-copper by Accurassay Labs. The gold results are shown on the plates, the gold and copper values are given in Appendix V.

11. Soil Geochemistry

(a) Procedure

In the vicinity of 25E/3S monzonite hosting quartz-filled tension fractures returned significant gold values. As a result Mingold elected to test the gold potential of the property using geochemical techniques. "B" horizon soil samples were collected in areas underlain by intrusive rocks or in areas showing evidence of shearing, sulphide mineralization or alteration.

Samples were collected with hand augers and shovels and depth interval of the sample, soil type and granularity were recorded for each sample.

All samples were analyzed by Accurassay Laboratories Ltd. of Thunder Bay for copper and gold. One assay ton of - 80 mesh material was split from each sample and the FA-AA technique was used for the gold analyses, copper was analyzed by the AA technique.

(b) Results

A total of 2131 soil samples were collected over VLF conductors, magnetic anomalies and in areas underlain by favourable geology. All samples were analyzed for gold and copper. Plates A-1, A-2, A-3 and A-4 show the geochemical results and have been contoured on the gold values.

Inspection of the plates show that gold tends to occur in isolated, erratically distributed anomalies often oriented parallel to the regional structure. Comparison with the geophysical and geological plates shows that gold tends to be associated with VLF conductors often near contacts between felsic intrusives and metavolcanics. Contacts between felsic metavolcanics with other rock types commonly may also show elevated gold values. Table 4 compares gold anomalies with the geophysical and geological data.

The rock geochemical results do not correlate well with the soil geochemical anomalies. In all probability gold occurs in narrow shear zones and the rock anomalies tend to be very restricted. With soil the anomalies are somewhat larger but it is suspected that with the shallow overburden and the locally hilly terrain that the soil dispersion is only in the order of a few tens of metres.

12. Conclusions

The Powell Lake claim group is underlain by a structurally complex sequence of metavolcanics and intrusive bodies. During deformation the felsic metavolcanics exhibited brittle behaviour in contrast to the more ductile mafic metavolcanics. As stress increased the felsic metavolcanics fractured and provided sites for the emplacement of intrusives. The intrusive bodies are also brittle and during later deformation provided sites for fracturing and emplacement of younger intrusives.
These numerous fracture zones, shear zones and contact zones provide sites for alteration processes as well as for deposition of economic mineral species.

The most promising areas to date are north of the Wawiag River and is shown on Plates 1 and 2. The geology and the geochemistry in particular indicate a complex geological package of acid to mafic metavolcanics and intrusives with iron formation in a strongly NE oriented trend. Hematite, carbonate, pyrite and sericite alteration along with silicification and quartz-carbonate veining provide favourable environments for gold mineralization.

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TABLE - 4

COMPARISON OF SOIL GEOCHEMICAL ANOMALIES WITH GEOPHYSICAL AND GEOLOGICAL DATA

Sheet No.	Soil Anomaly No.	Soil Anomaly (ppb)	Rock Geochem (ppb)	VLF Conductor No.	VLF Conductor Response	Magnetic Anomaly No.	Geology
1	1	1062		A-9	4		felsic intrusive
1	2	15		A-8	4		felsic intrusive
1	3, 4	23		B-3	4	1	mafic metavolcanics
1	5	20		-	-		contact mafic metavolcanics & felsic intrusive
1	6	17		-	-		contact mafic metavolcanics & felsic intrusive
1	7	65		B-4	4		contact intrusive & mafic metavolcanics
1	8	23		C-1	4		mafic metavolcanics
1	9	18		C-2	4		mafic metavolcanics
1	10	242		C-2	4		contact mafic & felsic metavolcanics
1	11	993		D-7	4	2	contact mafic & felsic metavolcanics
1	12	44		D-7	4	3	contact mafic & felsic metavolcanics
1	13	23		D-7	4	3	contact mafic & felsic metavolcanics
1	14	25		D-7	4	3	contact mafic & felsic metavolcanics
1	15	23		D-6	4		felsic metavolcanics
1	16	17		D-6	4	3	
1	17	21		-	-	3	contact mafic intrusive & felsic metavolcanics
1	18	17		-	-		
1	19	23	7	G-5	4		contact felsic metavolcanics & mafic intrusive
1	20	20		-	-		contact felsic metavolcanics & mafic intrusive
1	21	55	370	G-5	4		mafic intrusive
1	22	20		yes	4		mafic metavolcanics
1	23	15		-	-		mafic metavolcanics
1	24	25		A-7	4		mafic metavolcanics
1	25	58		A-10	4		felsic intrusive
1	26	43		B-3	2		mafic metavolcanics
1	27	30		-	-		felsic intrusives - contact (5, 4)
1	28	32		-	-		felsic intrusives
1	29	16		D-5	4		mafic metavolcanics
1	30	18		D-9	2		contact mafic & felsic metavolcanics
1	31	22		D-9	2		contact mafic & felsic metavolcanics
1	32	56		D-9	2		contact mafic metavolcanics & felsic intrusive
1	33	805		-	-		felsic metavolcanics
1	34	25	239	-	-	5	felsic metavolcanics
1	35	17		yes	1, 4		felsic metavolcanics

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COMPARISON OF SOIL GEOCHEMICAL ANOMALIES WITH GEOPHYSICAL AND GEOLOGICAL DATA

Sheet No.	Soil Anomaly No.	Soil Anomaly (ppb)	Rock Geochem (ppb)	VLF Conductor No.	VLF Conductor Response	VLF Conductor Type	Magnetic Anomaly No.	Geology
1	36	18		A-6		4		felsic intrusive
1	37	16		A-10		4		felsic intrusive
1	38	42		F-1		4		felsic metavolcanics
1	39	31		F-1		4		felsic metavolcanics
1	40	37		F-1		4		felsic metavolcanics
1	41	21		-		-		mafic intrusives
1	42	48		G-2		4		mafic metavolcanics, altered
1	43	50		-		-		mafic metavolcanics, sheared
1	44	61		G-8		1		mafic metavolcanics, altered
1, 4	45	92		H-4		4		contact mafic metavolcanics & mafic intrusives
1, 4	46	36		-		-		contact mafic metavolcanics & mafic intrusives
1, 4	47	75		-		-		mafic metavolcanics
1	48	114		-		-		felsic intrusives
1	49	16		-		-		mafic metavolcanics
1	50	53		yes		4		contact mafic metavolcanics & felsic intrusives
1	51	24		-		-		contact mafic metavolcanics & felsic intrusives
1	52	17	355	-		-	8	contact mafic metavolcanics & felsic intrusives
1	53	15	355	F-2		4	8	contact mafic metavolcanics & felsic intrusives
1	54	33		-		-		contact mafic & felsic intrusives
1	55	33		-		-		mafic metavolcanics
1	56	23		H-2		4		felsic & mafic metavolcanic & felsic intrusive
1, 4	57	20		-		-		mafic metavolcanic, felsic intrusive
1, 2	58	35		A-3		4		mafic metavolcanic
1	59	18		A-10		4	11	mafic metavolcanic, iron formation
1, 2	60	29		B-2		1		mafic metavolcanic, iron formation
1	61	50		B-5		4	12	mafic metavolcanic, iron formation
1	62	16		yes		4	6	felsic intrusives
1, 2	63	16	11	-		-		felsic metavolcanics
2	64	18		-		-		contact mafic metavolcanics & felsic intrusives
2	65	16		-		-		mafic metavolcanics?
2	66	41	>20000	P-6		2		felsic intrusive, south of gold showing
2	67	18		-		-		contact mafic & felsic metavolcanics
2	68	24		P-6		4		contact mafic metavolcanics & felsic intrusives
2	69	16		-		-		mafic metavolcanics
2	70	19		-		-		contact mafic & felsic metavolcanics

COMPARISON OF SOIL GEOCHEMICAL ANOMALIES WITH GEOPHYSICAL AND GEOLOGICAL DATA

Sheet No.	Soil Anomaly No.	Soil Anomaly (ppb)	Rock Geochem (ppb)	VLF Conductor No.	VLF Conductor Response	Type	Magnetic Anomaly No.	Geology
2	71	20		-		-		mafic metavolcanics
2	72	18		yes		4		contact mafic metavolcanics & felsic intrusives
2	73	28		-		-	15	felsic metavolcanics
2	74	17		Q-4		2		contact mafic metavolcanics & felsic intrusives
2	75	431		L-1		4	14	felsic intrusive
2	76	53		P-2		2		contact mafic metavolcanics & mafic intrusives
2	77	34		M-3		4		mafic metavolcanic
2	78	62		-		-		contact metavolcanics & mafic intrusives
2	79	15		R-1		4		mafic intrusive
2, 3	80	41		-		-		mafic metavolcanics & mafic intrusives
3	81	17		-		-		contact mafic metavolcanics & felsic intrusives
3	82	76		-		-		contact felsic intrusive & metavolcanics?
3	83	92		-		-		mafic metavolcanics rusty
3	84	39		-		-		mafic metavolcanics
3	85	68		Y-6		4		mafic metavolcanics
3	86	62		Y-9		4		mafic metavolcanics, altered
3	87	21						mafic metavolcanics
3	88	144		Y-9		4		mafic metavolcanics, altered
3	89	69						mafic metavolcanics
3	90	21		U-1		4		mafic metavolcanics
3	91	15		U-2		4		mafic metavolcanics
3	92	15		yes		4		mafic metavolcanics
3	93	20		Y-13		4		mafic metavolcanics, foliated
3	94	23		Y-13		4		mafic metavolcanics, foliated
3	95	60		-		-	18	metavolcanics, trachyte
3	96	113		-		-		contact mafic & felsic metavolcanics
3	97	25		-		-		mafic metavolcanics? drift covered
3	98	42		-		-		mafic metavolcanics? drift covered
3	99	34		-		-		mafic metavolcanics? drift covered
4	100	21		yes		4		mafic metavolcanics, quartz, calcite veins
4	101	48		-		-		contact mafic metavolcanic & felsic intrusive
4	102	35		-		-		mafic metavolcanics, rusty
4	103	25		yes		2		contact mafic metavolcanics & mafic intrusives
4	104	45		AB-3		2		felsic metavolcanics, sulphides
4	105	63		-		-		felsic metavolcanics

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COMPARISON OF SOIL GEOCHEMICAL ANOMALIES WITH GEOPHYSICAL AND GEOLOGICAL DATA

Sheet No.	Soil Anomaly No.	(ppb)	Rock Geochem (ppb)	VLF Conductor No.	Response Type	Magnetic Anomaly No.	Geology
4	106	40		-	-		felsic metavolcanic, sulphides
4	107	20		-	-		mafic metavolcanics
4	108	33		-	-		contact mafic & felsic metavolcanics
4	109	41		-	-		contact felsic metavolcanics & felsic intrusive
4	110	21		-	-		trachyte
4	111	31		-	-		mafic metavolcanics, pyrite, quartz
4	112	23		-	-		mafic metavolcanics
4	113	77		AC-1	2		trachyte, mafic intrusive, metavolcanics
4	114	78		AB-2	4		contact mafic & felsic metavolcanics

The rock and soil geochemistry, although not continuously anomalous, indicates areas of enhanced gold values. The VLF-EM, magnetic and IP results confirm the complex multi-sequenced nature of the geology and provide, specific targets for drill testing.

13. Recommendations

Diamond drilling is recommended as a follow-up of the program to date. The following 12 hole 1300 metre drill program is recommended:

Co-ordinates		Azimuth	Dip	Depth	Target
58+00E	5+70N	south	-45°	100m	intrusive/volc contact, IP anomaly, VLF conductor, gold soil anomaly
58+00E	0+25N	north	-45°	100m	intrusive/volc contact, IP anomaly, VLF conductor, gold soil anomaly
57+00E	3+25S	north	-45°	120m	2 iron formations, IP anomaly, mag & VLF anomalies, gold soil anomaly
57+00E	3+25S	south	-45°	120m	mafic/felsic volc contact, IP anomaly, gold soil high, VLF conductor
49+00E	3+85S	north	-45°	120m	IF, 2 mag anomalies, VLF conductor, gold rock anomaly
45+00E	4+00S	north	-45°	100m	strongly sheared felsic volcanic, gold rock anomaly
41+00E	0+65N	south	-45B	100m	intrusive/volc contact, junction of 2 VLF conductors, gold rock anomaly
25+50E	2+50S	south	-45°	120m	intrusive/volc contact, high rock assay (gold), VLF conductor, ext of IP anomaly
21+00E	2+12S	south	-45°	100m	VLF conductor, probable volcanic/intrusive contact
14+80E	2+75N	south	-45°	100m	intrusive/volc contact, rock geochem anomaly (gold), VLF and mag highs
12+70E	5+46N	S 15E	-45°	120m	IP, VLF and mag anomalies, probable iron formation/volcanic contact
11+00E	5+25N	south	-45°	100m	iron formation/volcanic contact, IP, VLF and magnetic anomalies.
				1300m	

14. Certificates

I, Gregory B. Douglas, of 235 Major Street, Toronto, Ontario do hereby certify:

1. That I am a graduate of McMaster Univery with a M.Sc. in 1974 and Queen's University with a B.Sc. (Eng.) in 1970.

2. The information contained in this report was obtained from personal examination of the area and from various government publications.

Dated at Toronto, Ontario the 15th day of November, 1989

Gregory B. Douglas

I, Gerald E. Bidwell of the City of Thunder Bay in the Province of Ontario hereby certify:

1. That I am a geologist employed by Mingold Resources Inc.

2. That I am a graduate of the University of Saskatchewan with a Bachelor of Arts and Science (Geology) degree granted in 1967. I have been practicing my profession for twenty-two years.

3. I am a fellow of the Geological Association of Canada.

4. That assay charges in the amount of $23,589.88, as listed in Appendix VI were paid by Mingold Resources Inc. for sampling on the Powell Property.

Dated at Thunder Bay, Ontario the 21th day of November 1989

Gerald E. Bidwell

I, Eric B. Mosley, of 16 Birch Rd., Atikokan, Ontario do hereby certify:

1. That I am a graduate of Lakehead University (1977) and hold a Honour B.Sc. degree in geology and have been practicing my profession since.

2. That I am a consulting geologist.

3. I have an interest in the mining property described in this report.

4. The information contained in this report was obtained from personal examination of the area and from various government publications.

Dated at Atikokan, Ontario the 1st day of June, 1989.

Eric B. Mosley

15. REFERENCES

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The Ontario Ministry of Northern Development and Mines Assessment Files, Thunder Bay Ontario.

APPENDIX I

ROCK SAMPLE DESCRIPTION - E. Mosley

1988

Sample No.	Field Name	Location	Remarks
[redacted]	Mafic	L52+77E/8+10S	f-mg-dk green, chloritic, sheared-looks like chlor. version of 109+113?
106	Dior/Gb	L52+95E/8+43S	mg. version similar to 177+138?
107	QE Rhy	L52+95E/8+38S	
108	Silicified Shear/Bx zone	L52+50E/8+40S	1-10% dis py-bleached and silicified sheared + Bx - strong Fe stain
109	Int. Leuco Diorite	L52+35/8+50S	f-mg, light greenish grey, weakly foliated 0.5% diss py, siliceous, much like L113?
110	QE Rhy	L53E/9+23S	drk grey QE Rhy. 1-2 mm qtz eyes
111	Alt. Rhyo? Mafic	L53E/9+57S	
112	Sheared Mg Gb	L53E/10+2S	strongly sheared, chlor mg? mafic; dk green almost schistose
113	Leuco Dior	L52+85/7+10S	
114	Alt QE Rhy Clast	L53+65E/7+00S	Clast or lense in QE Rhyo
115	Int-mafic	L53E/6+75S	Mg-int-mafic
116	QE Rhyo	L52+97E/6+04S	QE Rhyo near contact; sheared
117	QE Rhyo	L53E/5+60S	
118	QE Rhyo	L53E/4+46S	Sheared, 5% py; chloritic
119	QE Rhyo	L53E/4+05	Alt
120	Alt mafic?	L53E/3+78S	
121	F.g.Int-mafic	L52+90E/3+35S	med grey green mass. f.g. int?-mafic
122	Alt QE Rhy	L53E/2+85S	Ser.
123	Int-mafic Vol.	L57+40E/0+22S	
124	Feld Porph/ Leuco Dior Dyke	L56+60E/0+35S	mg wk fol., light-med grey, 1-3 mm feld >50%; 1-2 mm glassy qtz grains <5%- med greenish groundmass, tr-<1% fg py
125	Int-mafic Vol.	L55+08E/0+50N	v.f.g. med green grey 1-3 mm amygdules
126	Mafic Vol	L55+12E/2+25N	chlor & sheared
127	F. Porphyry (Dior.)	L55+10E/2+20N	mg. pinkish buff feld phyric (1-4mm) in med-drk green-grey groundmass
128	Hnbde Feld Porphyry	L52+72E/0+72S	m-cse gr. see notes
129	Int. Vol.	L51E/3+00S	f.g. carb (notes)
130	Int. Vol.	L51E/3+60S	carb along fracture

Sample No.	Field Name	Location	Remarks
131	Int. Amy Vol.	L51E/3+92S	
132	Alt. Int.	L51E/4+06S	notes
133	Fel-Int.?	L51E/4+47S	sheared, f.g.
134	Mafic Vol.	L51+10E/4+49S	
135	QE Rhy	L51E/5+08S	
136	F.g Dior.	L51E/5+35S	contact zone
137	Mafic-Int.Vol.	L50+90E/5+35S	1-5% py diss
138	Dior?	51+05E/5+60S	mg. mass. dk green grey & dk pinkish tinge of feld
139	Int.-mafic	L51E/6+75S	v.f.g. mass dk green
140	Leuco-Dior	L50+95E/7+20S	m.g. - mass light grey-green -feld appears v. pale, tr py creamy white green
141	QE Rh	L51E/7+86S	
142	Mafic Vol.	L51E/8+20S	f. g. dk green mass with 1-2 mm occasional chlor clots
143	Mafic Vol.	L50+80E/1+77N	
144	Acid Vol.	L51+10E/2+25N	
145	Mafic Vol.	L51E/3+22N	
146	Acid Vol.	L51E/3+25N	
147	Acid Vol.?	L51E/3+98N	
148	Mafic Vol.	L51E/4+30N	ct amygdules 1-3 mm
149	Bleached? Mafic-Int.Vol.	L51E/4+95N	
150	Feld.Porph/ Dior.?	L51E/5+10N	mg. feld.phyric Dior?
151	Maf. Vol.	L49E/2+29N	notes
152	Leuco Dior?	L49E/2+75N	mg pale greenish grey, mass
153	Mafic Flow	L49+06E/2+00N	Po? - mt f.g. dk green, chlor fine threads carb, 1-3% py
154	Mafic Vol.	L48+85E/1+76N	Argill.?
155	Carb-Py-Tl Qtz vein in Rhyo	L60+75E/0+85S	5% py; 1-5 cm vein in ser min Rhy W.R.
156	Int. Vol	L59E/0+25N	2% diss py
157	Red Dykes	L56+81E/6+12N	Rusty Red Dyke with diss py minor Qtz fract filling
158	Gossan Mafic Vol.	L59E/1+85S	Gossan Pyritized Mafic Vol. fg-mg diss py (composite)
159	QE Ry	L55+75E/5+40S	E Side of Rd., amyg. f.g. 2mm diss py 1-5%; strs with pyrite
160	QE Rhy	L55+15E/5+25S	Ser., strong foliation, 1% 1-3mm diss py
161	QE Rhy	L55+65E/5+10S	Sheared, chlor/ser (schistose)

Sample No.	Field Name	Location	Remarks
1	QE Rhy	L55E/4+60S	QE Rhyo fragment with chlor clastic with <1mm py
163	Chert/Fe fm	L49E/1+96N	Banded chert-argil-fm with diss f.g throughout
164	Int.	L59E/0+25N	Same as L-156
165	Mafic Vol.	L-59E/0+10N	amygdaloidal
166	Feld, Porphyry (Dior)	L59+30E/0+12S	
167	Mafic Vol.	L59E/0+30S	
168	Rhy.	L59+08E/2+80S	
169	Int. Vol.	L59E/3+73S	
170	Int. Vol?	L57E/4+25N	fine to medium grained
171	Int. Intr.?	L57E/4+65N	m.g. Dior? - light grey-buff-mafic chloritzed
172	Dior/leuco Dior	L57E/1+35N	
173	Leuco-Dior?	L57+80E/2+55S	f.-mg. light grey green massive with f.g. chlor specks
174	Fels-Int.	L57E/4+22S	chloritic alt. QE Rhy? mafic?. fig-3mm py, 1-5% py dk grey-mod. sheared
175	QE Rhy.	L55E/2+00S	notes
176	Int-Mafic	L55E/2+55S	Tuff?
177	Gb?	L53E/10+35S	sheared mg. dk green chlor. groundmass with 1-3mm lavender coloured feld.
178	Chert/Rhyo	L48+92/1+45N	massive aplanitic dk grey buff to white, 1-3% diss py-strong Fe alt on surface
179	Alt. Int. Vol.	L49+10E/1+46N	v. strong Ser., aplanitic - f.g. sheared grey-green with brown tinge
180	Chert Bx	L48+25E/1+43N	white sugary recrystallized chert with drk -chloritic? coloured bands
181	Fel-Int.Vol.	L49+50E/1+40N	f.g. light green grey mass.
182	Fel-Int.Intr.	L48+92E/1+20N	f-mg-light grey buff acid intr.? mass, weathers pinkish white.
183	Mafic Vol.	L50E/0+17S	
184	Feld. Porph	L49+80E/0+30S	same as L-188
185	Mafic Vol.	L49E/1+07S	pillowed-dk green, mass-wk fol, local chlor clasts, minor ct. amyg. v.f.g.
186	Mafic Vol.	L49E/1+27S	f.g. dk green 1-3mm ct amyg, foliated-local mass with local chloritic clasts
187	Mafic Vol.	L49E/2+02S	f.g. foliated and dk green chloritic, pillowed with occas. 1-2 mm ct. amyg.
188	Feld. Porph Dior?	L49E/2+20S	wk foliation, 1-10 mm sub-rounded-sub hedral feld. slight pale green in a dk green with pink groundmass

Sample No.	Field Name	Location	Remarks
1[redacted]	Mafic	L49E/3+50S	chloritic, aphaimtic,banded dk green brown silicified mafic? or cherty Rhyo?
190	QE Rhy Lap Tuff	L48+68E/3+75S	v. strong sericite/wk chlor
191	Banded Rhyo Chert?	L48+80E/3+90S	dk grey-black brown with darker bands of magnetic material; 5-10% diss py
192	Mafic Tuff Bx	L49E/4+48S	v.dark green chlor, sheared, strong magnetic matrix in the clasts of QE Rhyo lappilli-tuff
193	Mafic Vol.	L49+25E/5+00S	f.g. chlor sheared mafic with 1-2 mm Q eyes f.g. diss rounded grains with 3% and <1% diss py
194	Alt Rhyo?	48+90E/5+10S	f.g. sheared brownish pink Ser. rusty staining
195	QE Interm-Felsic	L49+10E/5+73S	Ser/chlor, f.g. sheared light grey green
196	Int. Lithic Lap Tuff	L49E/5+92S	
197	Mafic Amyg Vol.	L47+52E/0+00	
198	Int. Vol.?	L47+72E/0+15N	f.-md gr. greyish green-some carb filling of fract.-minor chlor. v.wk fol. to mass
199	Bleached Mafic	L47+21E/0+02S	v.f.g. light green massive, similar to 198
200	Fel-Int. Vol.	L47+55E/0+15N	same as 198
201	Mafic Vol.	L47+55E/0+17N	possible pillowed, dk green f.g. chloritic and local sheared
202	Int.?	L47E/0+08S	mg - med grey green mass; 1-3mm py enhedral plag, weathers buff-green pink
203	?	L47+03E/5+60S	
204	QE Rhy Lap Tuff	L47E/4+85S	
205	Qtz Rhy Lap Tuff	L47E/3+63S	
206	Qtz Vein	L47E/3+20S	tr - py
207	Qtz Rhy	L46+96E/2+66S	
208	Mg Int	L47E/2+20S	
209	Feld Porphyry	L-47E	
210	Mafic Flow	L47E/1+20S	
211	Fel	L47E/1+15N	
212	Int. Mafic Vol.	L47E/3+42N	
213	Mafic Lap. Tuff	L47+30E/4+05N	shear chlor

Sample No.	Field Name	Location	Remarks
2[redacted]	Int. Vol	L47E/4+65N	
215		L47E/5+12N	
216	Mafic Flow	L47E/5+05N	1-2 mm carb amyg
217	Fel-Int	L47+38E/3+75N	
218	Mafic Vol	L47+38E/3+75N	Tr-py
219	Lamp Dyke	L47+38E/3+75N	
220	Rhy	BL10S+08N/46+42E	Ser/chor/tr py
221	Rhy	L46+05E/10+40S	mod ser/chlor
222	Mafic Vol	L46E/10+70S	chlorite altered
223	Gb	L46E/11+50S	1-5% chloritic
224	QE Rhy	L43+70E/11+15S	Tr-1% py
225	QE Rhy	L44E/10+15S	5-10% py
226	Qtz vein	L46+58E/5+35S	py/Tour/Qtz
227	Wall Rock	L47+58E/5+35S	HW Rock Alt.
228	Felsic-Int Vol	L45E/5+03S	Ser/Chlor/cpy
229	Rhy	L45E/4+63S	<1% py
230	Int. Tuff?	L45E/4+48S	chlor/py/carb shear
231	Mafic	L44+82E/2+25S	V-chlor
232	Chty-Rhy Bx	L45+95E/0+45S	Chlor/py 3%
233	Qtz Vein	L49E/3+58S	P-111
234	Qtz Vein	L49E/3+59S	P-112
235	Qtz Vein	L48+90E/5+10S	P-113
236	F.g. Int.	L45E/4+87N	
237	Monzonite? Fel-Int.	L45E/5+25N	Felsic-Int or Monz
238	Q-Tl-Py Str	L45E/5+25N	
239	Chry Rhyo	L45+30E/5+25N	
240	Qtz Vein	L45E/6+70N	
241	Monz? Felsic Int.	L44+88E/5+15N	Alt? felsic or Monz.?
242	Argilc Mafic flow	L43+25E/0+12N	f.g. coarse diss py ≈ 15%
243	QE Rhy Tuff	L43E/4+09S	sheared
244	QE Rhy	L43E/3+51S	

Sample No.	Field Name	Location	Remarks
2[redacted]	QE Rhy	L42+96E/3+41S	lost
246	Rhy?	L43+03E/3+03S	
247	Rhy?	L43+06E/1+94S	
248	Iron Fm?	L43+12E/0+85S	dr. green f.g. strongly magnetic
249	Chty Rhy	L42+95E/0+20S	
250	Red Dyke/Alt	43+25E/4+90N	
251	Mf-Rhy	L43E/7+08N	
252	QE X'll Tuff	L40E/4+58S	Sheared strong. Ser. 1-3 mm Qtz X'lls
253	Amyg. Mafic Flow	L40E/4+32S	2mm - 5cm ct amyg & str, minor py
254	Qt Eye Rhy Tuff Bx	L39+70E/2+31S	v.f.g. diss py
255	QE Rhy Lap. Bx	L40E/1+10S	sheared 1-5% py
256	Mafic-Int.Tuff	L40E/0+62S	shear chlor/ser alt.
257	Sil Int	L40E/0+60S	siliceous light greenish intrusive
258	10 cm QV	L40E/0+78S	Qtz-tourmaline-pyrite
259	Chert/Mt.	L40+15E/1+50S	clasts or lense?
260	Int. Vol.?	L43E/0+05N	
261	Mafic-Int Dyke?	L42+44E/0+02N	
262	QE Felsic Vol	L42+05E/1+14N	
263	3 cm Q.V.	L42+09E/4+87N	weathered out
264	Silic. Mafic Vol.?	L42E/7+01N	
265	Monzonite	W.end of Monz.o/c	
266		W.end of Monz o/c	10cm Qtz vein with 1% py
267	Maf.Lap Bx	L41E/0+19N	
268	Monzo?	L41+18E/1+37N	
269	Maf.Lap.Tuff	L41E/6+25N	
270	Felsic Int.	L40+97E/7+31N	
271	Qtz Vein	L40E/4+25N	Composition Qtz + wall rock felsic Int.
272	Qtz Vein	L40E/4+70N	3mm Q-Py-stringer
273	Mt-Rhy.	L40E/6+70N	
274	Felsic Int.Bx	L40E/7+12N	

Sample No.	Field Name	Location	Remarks
[redacted]	QE Rhy	L39+50E/0+12N	
276	Felsic dyke	L38+70E/0+95N	Felsic Int.-dyke?
277	Q-Ser. Shear	L39+05E/2+37N	Boudined QV in Ser/Chlor shear within Felsic Instrusive
278	Q-Py Vein	L39+36E/4+56N	2-5 cm Q. with f.g. 1.5 cm enhedral py, 1-20% locally with felsic Int.
279	Mafic-Int.	L38+32E/4+96N	sheared with minor carb - rusty weather f.g.material
280	Qtz-Py	L39E/6+96N	1 cm Qtz str. with strong Rusty stain & Hem stained felsic intr.
281	Chlor Mt-Rhyo	L39E/8+22N	
282	Shear Carb Mafic Vol.	L38E/3+96S	
283	Alt. Q.E. Fel. Vol	L38+06E/3+73S	
284	Qtz/Tour/Py	L37+77E/0+56S	
285	Qtz/Tour/Py	L37+78E/0+45S	
286	QE Rhy Lap	L37+30E/0+30S	
287	Chl./Carb Mafic?	L37+91E/8+80N	
288	QE Felsic Lap Bx?	L36E/1+47S	
289	Sheared Felsic	L33+70E/2+06S	
290	Qtz Stockwork	L34E/1+00S	
291	Qtz Str/Mafic Vol.	L34+47E/0+50S	
292	Silic.Int. Vol.?	L32E/0+03S	
293	Felsic Lap.Bx	L29+85E/3+05S	
294	Felsic Tuff	L30+06E/2+70S	
295	Felsic Int Qtz stockwork	L29+87E/1+15S	
296	Maf. Vol.	L30E/0+19S	Qtz Str.
297	Maf. Vol	L29+88E/2+66N	
298	Monz. Dyk?	L28E/3+87S	
299	Monzonite	L28+06E/3+31S	
300	Q-Tl-Py Monz	L28E/3+12S	
301	Int Lap Bx	L27+92E/2+50S	
302	QV P-009	L55E/55+20E	

Sample No.	Field Name	Location	Remarks
3[redacted]	Mafic Lap.	L26E/2+30S	sheared with qtz strs/py
304	Amy. Mafic	L26E/0+56S	ct amyg. Tr. Py
305	Mt. flow	L26+09E/0+33S	30% py/MT
306	Felsic Int.	L26+53E/BL-0+2S	
307	Felsic Stk wk	L27+42E/0+03S	Tr Py
308	Mafic Vol.	L25+37E/0+33S	Alt. f.g. mafic Vol.
309	Mafic Vol.	L-26E/0+34N	Interdigitated mafic & felsic with pyrite sheared ct.
310	Mafic Vol.	L26E/2+12N	Carb-Py-Chlor
311	Chty Rhyo	L26+06E/2+75N	
312	Mafic?	L23+96E/2+75S	Mt-Py chlor. shear
313	QE Rhy Tuff Bx	L24E/0+52N	Hem stain 1% Py
314	Felsic Intr.	L24E/0+29N	Fe Stained
315	Mafic flow Bx	BL-0/22+16E	chlor with py diss and str
316	Felsic Intr.	L22E/2+44N	chlor. ankerite phenocryst
317	Felsic Intr.	L22+15E/3+15N	pink felsic intrusive with qtz/py str
318	Int.-Maf.Lap.	L22E/3+27S	with minor diss py
319	AE Rhy	L20E/1+00S	qt - py - chlor
320	QE Rhy	L20/0+16S	sheared chlor/ser
321	Felsic Intr.	L20E/0+21N	with strs & lenses Qtz
322	QE Rhy	L18E/1+00N	Ry
323	QE Rhy	L18E/0+21N	sheared
324	QE Rhy	L18E/0+77S	Rusty alt./with magnetite stringers sheared to strong foliation
325	Rhy	L14E/1+12N	Py 25% + Qtz strs
326	Fel Intr	L14E/2+35N	Qtz stkwork with chlor-py - tour
327	Monz	L16+56E/2+85S	Qtz str with py/chlor in Monz

APPENDIX II

ROCK SAMPLE DESCRIPTION - G. Douglas & G. Bidwell

1989

Sample No.	Field Name	Location	Remarks
611[illegible]		L7+00W/5+23S	altered QFP?, 3% diss mgr py
61447		L25+10E/2+85S	Main Vein, 2-5 cm wide trends 16S /70E - white vitreous quartz, coarse crystals vuggy, minor pyrite & fuchsite
61448		L25+10E/2+85S	wall rock 6 cm each side of main vein, coarse diss py
61449		L25+10E/2+85S	south side of outcrop, 4cm wide vein
61450		L25+10E/2+85S	south side of outcrop, narrow vein to east 2 cm wide very vuggy
61451		L25+85E/3+00S	East Noranda strip, qtz vein
61455		L58E/2+75S	gossan silicified zone, beside road * 5% py
61456		L40E/8+05S	10' wide shear zone, qtz veins to ¼" z folds
61457		L32+00E/10+00S	4" qtz vein @300 /90 , weathered out pyrite (hem after py) cubes to ¾"
61458		L42E/708N	Fe formation, weathered, lean
61459		L41E/6+65N	Fe formation + pyrite 9-10%
61460		L42E/0+70S	Fe formation, 2-4% pyrite
61461		L28E/10+20S	kspar alt. tr pyrite
61462		L26E/10+25S	5a v.f.g. pink, tr pyrite with chl clots
61463		L24E/450S (14+50S)	
61464		L24E/13+00S	float with qtz vein
61465		10S/26+65E	1" qtz vein @ 120
61466		L20E/8+85S	diorite? heavy epidote and qtz veins 2-3% py
61467		L18E/7+15S	1d or 1e, ksp attn 1-2% py
61468		L18E/9+50S	15% qtz blebs, occ atz crystals to 1"; 3(b)
61469		L18E/10+45S	8" qtz vein @70 , coarse qtz & f.g. qtz-chl., tr py, 2 x 3" parallel veins; 1d
61470		L12E/8+18S	f.g. silic Rx; up to 25% qtz vein on o/c clots and veinlets pyrite to 5%
61471		L11+90E/8+18S	f.g. silic Rx with 5% v.f.g. diss. py
61472		L12E/10+50S	2.5' qtz bx zone, grab
61473		L14E/10+50S	1 d, 5% py
61474		L13+00W/5+90S	80% pyrite in quartz
61475		L13W/2+90S	qtz feld porph.; py chalco py stringer, phorp. rhy?
61476		L17W/0+35S	qtz eye rhyolite, 1-2% pyrite
61477		L21E/4+50S	3% pyrite in 1e?
61478		L9W/0+80N	8" qtz vein in epidotized 1e to 3a

APPENDIX III

REPORT ON A TEST INDUCED POLARIZATION SURVEY ON THE POWELL OPTION POWELL LAKE (KASHABOWIE) AREA NORTHWESTERN ONTARIO

On Behalf Of :

Mingold Resources Inc.
P.O. Box 28
Toronto-Dominion Centre
Toronto, Ont.
M5K 1B8

Contact: Peter Martin/Gerry Bidwell
Tel: (416) 941-8716

By:

JVX Limited
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JVX Ref: 8956
October, 1989

JVX

REPORT ON A TEST INDUCED POLARIZATION SURVEY POWELL OPTION, POWELL LAKE (KASHABOWIE) AREA NORTHWESTERN ONTARIO

On Behalf Of

MINGOLD RESOURCES INC.

1. INTRODUCTION

Between October 4th and October 7th, 1989, Time Domain Spectral Induced Polarization/Resistivity surveys were conducted by JVX Ltd. on behalf of Mingold Resources Inc. on the Powell Option, Powell Lake (Kashabowie), Northwestern Ontario.

The objective of the survey was to test the IP response over an area with gold potential as demonstrated by favourable geology and geochemistry, magnetic, and VLF anomalies.

The IP survey employed the pole-dipole array with six potential dipoles (n=1 to 6) and a dipole spacing of 25.0 metres. Three grid lines, L-51E (800S-225N), L-57E (600S-BL), and L-58E (525S-750N) were surveyed. A total of 2.90 line-km of survey coverage was achieved.

The survey party chief and receiver operator was Fred Moher, Senior Geophysical Technician. The transmitter operator was Steven Bortnick, Senior Operator. There were three field assistants. The receiver was a Scintrex IPR-11 Time Domain IP receiver and the transmitter was a Scintrex IPC-7 2.5 kW transmitter. Specification sheets for both equipments are appended to this report. The crew stayed in a Mingold cabin near the grid. The survey area could be reached by motor vehicle.

This report describes the survey and data processing/presentation. A brief description of the results is included. The results are presented as offset pseudosections of the eighth slice of chargeability (M7), apparent resistivity, theoretical chargeability m (M-IP), and time constant tau. Anomaly bars and "n=x" notation denote the positions of IP anomalies and the centre of the interpreted source respectively. The "x" indicates the dipole in which the peak amplitude occurs and gives a sense of the depth to source. Beside this notation is the peak M-IP value for the anomaly and above the line is the range of tau (time constants) values coincident with the anomaly.

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2. SURVEY LOCATION

The survey took place on the Powell Option which lies approximately 2 kilometres south of the southern boundary of Moss Township just north of the Wawiag River and Powell Lake. The property is accessible by road from the Trans-Canada Hwy 11 near Kashabowie, Ontario.

3. DISCUSSION OF RESULTS

The IP survey yielded a number of weak to moderately strong IP anomlies on all three surveyed lines. Some of the better intersections coincide with the gold geochemistry anomalies. The peak amplitudes of chargeability are usually found in the first dipole indicating the overburden cover is shallow.

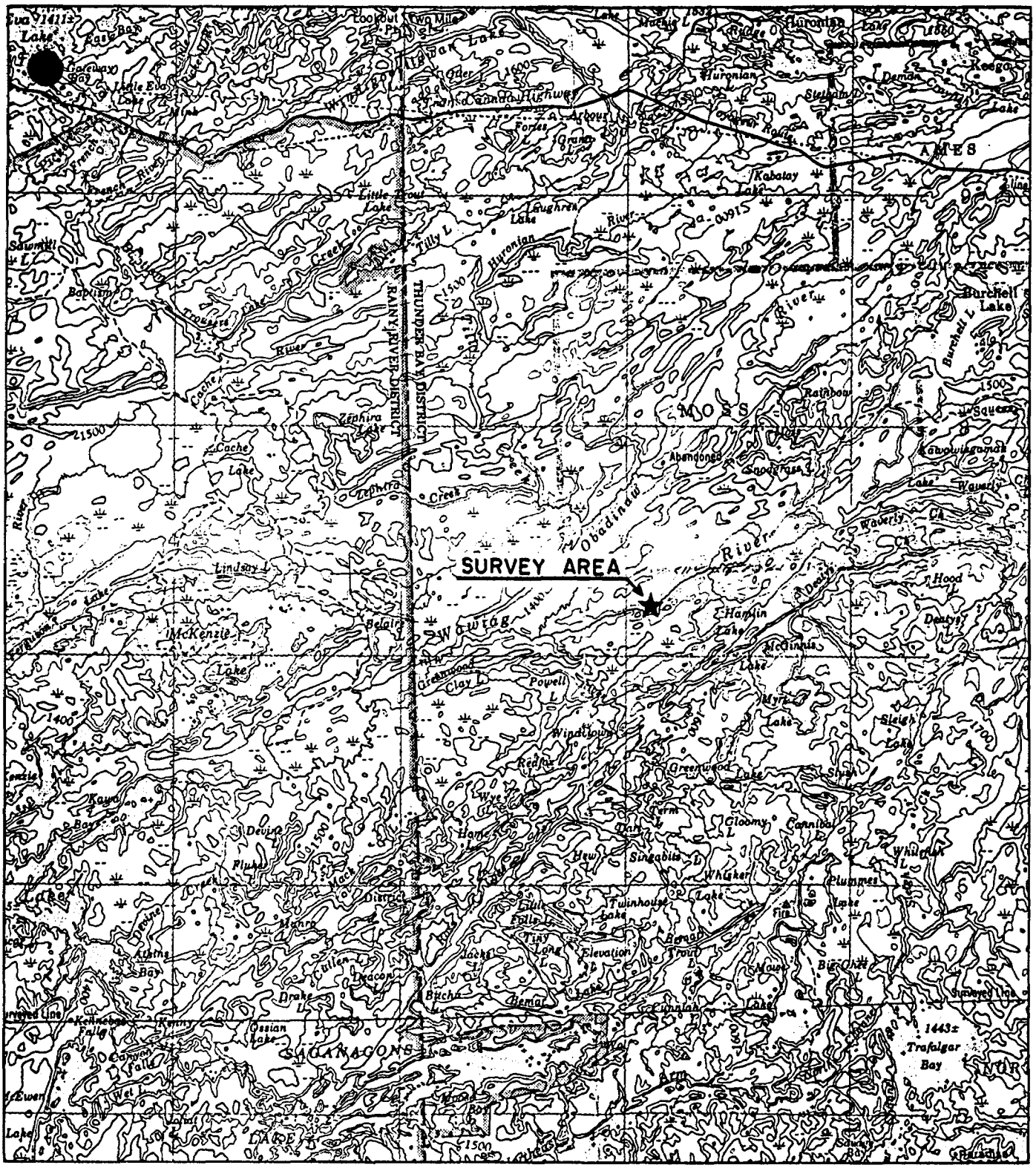
The apparent resistivity results seem to be reflecting the bedrock properties with several VLF conductors exhibiting coincident resistivity lows. Other resistivity lows mapped by the resistivity survey do not show any VLF response. A high M-IP (zero time chargeability) value suggests a greater concentration of sulphides (in a relative sense) than a low M-IP value. M-IP is a linear function of concentration for a given sulphide mineral and only then over a certain range of concentration so it is unrealistic in the real situation where an anomaly is caused by a combination of sulphide minerals to assign more than a rough estimate of percentage sulphides.

For description purposes the individual anomalies have been labelled with a number and letter, the number indicating the survey line and the letter the individual anomaly in question.

Ten anomalies were encountered on L-51E. Anomalies 51A, 51B, and 51E have weak to moderate chargeabilities, low M-IP, and low time constant and they are also associated with uniformly high resistivities. Anomaly 51E is the strongest anomaly on the line and warrants follow-up.

Anomalies 51C, 51D, 51F, and 51I are all associated with narrow resistivity lows. Both Anomalies 51D and 51F are coincident with a VLF conductor. The anomalies are marked by low chargeabilities, low M-IP and low time constant.

Anomalies 51G and 51H are both weak IP anomalies lying on resistivity gradients. They are marked by short time constants and low M-IP. Anomaly 51H is not a well defined anomaly but is coincident with a gold geochemistry anomaly and may be a favourable target. Anomaly 51J lies at the extreme end of the survey line and the line would have to be extended in order to describe a complete picture.



LOCATION MAP

MINGOLD RESOURCES INC.

POWELL LAKE (KASHABOWIE)

NORTHWESTERN ONTARIO

IP/RESISTIVITY SURVEY

Scale : 1 : 250,000

Survey by JVX Ltd.

Figure 1

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Six IP anomalies have been identified on Line 57E. Anomaly 57A although it has an amplitude of 10 mV/V appears to be a surficial anomaly with no bedrock source. Anomaly 57B is coincident with a slight resistivity low. Anomaly 57C centred at station 375S seems to have a source that lies at a greater relative depth than other sources on the grid. The chargeability amplitude and M-IP are high suggesting a good percentage of polarizable minerals. There is no resistivity low to suggest a graphitic source and it lies on the southern edge of the gold geochemistry anomaly. It is considered a good target.

Anomalies 57D, 57E and 57F are all spatially associated with marked resistivity lows. The first two are both of moderate amplitude. They both are characterised by low time constants but the M-IP of 57D is quite large at 448 mV/V. Both anomalies 57D and 57E lie within the gold geochemistry anomaly. Anomaly 57D is a good target and is on strike (if geologic strike is perpendicular to the grid lines) with Anomaly 51F on L-51E. Anomaly 57F is a low amplitude but well defined zone coincident with high resistivity values sitting between two narrow resistivity lows, one of which is marked as a VLF conductor.

Eight IP anomalies, labelled 58A-58H, were encountered on L-58E, including some of the best targets on the survey. A small IP anomaly lies at 425S coincident with a resistivity gradient. The anomaly source is probably surficial. Anomaly 58A is a moderate amplitude IP anomaly which lies in a zone of uniform resistivity. It has low tau, high M-IP, is coincident with a magnetic anomaly and is a good target. Anomaly 58B is a particularly good target as it is marked by high chargeability (M7), low tau, and high M-IP and is coincident with a gold geochemical anomaly. A resistivity high lies adjacent to the IP anomaly which may reflect silica flooding (silicification). A resistivity low at station 100S-125S has a coincident VLF conductor.

Anomaly 58C returned strong chargeability (M7), high M-IP, and high tau. That in conjunction with a low resistivity signature suggest a coarse grained sulphide or graphite source. A coincident gold geochemistry anomaly indicates this is a good target and testing at depth with diamond drilling is warranted. Anomaly 58D is a weak but well defined IP anomaly coincident with a high resistivity anomaly and adjacent to a low resistivity area. Both the spectral tau and M-IP are low.

Anomalies 58E, 58G, and 58G are weak anomalies coincident with uniform resistivity. The spectral computation returned low taus and weak to moderate M-IP. Anomaly 58H is the stronger of the three anomalies. Anomaly 58G is a weak anomaly with a low resistivity association. The tau and M-IP are low, and this is not considered a good target.

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4. CONCLUSIONS

The pole-dipole Induced Polarization survey carried by JVX on the Powell Option has encounterd a number of anomalies on the three survey lines covered. The anomalies occupy a wide spectrum of IP, spectral, and resistivity properties. Many of the stronger and well defined anomalies have good correlation with gold geochemistry anomalies.

Given a favourable target as defined by a strong IP response, low tau, proximity to high resistivity and coincident gold geochemistry then the following anomalies have high priority for follow-up, Anomalies 51E, 51H, 57C, 57D, 57E, 58A, 58B, and 58C.

If there are any questions with regard to the survey or reporting please contact the undersigned at JVX Limited.

Respectfully submitted,

JVX LIMITED

Neil Fiset, B.Sc.
Geophysicist

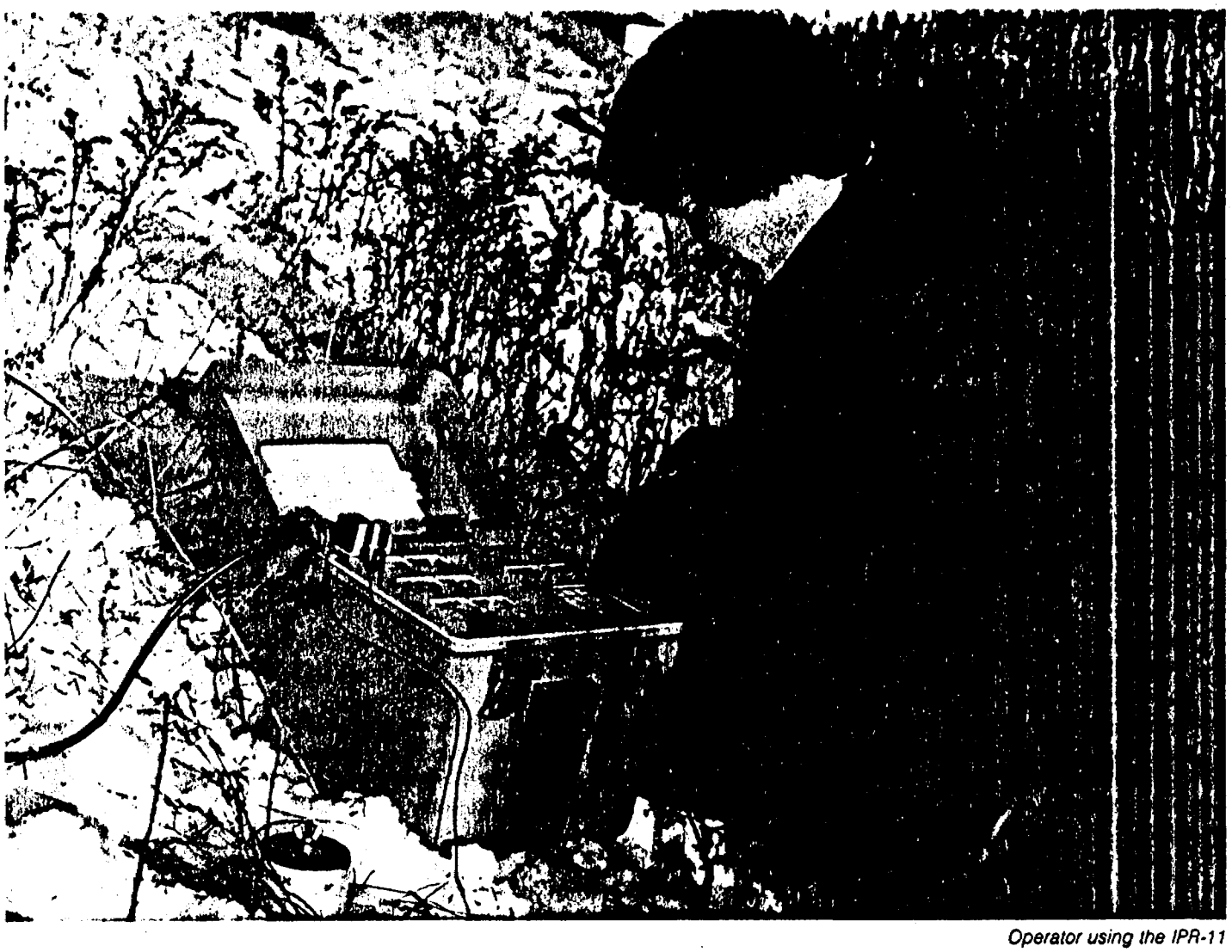
Blaine Webster, B.Sc.
President

Appendix 1

Plates 1 and 2

Plate 1: Pseudosections

SCINTREX IPR-11 Broadband Time Domain IP Receiver



Operator using the IPR-11

The microprocessor-based IPR-11 is the heart of a highly efficient system for measuring, recording and processing spectral IP data. More features than any remotely similar instrument will help you enhance signal/noise, reduce errors and improve data interpretation. On top of all this, tests have shown that survey time may be cut in half, compared with the instrument you may now be using.

The IPR-11 Broadband Time Domain IP Receiver is principally used in electrical (EIP) and magnetic (MIP) induced polarization surveys for disseminated base metal occurrences such as porphyry copper in acidic intrusives and lead-zinc deposits in carbonate rocks. In addition, this receiver is used in geoelectrical surveying for deep groundwater or geothermal resources. For these latter targets, the induced polarization measurements may be as useful as the high accuracy resistivity results since it often happens that geological materials have IP contrasts when resistivity contrasts are absent. A third application of the IPR-11 is in induced polarization research projects such as the study of physical properties of rocks.

Due to its integrated, microprocessor-based design, the IPR-11 provides a large amount of induced polarization transient curve shape information from a remarkably compact, reliable and flexible format. Data from up to six potential dipoles can be measured simultaneously and recorded in solid-state memory. Then, the IPR-11 outputs data as: 1) visual digital display, 2) digital printer profile or pseudo-section plots, 3) digital printer listing, 4) a cassette tape or floppy disk record, 5) to a microcomputer or 6) to a modem unit for transmission by telephone. Using software available from Scintrex, all spectral IP and EM coupling parameters can be calculated on a microcomputer.

The IPR-11 is designed for use with the Scintrex line of transmitters, primarily the TSQ series of current and waveform stabilized models. Scintrex has been active in induced polarization research, development, manufacture, consulting and surveying for over thirty years and offers a full range of time and frequency domain instrumentation as well as all accessories necessary for IP surveying.

Technical Description of the IPR-11 Broadband Time Domain IP Receiver

Input Potential Dipoles	1 to 6 simultaneously.
Input Impedance	4 megohms.
Input Voltage (Vp) Range	100 microvolts to 6 volts for measurement. *Zener diode protection up to 50V.*
Automatic SP Bucking Range	± 1.5 V.
Chargeability (M) Range	0 to 300 mV/V (mils or 0/00)
Absolute Accuracy of Vp, SP and M	Vp; ± 3% of reading for Vp > 100 microvolts. SP; ± 3% of SP bucking range. M; ± 3% of reading or minimum ± 0.5m V/V.
IP Transient Program	Ten transient windows per input dipole. After a delay from current off of t, first four windows each have a width of t, next three windows each have a width of 6t and last three windows each have a width of 12t. The total measuring time is therefore 58t. t can be set at 3, 15, 30 or 60 milliseconds for nominal total receive times of 0.2, 1, 2 and 4 seconds.
VP Integration Time	In 0.2 and 1second receive time modes; 0.51sec. In 2 second mode; 1.02sec. In 4 second mode; 2.04 sec.
Transmitter Timing	Equal on and off times with polarity change each half cycle. On/off times of 1, 2, 4 or 8 seconds with ± 2.5% accuracy are required.
Header Capacity	Up to 17 four digit headers can be stored with each observation.
Data Memory Capacity	Depends on how many dipoles are recorded with each header. If four header items are used with 6 dipoles of SP, Vp and 10 M windows each, then about 200 dipole measurements can be stored. Up to three Optional Data Memory Expansion Blocks are available, each with a capacity of about 200 dipoles.
External Circuit Check	Checks up to six dipoles simultaneously using a 31Hz square wave and readout on front panel meters, in range of 0 to 200k ohms.
Filtering	RF filter, spheric spike removal; switchable 50 or 60Hz notch filters, low pass filters which are automatically removed from the circuit in the 0.2 sec receive time.
Internal Calibrator	1000 mV of SP, 200 mV of Vp and 2.43 mV/V of M provided in 2 sec pulses.

Technical Description of the IPR-11 Broadband Time Domain IP Receiver

Digital Display	Two, 4 digit LCD displays. One presents data, either measured or manually entered by the operator. The second display: 1) indicates codes identifying the data shown on the first display, and 2) shows alarm codes indicating errors.
Analog Meters	Six meters for: 1) checking external circuit resistance, and 2) monitoring input signals.
Digital Data Output	RS-232C compatible, 7 bit ASCII, no parity, serial data output for communication with a computer, digital printer, digital storage device or modem.
Standard Rechargeable Power Supply	Eight rechargeable NiCad D cells provide approximately 15 hours of continuous operation at 25°C. Supplied with a battery charger, suitable for 110/230V, 50 to 400 Hz, 10W.
Disposable Battery Power Supply	At 25°C, about 40 hours of continuous operation are obtained from 8 Eveready E95 or equivalent alkaline D cells. At 25°C, about 16 hours of continuous operation are obtained from 8 Eveready 1150 or equivalent carbon-zinc D cells.
Dimensions	345 mm x 250 mm x 300 mm, including lid.
Weight	10.5 kg, including batteries.
Operating Temperature Range	-20 to +55°C, limited by display.
Storage Temperature Range	-40 to +60°C.
Standard Items	Console with lid and set of rechargeable batteries, RS-232C cable and adapter, 2 copies of manual, battery charger.
Optional Items	Multidipole Potential Cables, Data Memory Expansion Blocks, Crystal Clock, SOFT II Programs, Printer, Cassette Tape Recorder, Disk Drive or Modem.
Shipping Weight	25 kg includes reusable wooden shipping case.

At Scintrex we are continually working to improve our line of products and beneficial innovations may result in changes to our specifications without prior notice.

SCINTREX

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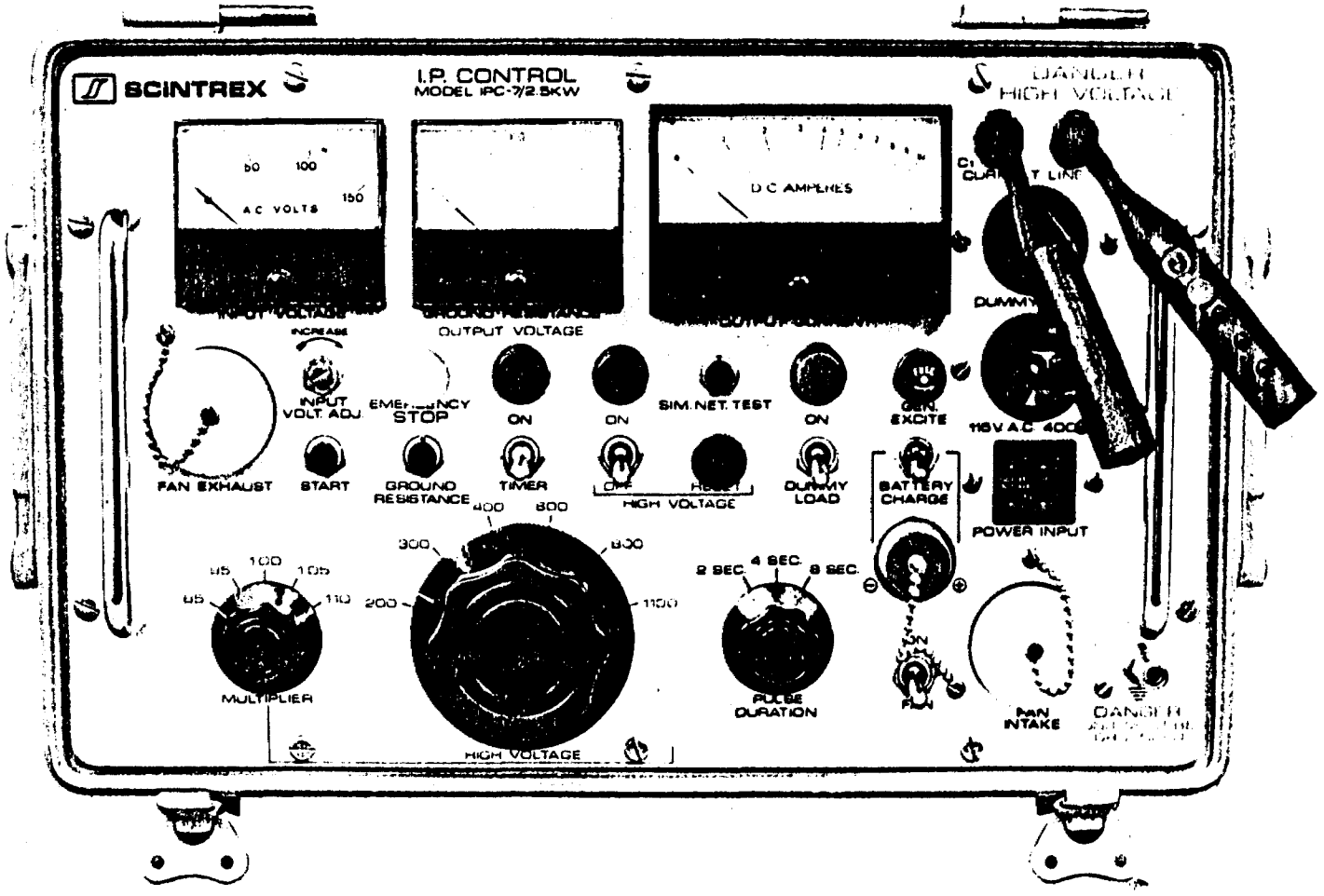
Geophysical and Geochemical
Instrumentation and Services

SCINTREX IPC-7/2.5kW Induced Polarization and Commutated DC Resistivity Transmitter System



Function

The IPC-7/2.5 kW is a medium power transmitter system designed for time domain induced polarization or commutated DC resistivity work. It is the standard power transmitting system used on most surveys under a wide variety of geophysical, topographical and climatic conditions.

The system consists of three modules: A Transmitter Console containing a transformer and electronics, a Motor Generator and a Dummy Load mounted in the Transmitter Console cover. The purpose of the Dummy Load is to accept the Motor Generator output during those parts of the cycle when current is not transmitted into the ground, in order to improve power output and prolong engine life.

The favourable power-weight ratio and compact design of this system make it portable and highly versatile for use with a wide variety of electrode arrays.

Features

Maximum motor generator output, 2.5 kW; maximum power output, 1.85 kW; maximum current output, 10 amperes; maximum voltage output, 1210 volts DC.

Removable circuit boards for ease in servicing.

Automatic on-off and polarity cycling with selectable cycling rates so that the optimum pulse time (frequency) can be selected for each survey.

The overload protection circuit protects the instrument from damage in case of an overload or short in the current dipole circuit.

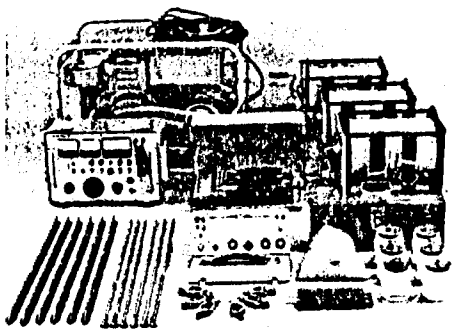
The open loop circuit protects workers by automatically cutting off the high voltage in case of a break in the current dipole circuit.

Both the primary and secondary of the transformer are switch selectable for power matching to the ground load. This ensures maximum power efficiency.

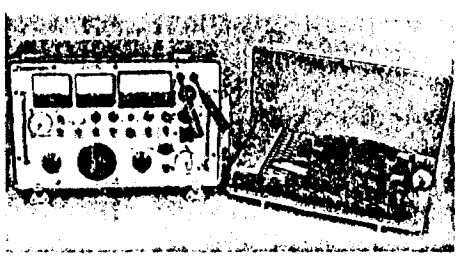
The built-in ohmmeter is used for checking the external circuit resistance to ensure that the current dipole circuit is grounded properly before the high voltage is turned on. This is a safety feature and also allows the operator to select the proper output voltage required to give an adequate current for a proper signal at the receiver.

The programmer is crystal controlled for the very high stability required for broadband (spectral) induced polarization measurements using the Scintrex IPR-11 Broadband Time Domain Receiver.

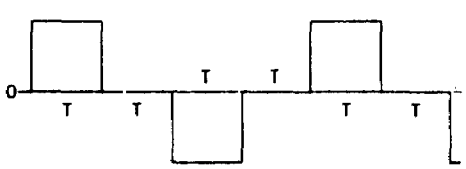
Technical Description of IPC-7/2.5 kW Transmitter System



Complete 2.5kW induced polarization system including motor-generator, reels with wire, tool kit, porous pots, simulator circuit, copper sulphate. IPR-8 receiver, dummy load, transmitter, electrodes and clips.



IPC-7 / 2.5kW transmitter console with lid and dummy load.



Time Domain Waveform

Transmitter Console	
Maximum Output Power	1.85 kW maximum, defined as VI when current is on, into a resistive load
Output Current	10 amperes maximum
Output Voltage	Switch selectable up to 1210 volts DC
Automatic Cycle Timing	T:T:T:T; on:off:on:off
Automatic Polarity Change	Each 2T
Pulse Durations	Standard: T = 2,4 or 8 seconds, switch selectable Optional: T = 1,2,4 or 8 seconds, switch selectable Optional: T = 8,16,32 or 64 seconds, switch selectable
Voltage Meter	1500 volts full scale logarithmic
Current Meter	Standard: 10.0 A full scale logarithmic Optional: 0.3, 1.0, 3.0 or 10.0 A full scale linear, switch selectable
Period Time Stability	Crystal controlled to better than .01%
Operating Temperature Range	-30°C to +55°C
Overload Protection	Automatic shut-off at output current above 10.0 A
Open Loop Protection	Automatic shut-off at current below 100 mA
Undervoltage Protection	Automatic shut-off at output voltage less than 95 V
Dimensions	280 mm x 460 mm x 310 mm
Weight	30 kg
Shipping Weight	41 kg includes reusable wooden crate
Motor Generator	
Maximum Output Power	2.5 kVA, single phase
Output Voltage	110 V AC
Output Frequency	400 Hz
Motor	4 stroke, 8 HP Briggs & Stratton
Weight	59 kg
Shipping Weight	90 kg includes reusable wooden crate

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Telex

Geophysical and Geochemical Instrumentation and Services

APPENDIX IV

ANALYTICAL RESULTS

August, 1988 to June, 1989

BONDAR-CLEGG CO. LTD.
ACTIVATION LABORATORIES LTD.

Part 1: Whole Rock Analyses
Part 2: Au, Ag, Cu, Pb, Zn, As Analyses

Bondar-Clegg & Company Ltd.
5420 Canotek Road
Ottawa, Ontario
K1J [redacted]
(613) [redacted]-2220 Telex 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-52363.1 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: NONE

SUBMITTED BY: E. MOSLEY
DATE PRINTED: 12-OCT-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	SiO2	Silica (SiO2)	67	0.01 PCT	Borate Fusion	DC Plasma
2	TiO2	Titanium (TiO2)	67	0.01 PCT	Borate Fusion	DC Plasma
3	Al2O3	Alumina (Al2O3)	67	0.01 PCT	Borate Fusion	DC Plasma
4	Fe2O3t	Total Iron (Fe2O3t)	67	0.01 PCT	Borate Fusion	DC Plasma
5	MnO	Manganese (MnO)	67	0.01 PCT	Borate Fusion	DC Plasma
6	MgO	Magnesium (MgO)	67	0.01 PCT	Borate Fusion	DC Plasma
7	CaO	Calcium (CaO)	67	0.01 PCT	Borate Fusion	DC Plasma
8	Na2O	Sodium (Na2O)	67	0.01 PCT	Borate Fusion	DC Plasma
9	K2O	Potassium (K2O)	67	0.01 PCT	Borate Fusion	DC Plasma
10	P2O5	Phosphorous (P2O5)	67	0.01 PCT	Borate Fusion	DC Plasma
11	LOI	Loss on Ignition	67	0.01 PCT		Gravimetric
12	Total	Whole Rock Total	67	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	67	-200	67	As Received, No SP	67

REPORT COPIES TO: 935 COBALT CRES.
FAX TO GERRY BIDWELL
ERIC MOSLEY

INVOICE TO: 935 COBALT CRES.

Powell Lake

Bondar-Clegg & Company Ltd.
5420 Canotek Road
Ottawa, Ontario
K1J 8X5
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BC
BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-52063.1

PROJECT: NONE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT
105		49.50	1.00	14.20	13.90	0.25	5.93	9.86	2.40	0.46	0.22	1.25	99.02
106		48.80	0.98	14.50	12.70	0.23	6.38	10.70	1.97	0.28	0.52	0.65	97.71
109		50.50	0.92	13.50	12.50	0.26	6.28	9.39	2.71	0.41	0.31	0.80	97.58
111		48.60	0.79	14.60	11.60	0.25	6.55	11.60	1.63	0.36	0.45	0.65	97.08
113		50.30	0.80	15.00	11.20	0.27	5.69	11.60	1.91	0.27	0.39	0.70	98.14
115		50.20	0.98	14.00	11.40	0.31	6.43	9.68	2.54	0.34	0.51	0.70	97.09
117		62.90	0.94	14.60	6.59	0.29	1.37	3.68	3.52	1.76	0.55	0.90	97.10
119		67.40	0.47	14.70	4.85	0.07	0.88	3.23	3.10	1.29	0.56	0.70	97.25
120		66.30	0.43	16.40	5.34	0.05	0.21	2.97	4.87	0.99	0.34	0.60	98.50
121		69.10	0.15	16.90	1.57	0.03	0.42	2.31	4.80	1.91	<0.01	1.10	98.28
123		68.30	0.50	14.20	4.65	0.06	0.79	2.20	3.72	1.60	0.08	1.40	97.51
124		69.10	0.34	14.20	3.67	0.06	1.24	2.80	3.55	1.56	<0.01	0.45	97.17
125		67.10	0.38	14.50	6.13	0.07	1.03	2.25	3.30	1.86	<0.01	0.75	97.38
126		63.10	0.49	15.80	7.01	0.09	1.57	4.42	3.37	1.51	<0.01	0.45	97.81
127		66.60	0.46	15.40	6.01	0.07	0.73	3.42	4.49	1.53	<0.01	0.50	99.20
128		67.00	0.48	14.80	5.25	0.08	0.86	2.72	3.70	1.93	0.16	0.40	97.38
129		68.10	0.39	14.30	5.23	0.07	0.76	2.42	3.50	1.99	0.25	0.90	97.91
130		69.40	0.43	14.00	4.91	0.08	0.55	2.62	3.84	1.65	0.21	0.50	98.18
132		67.50	0.44	14.40	4.96	0.08	0.88	3.13	3.73	1.79	0.30	0.40	97.60
133		68.10	0.45	14.00	5.00	0.08	0.74	2.64	3.51	1.78	0.40	0.65	97.35
137		68.50	0.49	14.20	5.44	0.09	0.76	3.43	3.70	1.32	0.22	0.30	98.45
138		69.80	0.49	13.70	4.28	0.06	0.94	2.64	3.68	1.29	0.07	0.75	97.69
139		61.80	0.73	14.90	7.51	0.11	1.90	4.56	3.53	1.71	0.19	0.85	97.79
140		66.40	0.50	14.60	5.41	0.08	1.08	2.88	3.61	2.21	0.13	0.50	97.40
142		67.80	0.39	14.70	4.25	0.07	0.60	2.43	3.37	2.48	0.13	0.85	97.06
144		70.30	0.33	14.40	3.70	0.06	0.25	1.64	3.41	3.02	<0.01	0.40	97.51
145		69.30	0.44	14.00	4.63	0.07	0.59	2.54	3.59	2.30	<0.01	0.80	98.26
146		69.20	0.45	14.60	4.82	0.09	0.61	2.40	3.56	1.37	<0.01	0.40	97.50
147		69.70	0.40	13.80	4.53	0.08	0.64	2.97	3.61	1.59	<0.01	0.50	97.82
149		70.10	0.19	15.80	1.64	0.02	0.74	2.96	3.66	1.29	<0.01	1.20	97.60
150		65.80	0.58	14.60	6.35	0.11	1.03	3.66	3.75	1.56	<0.01	0.45	97.89
151		68.70	0.14	14.40	4.51	0.06	1.26	2.75	3.90	1.40	<0.01	0.60	97.72
152		68.30	0.47	14.20	5.27	0.08	0.67	2.53	3.76	1.71	<0.01	0.50	97.49
153		68.60	0.46	14.00	4.85	0.08	0.73	3.40	3.41	1.21	<0.01	0.50	97.24
154		66.10	0.62	12.80	6.98	0.11	0.76	3.10	3.88	1.83	0.34	0.55	97.07
156		69.50	0.47	13.40	5.43	0.08	0.24	2.39	3.50	1.85	0.30	0.50	97.66
157		71.20	0.27	14.20	2.89	0.04	0.08	1.41	3.69	3.03	0.40	0.70	97.91
158		67.80	0.49	14.20	5.30	0.08	0.23	2.91	3.80	1.78	0.41	0.50	97.51
163		66.20	0.44	16.10	3.89	0.07	1.59	2.99	3.34	1.85	0.46	0.80	97.72
165		67.70	0.56	14.50	6.58	0.10	0.78	3.22	3.66	1.71	0.25	0.50	99.57

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Geochemical Lab Report

REPORT: 088-52863.1 | PROJECT: NONE | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Tota %
166		68.90	0.68	13.60	5.43	0.08	0.37	2.51	3.71	1.76	0.37	0.60	98.0
167		61.50	0.80	14.00	9.36	0.17	1.72	5.30	2.61	0.99	0.52	0.40	97.3
168		67.10	0.50	14.60	5.33	0.08	0.24	2.76	3.54	2.02	0.44	0.40	97.0
169		69.50	0.41	13.70	4.48	0.07	0.45	2.21	3.75	2.24	0.17	1.05	98.0
170		71.10	0.45	13.40	4.18	0.07	0.17	3.78	2.72	1.12	0.31	1.05	98.3
171		68.60	0.48	14.10	5.15	0.08	0.60	2.57	3.65	2.10	0.31	0.45	98.0
172		67.80	0.55	12.70	6.19	0.10	1.09	2.85	3.43	1.86	0.33	0.80	97.9
173		66.80	0.48	14.30	5.83	0.09	0.55	3.20	3.63	2.39	0.08	0.70	98.1
174		68.70	0.43	14.40	4.64	0.08	0.65	2.38	3.55	2.19	0.10	0.55	97.6
175		69.00	0.52	12.90	5.93	0.09	0.69	2.89	3.41	1.52	0.13	0.30	97.3
176		65.60	0.65	13.00	7.10	0.12	1.25	3.62	3.57	1.79	0.34	0.60	97.6
177		58.50	1.05	13.40	10.50	0.15	2.01	5.98	3.29	1.15	0.60	0.75	97.3
178		57.50	0.72	17.60	6.65	0.13	1.44	4.66	4.67	3.37	0.34	1.10	98.1
179		70.00	0.46	13.00	4.96	0.08	<0.01	3.12	3.51	1.12	0.39	1.15	97.7
181		66.20	0.46	16.10	3.89	0.07	1.05	4.58	3.46	1.23	0.33	0.50	97.9
182		71.50	0.10	14.50	3.52	0.07	0.59	2.97	3.50	0.89	0.16	0.55	98.3
187		69.80	0.42	14.40	4.53	0.09	<0.01	2.34	3.83	1.45	0.26	0.40	97.5
188		69.60	0.30	15.30	3.04	0.05	0.46	1.79	3.35	2.68	0.24	0.50	97.3
189		51.40	0.76	14.50	12.10	0.20	5.82	9.10	2.00	0.89	0.28	0.45	97.4
190		64.80	0.56	14.40	7.36	0.10	1.10	3.38	2.93	1.47	0.17	1.05	97.3
192		67.70	0.62	13.00	6.42	0.10	1.40	4.07	3.29	1.15	0.51	0.40	98.6
193		68.70	0.17	16.20	1.59	0.02	1.53	1.76	4.96	1.72	0.32	0.50	97.4
194		68.20	0.45	13.90	4.68	0.08	1.21	2.23	3.21	2.63	0.05	0.70	97.3
195		49.90	0.70	14.40	11.80	0.24	7.16	10.70	1.58	0.33	0.19	0.60	97.6
199		49.30	1.12	14.50	14.10	0.21	6.03	8.86	1.51	0.86	0.23	0.45	97.1
200		65.50	0.69	13.50	8.34	0.12	1.21	3.06	3.22	1.36	0.33	0.20	97.5
202		60.00	0.70	14.20	7.09	0.12	3.53	5.28	4.01	1.27	0.37	0.60	97.1

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Geochemical Lab Report

REPORT: 088-52928.1 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: NONE

SUBMITTED BY: E. MOSLEY
DATE PRINTED: 30-SEP-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	SiO2	Silica (SiO2)	13	0.01 PCT	Borate Fusion	DC Plasma
2	TiO2	Titanium (TiO2)	13	0.01 PCT	Borate Fusion	DC Plasma
3	Al2O3	Alumina (Al2O3)	13	0.01 PCT	Borate Fusion	DC Plasma
4	Fe2O3*	Total Iron (Fe2O3*)	13	0.01 PCT	Borate Fusion	DC Plasma
5	MnO	Manganese (MnO)	13	0.01 PCT	Borate Fusion	DC Plasma
6	MgO	Magnesium (MgO)	13	0.01 PCT	Borate Fusion	DC Plasma
7	CaO	Calcium (CaO)	13	0.01 PCT	Borate Fusion	DC Plasma
8	Na2O	Sodium (Na2O)	13	0.01 PCT	Borate Fusion	DC Plasma
9	K2O	Potassium (K2O)	13	0.01 PCT	Borate Fusion	DC Plasma
10	P2O5	Phosphorous (P2O5)	13	0.01 PCT	Borate Fusion	DC Plasma
11	LOI	Loss on Ignition	13	0.01 PCT		Gravimetric
12	Total	Whole Rock Total	13	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	13	-200	13	As Received, No SP	13

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FAX TO GERRY BIDWELL
ERIC MOSLEY

INVOICE TO: 935 COBALT CRES.

Ronald Lake

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Geochemical Lab Report

REPORT: 088-52928.1 PROJECT: NONE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT
203		52.40	0.09	18.00	7.34	0.13	2.74	5.77	2.73	3.52	0.14	6.16	99.02
211		67.40	0.07	17.20	2.80	0.04	1.77	1.18	5.24	1.87	0.25	1.88	99.70
212		63.20	0.93	16.20	4.52	0.11	2.06	4.82	4.44	0.80	0.21	2.50	99.79
213		55.70	0.72	17.60	7.83	0.14	3.54	3.92	3.14	2.24	0.32	4.42	99.57
220		68.20	0.70	13.30	4.94	0.08	1.29	2.70	0.12	4.31	0.21	3.75	99.60
223		47.90	0.42	15.80	9.31	0.16	8.68	6.84	3.35	1.01	0.36	3.43	97.26
224		77.20	0.21	10.66	3.31	0.04	0.66	2.61	0.83	2.74	0.21	1.41	99.68
237		66.90	0.09	15.00	2.58	0.08	1.20	2.37	5.12	2.24	0.19	3.84	99.61
242		53.60	0.19	11.20	21.60	0.46	3.22	3.38	0.05	0.12	0.06	5.28	99.16
248		75.50	0.09	7.40	11.40	0.09	2.39	0.11	0.03	0.27	0.13	2.30	99.71
249		85.80	0.05	5.46	3.20	0.05	0.61	1.24	1.63	0.50	0.11	1.21	99.86
250		56.00	0.14	17.90	6.70	0.15	1.21	4.10	7.15	1.85	0.89	3.63	99.72
251		84.00	0.14	3.86	6.68	0.35	1.44	0.68	0.14	0.16	0.03	-0.26	97.48

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Geochemical Lab Report

REPORT: OOO-53090.1 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: NONE

SUBMITTED BY: E. MUSLEY
DATE PRINTED: 14-OCT-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	SiO2	Silica (SiO2)	7	0.01 PCT	Borate Fusion	DC Plasma
2	TiO2	Titanium (TiO2)	7	0.01 PCT	Borate Fusion	DC Plasma
3	Al2O3	Alumina (Al2O3)	7	0.01 PCT	Borate Fusion	DC Plasma
4	Fe2O3A	Total Iron (Fe2O3A)	7	0.01 PCT	Borate Fusion	DC Plasma
5	MnO	Manganese (MnO)	7	0.01 PCT	Borate Fusion	DC Plasma
6	MgO	Magnesium (MgO)	7	0.01 PCT	Borate Fusion	DC Plasma
7	CaO	Calcium (CaO)	7	0.01 PCT	Borate Fusion	DC Plasma
8	Na2O	Sodium (Na2O)	7	0.01 PCT	Borate Fusion	DC Plasma
9	K2O	Potassium (K2O)	7	0.01 PCT	Borate Fusion	DC Plasma
10	P2O5	Phosphorous (P2O5)	7	0.01 PCT	Borate Fusion	DC Plasma
11	LOI	Loss on Ignition	7	0.01 PCT		Gravimetric
12	Total	Whole Rock Total	7	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	7	-200	7	As Received, No SP	7

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FAX TO GERRY BIDWELL
ERIC MUSLEY

INVOICE TO: 935 COBALT CRES.

POWELL

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Geochemical Lab Report

REPORT: 088-53090.1 | PROJECT: NONE | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3t PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Tot PC
260		58.30	0.29	12.80	2.96	0.06	1.32	2.77	3.04	1.90	<0.01	3.83	87..
261		49.50	0.59	15.30	7.04	0.10	5.14	4.37	3.80	0.48	<0.01	3.62	89.9
264		51.30	0.37	11.90	21.30	0.62	4.05	0.26	0.39	0.25	0.14	4.41	94.7
265		56.90	0.28	15.70	2.93	0.07	1.56	3.79	4.40	1.57	<0.01	3.47	90.6
268		54.10	0.42	15.60	2.68	0.05	1.10	4.75	4.85	1.34	0.13	1.77	86.7
269		68.40	0.54	14.90	5.62	0.09	2.73	3.49	4.81	0.82	<0.01	3.93	105.3
270		57.80	0.23	12.20	2.36	0.04	1.12	1.46	3.67	2.03	<0.01	2.93	83.8

POWELL

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Geochemical Lab Report

REPORT: 088-53367.1 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: POWELL LAKE

SUBMITTED BY: E. MOSLEY
DATE PRINTED: 24-OCT-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	SiO2	Silica (SiO2)	2	0.01 PCT	Borate Fusion	DC Plasma
2	TiO2	Titanium (TiO2)	2	0.01 PCT	Borate Fusion	DC Plasma
3	Al2O3	Alumina (Al2O3)	2	0.01 PCT	Borate Fusion	DC Plasma
4	Fe2O3*	Total Iron (Fe2O3*)	2	0.01 PCT	Borate Fusion	DC Plasma
5	MnO	Manganese (MnO)	2	0.01 PCT	Borate Fusion	DC Plasma
6	MgO	Magnesium (MgO)	2	0.01 PCT	Borate Fusion	DC Plasma
7	CaO	Calcium (CaO)	2	0.01 PCT	Borate Fusion	DC Plasma
8	Na2O	Sodium (Na2O)	2	0.01 PCT	Borate Fusion	DC Plasma
9	K2O	Potassium (K2O)	2	0.01 PCT	Borate Fusion	DC Plasma
10	P2O5	Phosphorous (P2O5)	2	0.01 PCT	Borate Fusion	DC Plasma
11	LOI	Loss on Ignition	2	0.01 PCT		Gravimetric
12	Total	Whole Rock Total	2	0.01 PCT		
13	LOI 2	LOI Post-ignition wt	2	0.001 GM		
14	LOI 1	LOI Pre-ignition wt	2	0.001 GM		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	2	-200	2	Crush,Pulverize -200	2

REPORT COPIES TO: 135 COBALT CRES.
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INVOICE TO: 135 COBALT CRES.

POWELL LAKE

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Geochemical Lab Report

REPORT: 088-53367.1 PROJECT: POWELL LAKE PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT
292		59.40	0.91	16.90	4.82	0.18	0.78	7.56	3.46	1.63	0.16	1.91
299		63.50	0.36	18.10	3.16	0.08	1.12	5.06	4.10	1.88	0.20	0.80

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Geochemical Lab Report

REPORT: 088-53367.1

PROJECT: POWELL LAKE PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Total PCT	LOI 2 GM	LOI 1 GM
292		97.71	1.953	1.991
299		98.36	1.977	1.993

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Geochemical Lab Report

REPORT: 088-52863.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: NONE

SUBMITTED BY: E.MOSLEY
DATE PRINTED: 26-SEP-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	97	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
2	Zn	Zinc	97	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
3	Ag	Silver	97	0.1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
4	Pb	Lead	97	2 PPM	HCl-HNO3, (1:3)	Atomic Absorption
5	As	Arsenic	97	2 PPM	HNO3-HClO4	Colourimetric
6	Au	Gold	97	5 PPB	AQUA REGIA	FA-AA @ 30 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	97	-200	97	Crush,Pulverize -200	97

REMARKS: SAMPLES WERE TOTALLY PREPARED.
SAMPLE 200 WAS RECEIVED EXTRA.

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FAX TO GERRY BIDWELL
ERIC MOSLEY

INVOICE TO: 935 COBALT CRES.

POWELL LAKE

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Geochemical Lab Report

REPORT: 088-52863.0 PROJECT: NONE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
105		65	54	<0.1	2	<2	<5
106		10	37	<0.1	2	<2	<5
107		13	60	<0.1	2	4	<5
108		14	15	<0.1	3	<2	370
109		10	29	<0.1	<2	<2	<5
110		7	85	<0.1	2	2	7
111		158	101	<0.1	3	3	84
112		74	66	<0.1	2	<2	6
113		30	75	<0.1	2	<2	<5
114		14	44	<0.1	2	<2	9
115		16	61	<0.1	3	<2	<5
116		10	89	<0.1	3	<2	21
117		12	68	<0.1	3	<2	7
118		34	109	<0.1	4	6	7
119		41	52	<0.1	3	<2	74
120		9	104	<0.1	3	<2	10
121		90	81	<0.1	3	<2	6
122		10	33	<0.1	2	<2	<5
123		51	70	<0.1	9	<2	<5
124		18	48	<0.1	2	2	<5
125		17	68	<0.1	2	<2	<5
126		8	81	<0.1	4	<2	<5
127		8	63	<0.1	3	2	<5
128		15	42	<0.1	5	<2	<5
129		112	94	<0.1	4	2	5
130		54	85	<0.1	3	8	<5
131		21	157	<0.1	5	<2	<5
132		16	53	<0.1	4	<2	5
133		60	104	<0.1	4	4	<5
134		14	84	<0.1	3	<2	<5
135		24	25	<0.1	4	2	<5
136		9	77	<0.1	3	<2	<5
137		71	103	<0.1	4	<2	7
138		16	77	<0.1	3	<2	<5
139		11	79	<0.1	2	<2	<5
140		17	58	<0.1	2	<2	<5
141		41	103	<0.1	2	2	7
142		50	47	<0.1	2	<2	<5
143		43	81	<0.1	3	<2	<5
144		10	36	<0.1	2	4	<5

Powell Lake

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Geochemical Lab Report

REPORT: 088-52863.0 | PROJECT: NONE | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
145		76	97	<0.1	3	<2	<5
146		56	61	<0.1	2	<2	<5
147		8	60	<0.1	<2	<2	<5
148		5	105	<0.1	4	2	<5
149		11	102	<0.1	3	<2	<5
150		9	88	<0.1	2	<2	<5
151		74	119	<0.1	3	<2	<5
152		7	51	<0.1	<2	<2	<5
153		122	92	<0.1	5	<2	54
154		5	103	<0.1	4	2	<5
155		6	14	<0.1	<2	<2	128
156		100	47	0.1	2	2	12
157		43	104	0.2	6	<2	112
158		580	120	0.5	4	8	64
159		20	59	<0.1	4	<2	63
160		27	76	<0.1	2	<2	18
161		16	88	<0.1	3	16	96
162		147	112	0.1	4	3	36
163		71	41	0.1	5	2	5
165		16	64	<0.1	2	<2	<5
166		3	64	<0.1	6	<2	<5
167		5	94	<0.1	2	<2	<5
168		5	21	0.1	<2	<2	11
169		2	97	<0.1	2	<2	<5
170		3	86	<0.1	2	<2	<5
171		2	100	<0.1	2	<2	<5
172		9	42	<0.1	<2	<2	<5
173		2	30	<0.1	4	<2	<5
174		215	134	0.8	6	5	46
175		10	44	<0.1	4	<2	<5
176		12	106	<0.1	4	<2	<5
177		32	50	<0.1	3	2	<5
178		80	130	0.1	5	4	5
179		4	47	<0.1	2	<2	<5
180		6	20	<0.1	3	2	<5
181		5	35	<0.1	2	<2	<5
182		5	40	<0.1	2	3	<5
183		7	82	<0.1	3	<2	<5
184		1	53	<0.1	2	<2	<5
185		10	77	<0.1	3	<2	<5

Powell Lake

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Geochemical Lab Report

REPORT: 088-52863.0 | PROJECT: NONE | PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
186		60	73	<0.1	3	7	<5
187		7	60	<0.1	2	<2	<5
188		1	55	<0.1	3	<2	<5
189		32	99	<0.1	3	<2	239
190		5	77	<0.1	6	<2	5
191		445	19	<0.1	4	9	39
192		13	115	<0.1	4	2	6
193		25	97	<0.1	4	4	38
194		30	26	<0.1	3	<2	<5
195		28	80	<0.1	2	2	<5
196		45	55	<0.1	2	<2	<5
197		38	72	<0.1	<2	<2	<5
198		3	49	<0.1	3	<2	<5
199		40	33	<0.1	<2	<2	<5
200		2	34	<0.1	2	<2	<5
201		50	51	<0.1	2	<2	5
202		5	40	<0.1	<2	<2	<5

POWELL LAKE

Bondar-Clegg & Company Ltd.
5420 Canotek Road
Ottawa, Ontario
K1J [redacted]
(613) [redacted]-2220 Telex 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-52928.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: NONE

SUBMITTED BY: E. MOSLEY
DATE PRINTED: 27-SEP-88

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	48	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
2	Zn	Zinc	48	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
3	Ag	Silver	48	0.1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
4	Pb	Lead	48	2 PPM	HCl-HNO3, (1:3)	Atomic Absorption
5	As	Arsenic	48	2 PPM	HNO3-HClO4	Colourimetric
6	Au	Gold	48	5 PPB	AQUA REGIA	FA-AA @ 30 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	48	-200	48	Crush,Pulverize -200	48

REMARKS: < MEANS LESS THAN

REPORT COPIES TO: 935 COBALT CRES.
FAX TO GERRY BIDWELL
ERIC MOSLEY

INVOICE TO: 935 COBALT CRES.

POWELL LAKE

Bondar-Clegg & Company Ltd.
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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-52928.0 | PROJECT: NONE | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
203		39	65	<0.1	6	11	17
204		10	101	<0.1	6	6	<5
205		10	21	<0.1	5	10	<5
206		5	8	<0.1	3	8	<5
207		5	92	<0.1	8	5	<5
208		49	58	<0.1	7	2	<5
209		16	66	<0.1	3	11	<5
210		42	74	<0.1	4	9	<5
211		3	43	<0.1	2	9	9
212		9	50	<0.1	<2	5	<5
213		55	67	<0.1	<2	<2	<5
214		14	22	<0.1	<2	<2	<5
215		5	48	<0.1	<2	<2	<5
216		68	73	<0.1	<2	<2	<5
217		7	42	<0.1	<2	<2	<5
218		6	65	<0.1	4	2	<5
219		52	98	<0.1	4	2	<5
220		15	41	<0.1	<2	2	<5
221		6	40	<0.1	<2	10	<5
222		2	87	<0.1	<2	2	6
223		16	41	<0.1	<2	2	<5
224		23	16	<0.1	<2	4	<5
225		74	51	<0.1	2	4	10
226		10	5	<0.1	<2	3	59
227		15	48	<0.1	<2	<2	45
228		14	49	<0.1	<2	3	22
229		4	23	<0.1	<2	<2	<5
230		93	55	<0.1	<2	2	<5
231		30	85	<0.1	<2	<2	<5
232		41	36	<0.1	<2	5	<5
233		17	18	<0.1	<2	<2	<5
234		21	8	0.7	<2	15	135
235		8	4	1.3	4	2	519
236		2	49	<0.1	<2	<2	34
237		2	22	0.1	2	2	10
238		9	16	<0.1	4	2	317
239		19	8	0.1	7	2	9
240		5	18	<0.1	2	5	<5
241		2	25	<0.1	4	3	<5
242		81	156	<0.1	5	7	<5

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-52928.0 PROJECT: NONE PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
243		37	42	<0.1	4	5	6
244		7	40	<0.1	4	<2	<5
246		2	38	<0.1	4	<2	<5
247		25	56	<0.1	4	3	<5
248		3	91	<0.1	4	<2	6
249		9	28	<0.1	5	2	<5
250		15	37	0.1	9	2	53
251		6	35	<0.1	5	2	17

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K1J 8X5
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Geochemical Lab Report

REPORT: 088-53090.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: NONE

SUBMITTED BY: E. MOSLEY
DATE PRINTED: 12-OCT-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	19	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
2	Zn	Zinc	19	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
3	Pb	Lead	19	2 PPM	HCl-HNO3, (1:3)	Atomic Absorption
4	As	Arsenic	19	2 PPM	HNO3-HClO4	Colourimetric
5	Au	Gold	19	5 PPB	AQUA REGIA	FA-AA @ 30 gm weight
6	Au Rew	Au Reweighs	3	1 PPB		
7	Au Rew	Au Reweighs	3	1 PPB		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	19	-200	19	Crush,Pulverize -200	19

REMARKS: < MEANS LESS THAN

REPORT COPIES TO: 935 COBALT CRES.
FAX TO GERRY SIDWELL
ERIC MOSLEY

INVOICE TO: 935 COBALT CRES.

POWELL LAKE

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5420 Canotek Road
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K1J 8X[illegible]
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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 000-53090.0 | PROJECT: NONE | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Pb PPM	As PPM	Au PPB	Au Rew PPB	Au Rew PPB
252		56	31	<2	<2	<5		
253		48	42	2	<2	<5		
254		11	52	2	<2	<5		
255		20	732	4	2	<5		
256		63	271	2	<2	10		
257		10	120	<2	<2	10		
258		5	48	3	<2	<5		
259		79	38	2	2	<5		
260		4	55	2	<2	<5		
261		6	57	<2	<2	<5		
262		66	81	2	<2	<5		
263		6	22	<2	<2	<5		
264		3	103	<2	<2	<5		
265		3	27	2	<2	<5		
266		35	10	37	<2	>20000	>20000	>20000
267		23	74	<2	<2	1000	761	704
268		6	36	<2	<2	500	422	472
269		71	58	<2	<2	75		
270		364	40	<2	<2	205		

Powell L.

Bondar-Clegg & Company Ltd.
5[illegible] Canotek Road
Ottawa, Ontario
K1[illegible]8X5
16[illegible] 749-2220 Te[illegible]3-3233

BONDAR-CLEGG

Certificate of Analysis

REPORT: 088-53090.4 (COMPLETE)

REFERENCE INFO:

CLIENT: A.NGOLD RESOURCES
PROJECT: NONE

SUBMITTED BY: G. BIDWELL
DATE PRINTED: 20-OCT-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	1	0.002 OPT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
OTHER	1	-200	1	Pulverizing	1

REMARKS: REJECT WAS TOTALLY PREPARED.
OTHER SAMPLE TYPE REFERS TO REJECT.

REPORT COPIES TO: 135 COBALT CRES.
FAX TO GERRY BIDWELL

INVOICE TO: 135 COBALT CRES.

POWELL

& Company Ltd.
Canotek Road
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BONDAR-CLEGG

Certificate of Analysis

REPORT: 088-53090.4

PROJECT: NONE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT
266		9.428

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-53367.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: POWELL LAKE

SUBMITTED BY: E. MOSLEY
DATE PRINTED: 26-OCT-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	31	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
2	Zn	Zinc	31	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
3	Ag	Silver	31	0.1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
4	Pb	Lead	31	2 PPM	HCl-HNO3, (1:3)	Atomic Absorption
5	As	Arsenic	31	2 PPM	HNO3-HClO4	Colourimetric
6	Au	Gold	31	5 PPB	AQUA REGIA	FA-AA @ 30 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	31	-200	31	Crush,Pulverize -200	31

REMARKS: < MEANS LESS THAN

REPORT COPIES TO: 135 COBALT CRES.
ERIC MOSLEY

INVOICE TO: 135 COBALT CRES.

POWELL LAKE

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Ottawa, Ontario
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(613) [illegible]-2220 Telex 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 036-53367.0 | PROJECT: POWELL LAKE | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
245		46	44	<0.1	9	3	<5
271		11	26	<0.1	2	<2	<5
272		11	23	2.1	7	7	1100
273		12	30	0.1	2	2	38
274		7	31	<0.1	<2	3	13
275		43	152	0.1	<2	3	67
276		20	28	<0.1	<2	2	9
277		10	40	<0.1	<2	2	8
278		15	18	<0.1	7	3	17
279		33	51	<0.1	4	4	17
280		10	17	<0.1	<2	2	<5
281		9	33	<0.1	3	5	<5
282		34	73	0.1	3	3	<5
283		76	47	<0.1	5	7	14
284		4	7	<0.1	<2	<2	20
285		5	17	<0.1	<2	2	26
286		15	9	0.2	9	14	34
287		5	69	<0.1	2	5	<5
288		21	23	0.3	5	6	20
289		37	49	<0.1	4	3	26
290		6	11	<0.1	2	3	7
291		273	91	10.0	334	6	365
293		62	53	<0.1	16	6	27
294		61	58	<0.1	6	4	11
295		16	29	<0.1	5	<2	<5
296		35	63	<0.1	2	<2	<5
297		38	31	<0.1	2	6	<5
298		9	47	<0.1	4	<2	<5
300		11	11	<0.1	2	4	7
301		30	67	<0.1	2	3	11
302		6	8	<0.1	<2	<2	8

POWELL LAKE

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Ottawa, Ontario
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Geochemical Lab Report

REPORT: 088-54202.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MINGOLD RESOURCES
PROJECT: POWELL LAKE

SUBMITTED BY: E. MOSLEY
DATE PRINTED: 15-DEC-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	25	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
2	Zn	Zinc	25	1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
3	Ag	Silver	25	0.1 PPM	HCl-HNO3, (1:3)	Atomic Absorption
4	Pb	Lead	25	2 PPM	HCl-HNO3, (1:3)	Atomic Absorption
5	As	Arsenic	25	2 PPM	HNO3-HClO4	Colourimetric
6	Au	Gold	25	5 PPB	AQUA REGIA	FA-AA @ 30 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	25	-200	25	Crush,Pulverize -200	25

REMARKS: ALL SAMPLES WERE TOTALLY PREPARED.

REPORT COPIES TO: 935 COBALT CRES.
FAX TO GERRY BIDWELL
ERIC MOSLEY

INVOICE TO: 935 COBALT CRES.

POWELL

Bondar-Clegg & Company Ltd.
5420 Canotek Road
Ottawa, Ontario
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(613) [redacted]-2220 Telex 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 088-54202.0 PROJECT: POWELL LAKE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Pb PPM	As PPM	Au PPB
303		37	46	<0.1	4	<2	6
304		28	61	<0.1	<2	3	<5
305		724	54	1.3	6	52	73
306		8	22	<0.1	2	<2	<5
307		3	5	<0.1	<2	<2	<5
308		84	42	<0.1	<2	4	<5
309		7	25	<0.1	<2	<2	<5
310		8	178	<0.1	<2	2	<5
311		2	21	<0.1	<2	<2	<5
312		14	95	0.2	4	2	16
313		20	13	0.3	3	<2	<5
314		6	14	<0.1	<2	<2	<5
315		26	72	<0.1	3	<2	<5
316		20	97	0.1	<2	<2	<5
317		5	20	<0.1	<2	<2	<5
318		51	115	0.1	2	<2	<5
319		6	175	<0.1	6	<2	<5
320		2	103	<0.1	2	<2	<5
321		3	32	<0.1	<2	<2	<5
322		15	15	0.3	4	<2	<5
323		134	83	<0.1	6	3	<5
324		199	21	0.1	4	2	57
325		11	37	<0.1	14	13	5
326		4	15	<0.1	2	<2	32
327		5	49	<0.1	5	<2	21

Powell

ACTLABS

ACTIVATION LABORATORIES LTD
P.O. Box 1420, 383 Elgin St., Unit 17, Brantford, Ontario, Canada N3T 5T6
Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 938
Work Order: 940
Invoice Date: 27-JUN-89
Your Reference: SAMPLES
Account Number: M-1

MINGOLD RESOURCES INC.
935 COBALT CRESCENT
THUNDERBAY, ONTARIO
P7B 524
ATTN: MR. GERRY BIDWELL

CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

AU	5.	PPB	AG	5.	PPM	AS	2.	PPM	BA	100.	PPM
BR	1.	PPM	CA	1.	%	CO	5.	PPM	CR	10.	PPM
CS	2.	PPM	FE	0.02	%	HF	1.	PPM	HG	1.	PPM
IR	5.	PPB	MO	5.	PPM	NA	500.	PPM	NI	50.	PPM
RB	30.	PPM	SB	0.2	PPM	SC	0.1	PPM	SE	5.	PPM
SR	0.05	%	TA	1.	PPM	TH	0.5	PPM	U	0.5	PPM
W	4.	PPM	ZN	50.	PPM	LA	1.	PPM	CE	3.	PPM
ND	5.	PPM	SM	0.1	PPM	EU	0.2	PPM	TB	0.5	PPM
YB	0.05	PPM	LU	0.05	PPM						
CU	1.	PPM									

AA

CU 0.01%

CERTIFIED BY :

DR. ERIC L. HOFFMAN

$

Activation Laboratories Ltd. Work Order: 940 Report: 938

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR %	TA PPM
61447	81700	130	8	<100	<1	<1	<5	290	<2	0.92	<1	<1	<5	<5	5500	<50	<30	<0.2	1.1	<5	<0.05	<1
61448	852	<5	<2	270	<1	<1	8	82	<2	2.76	<1	<1	<5	<5	<500	<50	<30	0.2	4.2	<5	0.09	<1
61449	371	<5	<2	130	<1	<1	<5	190	<2	0.72	<1	<1	<5	<5	7940	<50	<30	<0.2	1.4	<5	<0.05	<1
61450	291	<5	<2	<100	<1	3	<5	200	<2	0.82	<1	<1	<5	<5	5910	<50	<30	<0.2	1.1	<5	<0.05	<1
61451	17700	23	<2	<100	<1	<1	<5	210	<2	0.97	<1	<1	<5	<5	5240	<50	<30	<0.2	1.1	<5	<0.05	<1
61452-STEWART	334	<5	3	170	<1	6	45	150	<2	9.08	<1	<1	<5	<5	11200	1100	<30	<0.2	23	<5	<0.05	<1

POWELL

Activation Laboratories Ltd. Work Order: 940 Report: 938

Sample description	TH PPM	U PPM	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	CU PPM	Mass g
61447	<0.5	<0.5	<4	<50	2	<3	<5	0.3	<0.2	<0.5	<0.14	<0.05	67	30.00
61448	2.4	0.8	<4	<50	15	20	15	1.8	0.4	<0.5	0.65	0.12	21	30.00
61449	0.9	<0.5	<4	<50	5	7	<5	0.6	<0.2	<0.5	0.31	<0.05	14	30.00
61450	0.5	0.7	<4	<50	4	5	<5	0.4	<0.2	<0.5	0.54	0.06	23	30.00
61451	0.8	<0.5	<4	<50	2	4	<5	0.3	<0.2	<0.5	0.29	<0.05	18	30.00
61452	0.6	<0.5	<4	110	4	5	<5	0.9	0.5	<0.5	0.99	0.15	>5000	30.00

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Telephone (519) 758-0310 ■ Fax (519) 758-8766

Invoice No.: 938
Work Order: 940
Invoice Date: 27-JUN-89
Your Reference: SAMPLES
Account Number: M-1

MINGOLD RESOURCES INC.
935 COBALT CRESCENT
THUNDERBAY, ONTARIO
P7B 524
ATTN: MR. GERRY BIDWELL

CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

AU	5.	PPB	AG	5.	PPM	AS	2.	PPM	BA	100.	PPM
BR	1.	PPM	CA	1.	%	CO	5.	PPM	CR	10.	PPM
CS	2.	PPM	FE	0.02	%	HF	1.	PPM	HG	1.	PPM
IR	5.	PPB	MO	5.	PPM	NA	500.	PPM	NI	50.	PPM
RB	30.	PPM	SB	0.2	PPM	SC	0.1	PPM	SE	5.	PPM
SR	0.05	%	TA	1.	PPM	TH	0.5	PPM	U	0.5	PPM
W	4.	PPM	ZN	50.	PPM	LA	1.	PPM	CE	3.	PPM
ND	5.	PPM	SM	0.1	PPM	EU	0.2	PPM	TB	0.5	PPM
YB	0.05	PPM	LU	0.05	PPM						
CU	1.	PPM									

AA

CU 0.01%

CERTIFIED BY :

DR. ERIC L. HOFFMAN

$

Activation Laboratories Ltd. Work Order: 930 Report: 928

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR %	TA PPM
POW 25+00 3+00S	14	<5	2	390	4	<1	11	67	3	3.46	6	<1	<5	<5	12600	<50	<30	<0.2	8.5	<5	<0.05	<1
POW 25+25E 3+00S	10	<5	3	420	4	4	14	77	2	3.85	5	<1	<5	<5	14800	90	<30	<0.2	11	<5	<0.05	<1
POW 25+50E 3+00S	41	<5	4	500	5	<1	14	70	4	4.61	7	<1	<5	<5	11700	<50	70	0.3	10	<5	<0.05	<1
POW 25+75E 3+00S	6	<5	2	350	<1	<1	13	75	2	3.13	5	<1	<5	<5	14700	<50	43	0.3	9.9	<5	<0.05	<1
POW 26+00E 3+00S	7	<5	<2	230	1	3	10	65	<2	2.62	4	<1	<5	<5	14000	<50	<30	<0.2	8.5	<5	<0.05	<1

Activation Laboratories Ltd. Work Order: 930 Report: 928

Sample description	TH PPM	U PPM	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
POW 25+00 3+00S	3.2	0.9	<4	100	17	23	12	2.1	0.6	<0.5	1.28	0.13	21.36
POW 25+25E 3+00S	2.8	<0.5	<4	<50	15	21	14	2.0	0.6	<0.5	1.21	0.20	26.58
POW 25+50E 3+00S	4.2	1.1	<4	<50	25	40	22	3.3	0.8	<0.5	1.95	0.30	18.41
POW 25+75E 3+00S	2.6	<0.5	<4	<50	12	19	9	1.6	0.6	<0.5	1.02	0.19	27.48
POW 26+00E 3+00S	1.8	1.0	<4	<50	12	17	13	1.5	0.5	<0.5	0.82	0.09	30.00

APPENDIX V

ANALYTICAL RESULTS

August to October, 1989

ACCURASSAY LABORATORIES LTD.

Part 1: Rock Analyses (gold, copper)
Part 2: Soil Analyses (gold, copper)

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28927 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 28 19 89

Work Order # : 181329
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm	
269121	61151	2000	
269122	61152	1300	
269123	61153	110	
269124	61154	76	
269125	61155	24	HEIN EXAM
269126	61156	38	
269127	61157	24	
269128	61158	44	
269129	61159	24	
269130	61160	83	FINLAND BOULDER (MARTIN)
269131	61161	72	
269132	61162	28	NELSON RD (HAYNE)
269133	61455	190	
269134	61456	56	POWELL ROCKS
269135	61457	49	

(1)

LF-30

Per: Andrew Smith

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28906 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 24 19 89

Work Order # : 181329
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
269121	61151	20	
269122	61152	13	
269123	61153	39	
269124	61154	17	
269125	61155	20	
269126	61156	26	
269127	61157	7	
269128	61158	10	
269129	61159	10	
269130	61160	13	
269130	61160	10	Check
269131	61161	454	
269132	61162	762	
269133	61455	10	
269134	61456	7	
269135	61457	7	
269135	61457	7	Check

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Per: Audrey Smith

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29021

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~September 8~~ 19 ~~89~~

Work Order # : T890325
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
507815	61458	33	
507816	61459	7	
507817	61460	11	
507818	61461	5	
507819	61462	5	
507820	61463	73	
507821	61464	6	
507822	61465	5	
507823	61466	7	
507824	61467	4	
507824	61467	4	Check
507825	61468	12	
507826	61469	4	
507827	61470	19	
507828	61471	5	
507829	61472	4	
507830	61473	5	
507830	61473	5	Check

(3)

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29154

Gerald Bidwell
Minqold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 21 19 89

Work Order # : T890325
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
507815	61458	15
507816	61459	22
507817	61460	61
507818	61461	14
507819	61462	30
507820	61463	31
507821	61464	48
507822	61465	2
507823	61466	160
507824	61467	52
507825	61468	16
507826	61469	28
507827	61470	24
507828	61471	4
507829	61472	48
507830	61473	12

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29093

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : T890344
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508133	61474	74	
508134	61475	8	
508135	61476	<2	
508136	61477	2	
508137	61478	<2	
508137	61478	<2	Check

(3)

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29162

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 21 19 __

Work Order # : T890344
Project :

SAMPLE NUMBERS		Copper
Accurassay	Customer	ppm
508133	61474	62
508134	61475	370
508135	61476	75
508136	61477	110
508137	61478	28

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28923

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 28 19 83

Work Order # : 181330A
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
269162	1	26	
269163	2	26	
269164	3	7	
269165	4	3	
269166	5	7	
269167	6	13	
269168	7	3	
269169	8	3	
269170	9	10	
269171	10	17	
269171	10	13	Check
269172	11	7	
269173	12	7	
269174	13	7	
269175	14	7	
269176	15	10	
269177	16	7	
269178	17	1062	
269179	18	10	
269180	19	10	
269180	19	10	Check
269181	20	23	
269182	21	7	
269183	22	7	
269184	23	17	
269185	24	10	
269186	25	13	
269187	26	10	
269188	27	13	
269189	28	50	
269189	28	79	Check

Powell
Sons

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Gerald Bidwell
Mingold Resources Inc.
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Thunder Bay, Ontario
P7B 5Z4

Date: August 28 19 89

Work Order # : 181330A
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
269190	29	13	
269191	30	318	
269192	31	13	
269193	32	23	
269194	33	13	
269195	34	60	
269196	35	46	
269197	36	993	
269198	37	26	
269198	37	17	Check
269199	38	242	
269200	39	20	
269201	40	17	
269202	41	10	
269203	42	13	
269204	43	10	
269205	44	17	
269206	45	10	
269207	46	10	
269207	46	33	Check
269208	47	13	
269209	48	20	
269210	49	10	
269211	50	26	
269211	50	17	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 28 19 39

Work Order # : 181330A
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
269190	29	13	
269191	30	318	
269192	31	13	
269193	32	23	
269194	33	13	
269195	34	60	
269196	35	46	
269197	36	993	
269198	37	26	
269198	37	17	Check
269199	38	242	
269200	39	20	
269201	40	17	
269202	41	10	
269203	42	13	
269204	43	10	
269205	44	17	
269206	45	10	
269207	46	10	
269207	46	33	Check
269208	47	13	
269209	48	20	
269210	49	10	
269211	50	26	
269211	50	17	Check

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Soils

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28925 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 28 19 89

Work Order # : 181330A
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
269162	1	24
269163	2	11
269164	3	18
269165	4	12
269166	5	23
269167	6	12
269168	7	20
269169	8	48
269170	9	18
269171	10	30
269172	11	23
269173	12	14
269174	13	21
269175	14	13
269176	15	18
269177	16	18
269178	17	84
269179	18	21
269180	19	18
269181	20	11
269182	21	8
269183	22	7
269184	23	12
269185	24	17
269186	25	16
269187	26	20
269188	27	21
269189	28	21
269190	29	48
269191	30	56
269192	31	14

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 28 19 80

Work Order # : 131330A
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
269193	32	32
269194	33	16
269195	34	27
269196	35	32
269197	36	20
269198	37	18
269199	38	24
269200	39	40
269201	40	47
269202	41	16
269203	42	24
269204	43	16
269205	44	14
269206	45	20
269207	46	24
269208	47	22
269209	48	10
269210	49	17
269211	50	19

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28938

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 29 19 89

Work Order # : 181330B
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
269212	51	10	
269213	52	7	
269214	53	10	
269215	54	26	
269216	55	7	
269217	56	7	
269218	57	63	
269219	58	3	
269220	59	10	
269221	60	7	
269221	60	7	Check
269222	61	23	
269223	62	7	
269224	63	13	
269225	64	13	
269226	65	23	
269227	66	13	
269228	67	13	
269229	68	13	
269230	69	10	
269230	69	7	Check
269231	70	10	
269232	71	7	
269233	72	7	
269234	73	7	
269235	74	3	
269236	75	10	
269237	76	7	
269238	77	3	
269239	78	40	
269239	78	23	Check

(2)

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 29 19 89

Work Order # : 181330B
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
269240	79	20	
269241	80	13	
269242	81	17	
269243	82	7	
269244	83	7	
269245	84	13	
269246	85	10	
269247	86	43	
269248	87	23	
269248	87	7	Check
269249	88	3	
269250	89	13	
269251	90	7	
269252	91	10	
269253	92	10	
269254	93	7	
269255	94	7	
269256	95	30	
269257	96	3	
269257	96	7	Check
269258	97	13	
269259	98	10	
269260	99	56	
269261	100	36	
269261	100	17	Check

(2)

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 29 19 89

Work Order # : 181330B
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
269212	51	22
269213	52	14
269214	53	22
269215	54	11
269216	55	22
269217	56	28
269218	57	27
269219	58	12
269220	59	19
269221	60	10
269222	61	31
269223	62	17
269224	63	48
269225	64	12
269226	65	26
269227	66	15
269228	67	12
269229	68	41
269230	69	21
269231	70	25
269232	71	24
269233	72	41
269234	73	18
269235	74	11
269236	75	13
269237	76	16
269238	77	26
269239	78	14
269240	79	28
269241	80	26
269242	81	82

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28941 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 29 19 89

Work Order # : 181330B
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
269243	82	32
269244	83	44
269245	84	10
269246	85	8
269247	86	46
269248	87	32
269249	88	62
269250	89	22
269251	90	7
269252	91	11
269253	92	42
269254	93	22
269255	94	31
269256	95	20
269257	96	14
269258	97	9
269259	98	16
269260	99	16
269261	100	19

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28953 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 20 19 89

Work Order # : 891679
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200595	101	44	
200596	102	11	
200597	103	16	
200598	104	11	
200599	105	6	
200600	106	7	
200601	107	10	
200602	108	5	
200603	109	14	
200604	110	5	
200604	110	6	Check
200605	111	4	
200606	115	17	
200607	120	9	
200608	121	18	
200609	122	13	
200610	123	9	
200611	124	3	
200612	125	6	
200613	127	12	
200613	127	12	Check
200614	128	7	
200615	129	<2	
200616	130	14	
200617	131	5	
200618	132	5	
200619	133	5	
200620	134	8	
200621	135	14	
200622	138	55	
200622	138	Insufficient sample	Check

(2)

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28954 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 30 19 80

Work Order # : 891579
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200623	139	8	
200624	140	7	
200625	141	13	
200626	142	25	
200627	143	10	
200628	144	23	
200629	145	7	
200630	146	9	
200631	147	4	
200631	147	11	Check
200632	150	<2	
200633	152	14	
200634	154	9	
200635	158	3	
200636	159	8	
200637	160	4	
200638	161	5	
200639	171	10	
200640	172	8	
200640	172	7	Check
200641	173	13	
200642	175	8	
200643	176	17	
200644	177	3	
200644	177	Insufficient sample	Check

(2)

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28988

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~September 5~~ 19 ~~89~~

Work Order # : 891579
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200595	101	16
200596	102	22
200597	103	23
200598	104	21
200599	105	15
200600	106	48
200601	107	72
200602	108	78
200603	109	24
200604	110	17
200605	111	7
200606	115	22
200607	120	47
200608	121	150
200609	122	11
200610	123	25
200611	124	16
200612	125	14
200613	127	23
200614	128	10
200615	129	12
200616	130	28
200617	131	14
200618	132	21
200619	133	17
200620	134	33
200621	135	27
200622	138	27
200623	139	26
200624	140	26
200625	141	17

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Certificate of Analysis

28989

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~September 5~~ 19 ~~89~~

Work Order # : 891679
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200626	142	17
200627	143	10
200628	144	10
200629	145	16
200630	146	12
200631	147	17
200632	150	16
200633	152	24
200634	154	48
200635	158	16
200636	159	10
200637	160	12
200638	161	14
200639	171	11
200640	172	18
200641	173	33
200642	175	33
200643	176	18
200644	177	10

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28967 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 11 19 89

Work Order # : 891630
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200645	178	21	
200646	179	10	
200647	182	20	
200648	183	14	
200649	200	16	
200650	201	15	
200651	202	9	
200652	203	8	
200653	204	12	
200654	205	12	
200654	205	22	Check
200655	206	8	
200656	207	25	
200657	208	3	
200658	209	6	
200659	210	5	
200660	211	7	
200661	212	3	
200662	213	4	
200663	214	14	
200663	214	17	Check
200664	215	15	
200665	216	18	
200666	217	4	
200667	218	12	
200668	219	3	
200669	220	7	
200670	221	4	
200671	222	6	
200672	223	4	
200672	223	12	Check

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28968 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~August 31~~ 19 ~~89~~

Work Order # : 891680
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200673	224	14	
200674	225	15	
200675	226	<2	
200676	227	13	
200677	228	4	
200678	229	7	
200679	230	6	
200680	231	4	
200681	232	7	
200681	232	Insufficient sample	Check
200682	233	5	
200683	234	10	
200684	235	25	
200685	236	16	
200686	237	5	
200687	238	4	
200688	239	15	
200689	240	4	
200690	241	62	
200690	241	53	Check
200691	242	22	
200692	243	7	
200693	244	16	
200694	245	5	
200694	245	4	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 89

Work Order # : 391680
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200645	178	39
200646	179	22
200647	182	20
200648	183	22
200649	200	22
200650	201	16
200651	202	23
200652	203	46
200653	204	22
200654	205	47
200655	206	47
200656	207	17
200657	208	38
200658	209	42
200659	210	27
200660	211	69
200661	212	36
200662	213	34
200663	214	16
200664	215	20
200665	216	19
200666	217	36
200667	218	23
200668	219	22
200669	220	36
200670	221	25
200671	222	28
200672	223	42
200673	224	64
200674	225	20
200675	226	10

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 89

Work Order # : 891680
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200676	227	15
200677	228	17
200678	229	12
200679	230	19
200680	231	12
200681	232	38
200682	233	11
200683	234	10
200684	235	20
200685	236	12
200686	237	14
200687	238	11
200688	239	10
200689	240	26
200690	241	62
200691	242	15
200692	243	17
200693	244	10
200694	245	18

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Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 391681
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200695	246	5	
200696	247	8	
200697	248	11	
200698	249	6	
200699	250	8	
200700	251	4	
200701	252	4	
200702	253	3	
200703	254	3	
200704	255	8	
200704	255	5	Check
200705	256	7	
200706	257	3	
200707	258	4	
200708	259	3	
200709	260	3	
200710	261	14	
200711	262	16	
200712	263	22	
200713	264	<2	
200713	264	<2	Check
200714	265	6	
200715	266	17	
200716	269	3	
200717	270	7	
200718	271	2	
200719	272	3	
200720	273	<2	
200721	274	<2	
200722	275	<2	
200722	275	<2	Check

(29)

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Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891681
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200723	276	5	
200724	277	2	
200725	278	4	
200726	279	<2	
200727	280	<2	
200728	281	7	
200729	282	5	
200730	283	<2	
200731	284	5	
200731	284	<2	Check
200732	285	16	
200733	286	3	
200734	287	3	
200735	288	3	
200736	289	<2	
200737	290	<2	
200738	291	3	
200739	292	<2	
200740	293	<2	
200740	293	<2	Check
200741	294	8	
200742	295	<2	
200743	296	<2	
200744	297	<2	
200744	297	<2	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 89

Work Order # : 891631
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200695	246	12
200696	247	24
200697	248	27
200698	249	47
200699	250	13
200700	251	9
200701	252	18
200702	253	9
200703	254	10
200704	255	25
200705	256	59
200706	257	17
200707	258	16
200708	259	14
200709	260	16
200710	261	34
200711	262	64
200712	263	12
200713	264	12
200714	265	32
200715	266	130
200716	269	65
200717	270	18
200718	271	12
200719	272	86
200720	273	10
200721	274	12
200722	275	15
200723	276	27
200724	277	32
200725	278	70

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 89

Work Order # : 891681
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200726	279	11
200727	280	28
200728	281	37
200729	282	12
200730	283	13
200731	284	11
200732	285	15
200733	286	28
200734	287	14
200735	288	29
200736	289	26
200737	290	14
200738	291	14
200739	292	12
200740	293	14
200741	294	79
200742	295	26
200743	296	22
200744	297	17

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28971 Gerald Bidwell
Mingold Resources Inc.
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Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891692
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200745	298	8	
200746	299	12	
200747	300	9	
200748	303	5	
200749	306	9	
200750	307	13	
200751	308	5	
200752	309	10	
200753	310	18	
200754	311	5	
200754	311	6	Check
200755	313	16	
200756	314	6	
200757	315	9	
200758	316	6	
200759	317	13	
200760	318	11	
200761	319	6	
200762	320	8	
200763	321	6	
200763	321	6	Check
200764	322	8	
200765	323	9	
200766	324	4	
200767	325	10	
200768	326	5	
200769	327	8	
200770	328	12	
200771	329	15	
200772	331	13	
200772	331	9	Check

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28972 Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891682
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200773	332	10	
200774	333	9	
200775	334	9	
200776	335	17	
200777	336	6	
200778	337	6	
200779	338	8	
200780	339	5	
200781	340	8	
200781	340	6	Check
200782	341	10	
200783	342	6	
200784	344	5	
200785	345	11	
200786	346	7	
200787	347	8	
200788	348	5	
200789	349	5	
200790	350	7	
200790	350	10	Check
200791	351	9	
200792	352	2	
200793	353	11	
200794	354	12	
200794	354	Insufficient sample	Check

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Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 89

Work Order # : 391682
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200745	298	22
200746	299	26
200747	300	17
200748	303	12
200749	306	24
200750	307	11
200751	308	8
200752	309	34
200753	310	23
200754	311	34
200755	313	15
200756	314	13
200757	315	24
200758	316	20
200759	317	10
200760	318	27
200761	319	20
200762	320	40
200763	321	22
200764	322	9
200765	323	15
200766	324	18
200767	325	16
200768	326	11
200769	327	14
200770	328	15
200771	329	12
200772	331	20
200773	332	14
200774	333	12
200775	334	14

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 89

Work Order # : 891682
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200776	335	22
200777	336	32
200778	337	15
200779	338	15
200780	339	11
200781	340	14
200782	341	35
200783	342	10
200784	344	25
200785	345	16
200786	346	14
200787	347	19
200788	348	14
200789	349	28
200790	350	14
200791	351	21
200792	352	15
200793	353	31
200794	354	37

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28973 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891680
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200795	355	9	
200796	356	2	
200797	363	<2	
200798	368	2	
200799	369	4	
200800	374	3	
200801	377	3	
200802	378	3	
200803	379	4	
200804	380	2	
200804	380	<2	Check
200805	381	3	
200806	385	3	
200807	388	3	
200808	389	3	
200809	390	4	
200810	391	3	
200811	392	2	
200812	393	3	
200813	395	2	
200813	395	16	Check
200814	400	9	
200815	401	2	
200816	402	2	
200817	403	5	
200818	404	3	
200819	405	3	
200820	406	5	
200821	409	4	
200822	410	866	
200822	410	744	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891683
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200823	411	7	
200824	412	3	
200825	414	4	
200826	501	3	
200827	502	3	
200828	503	4	
200829	504	13	
200830	505	3	
200831	506	10	
200831	506	6	Check
200832	507	3	
200833	508	10	
200834	509	3	
200835	510	4	
200836	511	3	
200837	512	4	
200838	513	9	
200839	514	6	
200840	515	4	
200840	515	8	Check
200841	516	7	
200842	517	4	
200843	518	13	
200844	519	3	
200844	519	Insufficient sample	Check

(2)

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 83

Work Order # : 891683
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200795	355	55
200796	356	9
200797	363	26
200798	368	13
200799	369	45
200800	374	29
200801	377	46
200802	378	12
200803	379	14
200804	380	12
200805	381	13
200806	385	15
200807	388	14
200808	389	16
200809	390	20
200810	391	11
200811	392	21
200812	393	16
200813	395	14
200814	400	26
200815	401	14
200816	402	10
200817	403	17
200818	404	14
200819	405	9
200820	406	80
200821	409	18
200822	410	6
200823	411	34
200824	412	25
200825	414	18

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~September 5~~ 19 ~~89~~

Work Order # : 391683
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200826	501	15
200827	502	12
200828	503	19
200829	504	9
200830	505	14
200831	506	18
200832	507	19
200833	508	28
200834	509	21
200835	510	11
200836	511	24
200837	512	19
200838	513	42
200839	514	74
200840	515	25
200841	516	12
200842	517	20
200843	518	140
200844	519	42

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28975 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891684
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200845	520	4	
200846	521	6	
200847	522	<2	
200848	523	<2	
200849	524	<2	
200850	525	<2	
200851	526	3	
200852	527	2	
200853	528	4	
200854	529	4	
200854	529	4	Check
200855	530	13	
200856	531	2	
200857	532	2	
200858	533	2	
200859	534	2	
200860	535	3	
200861	536	4	
200862	537	4	
200863	538	5	
200863	538	4	Check
200864	539	7	
200865	540	8	
200866	541	7	
200867	542	4	
200868	543	5	
200869	544	7	
200870	545	18	
200871	546	17	
200872	547	11	
200872	547	Insufficient sample	Check

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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

28976

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891684
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
200873	548	10	
200874	549	8	
200875	551	7	
200876	552	7	
200877	553	3	
200878	554	8	
200879	555	10	
200880	556	10	
200881	557	14	
200881	557	6	Check
200882	558	6	
200883	559	9	
200884	560	8	
200885	561	3	
200886	562	5	
200887	563	3	
200888	564	3	
200889	565	3	
200890	566	4	
200890	566	5	Check
200891	567	6	
200892	568	8	
200893	569	5	
200894	570	5	
200895	571	6	
200896	572	9	
200897	573	5	
200898	574	5	
200899	575	5	
200899	575	7	Check
200900	576	6	

(9)

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: August 31 19 89

Work Order # : 891584
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
100901	577	34	
100901	577	50	Check

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28998

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 5 19 89

Work Order # : 891684
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200845	520	32
200846	521	36
200847	522	28
200848	523	8
200849	524	11
200850	525	15
200851	526	16
200852	527	14
200853	528	16
200854	529	26
200855	530	42
200856	531	15
200857	532	11
200858	533	13
200859	534	9
200860	535	12
200861	536	26
200862	537	34
200863	538	58
200864	539	45
200865	540	130
200866	541	74
200867	542	23
200868	543	22
200869	544	12
200870	545	21
200871	546	96
200872	547	16
200873	548	66
200874	549	12
200875	551	8

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28999

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~September 5~~ 19 ~~19~~

Work Order # : 891684
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
200876	552	14
200877	553	13
200878	554	33
200879	555	43
200880	556	17
200881	557	20
200882	558	13
200883	559	57
200884	560	69
200885	561	32
200886	562	20
200887	563	17
200888	564	32
200889	565	33
200890	566	15
200891	567	37
200892	568	22
200893	569	10
200894	570	14
200895	571	17
200896	572	37
200897	573	51
200898	574	18
200899	575	14
200900	576	12
200901	577	14

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29155

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 21 19 89

Work Order # : T890327
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
507842	800	14
507843	801	14
507844	802	14
507845	803	33
507846	804	30
507847	805	31
507848	806	43
507849	807	15
507850	808	28
507851	809	28
507852	810	30
507853	811	12
507854	812	24
507855	813	9
507856	814	21
507857	815	15
507858	816	18
507859	817	22
507860	818	45
507861	819	28
507862	820	16
507863	821	33
507864	822	12
507865	823	11
507866	824	14
507867	825	16
507868	826	18
507869	827	18
507870	828	17
507871	829	15
507872	830	10

(3)

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29156

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 21 19 89

Work Order # : T890327
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
507873	831	34
507874	832	8
507875	833	17
507876	834	54
507877	835	17

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29163

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 21 19 89

Work Order # : T390331
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
507935	836	14
507936	837	35
507937	838	72
507938	839	18
507939	840	26
507940	841	42
507941	842	54
507942	843	17
507943	844	13
507944	845	16
507945	846	26
507946	847	20
507947	848	18
507948	849	23
507949	850	14
507950	851	23
507951	852	18
507952	853	32
507953	854	23
507954	855	68
507955	856	10
507956	857	16
507957	858	29
507958	859	12
507959	860	13
507960	861	29
507961	862	36
507962	863	18
507963	864	20
507964	865	19
507965	866	34

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29164

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 21 19 89

Work Order # : T890331
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
507966	867	21
507967	868	22
507968	869	20
507969	870	14
507970	871	48
507971	872	92
507972	873	23
507973	874	20
507974	875	44
507975	876	13
507976	877	13
507977	878	8
507978	879	20
507979	880	18
507980	881	32
507981	882	49
507982	883	52
507983	884	25
507984	885	57

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29052

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 12 19 89

Work Order # : T890336
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508017	886	33	
508018	887	35	
508019	888	14	
508020	889	13	
508021	890	18	
508022	891	15	
508023	892	11	
508024	893	10	
508025	894	5	
508026	895	7	
508026	895	6	Check
508027	896	5	
508028	897	4	
508029	898	3	
508030	899	4	
508031	900	6	
508032	901	3	
508033	902	3	
508034	903	5	
508035	904	50	
508035	904	Insufficient sample	Check
508036	905	7	
508037	906	3	
508038	907	8	
508039	908	4	
508040	909	12	
508041	910	5	
508042	911	6	
508043	912	4	
508044	913	7	
508044	913	9	Check

(3)

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29053

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 13 19 89

Work Order # : T890336
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508045	914	4	
508046	915	5	
508047	916	4	
508048	917	5	
508049	918	18	
508050	919	4	
508051	920	4	
508052	921	3	
508053	922	3	
508053	922	3	Check
508054	923	11	
508055	924	3	
508056	925	5	
508057	926	3	
508058	927	6	
508059	928	6	
508060	929	6	
508061	930	7	
508062	931	6	
508062	931	3	Check
508063	932	4	
508064	933	3	
508065	934	3	
508066	935	3	
508066	935	Insufficient sample	Check

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29157

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 21 19 89

Work Order # : T890335
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508017	886	24
508018	887	60
508019	888	28
508020	889	18
508021	890	71
508022	891	16
508023	892	11
508024	893	13
508025	894	14
508026	895	35
508027	896	11
508028	897	29
508029	898	13
508030	899	12
508031	900	42
508032	901	28
508033	902	24
508034	903	21
508035	904	110
508036	905	46
508037	906	24
508038	907	15
508039	908	24
508040	909	32
508041	910	20
508042	911	16
508043	912	15
508044	913	27
508045	914	16
508046	915	23
508047	916	71

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29158

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 524

Date: September 21 19 89

Work Order # : T890336
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508048	917	16
508049	918	18
508050	919	27
508051	920	31
508052	921	17
508053	922	28
508054	923	25
508055	924	13
508056	925	23
508057	926	21
508058	927	25
508059	928	21
508060	929	48
508061	930	21
508062	931	36
508063	932	19
508064	933	22
508065	934	11
508066	935	28

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Per: Gordon Smith

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29016

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 7 19 89

Work Order # : T890327
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
507842	800	3	
507843	801	2	
507844	802	<2	
507845	803	<2	
507846	804	2	
507847	805	5	
507848	806	3	
507849	807	33	
507850	808	9	
507851	809	5	
507851	809	5	Check
507852	810	7	
507853	811	4	
507854	812	5	
507855	813	4	
507856	814	3	
507857	815	2	
507858	816	<2	
507859	817	2	
507860	818	3	
507860	818	7	Check
507861	819	5	
507862	820	4	
507863	821	3	
507864	822	2	
507865	823	2	
507866	824	5	
507867	825	2	
507868	826	3	
507869	827	3	
507869	827	4	Check

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29017

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~September 7~~ 19 ~~89~~

Work Order # : T890327
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
507870	828	5	
507871	829	3	
507872	830	2	
507873	831	3	
507874	832	4	
507875	833	8	
507876	834	4	
507877	835	3	
507877	835	4	Check

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29035

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 11 19 89

Work Order # : T890331
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
507935	836	4	
507936	837	5	
507937	838	5	
507938	839	4	
507939	840	4	
507940	841	4	
507941	842	3	
507942	843	16	
507943	844	3	
507944	845	4	
507944	845	3	Check
507945	846	4	
507946	847	6	
507947	848	14	
507948	849	3	
507949	850	3	
507950	851	12	
507951	852	3	
507952	853	5	
507953	854	2	
507953	854	4	Check
507954	855	17	
507955	856	6	
507956	857	4	
507957	858	6	
507958	859	4	
507959	860	3	
507960	861	13	
507961	862	5	
507962	863	3	
507962	863	4	Check

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29036

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 11 19 83

Work Order # : T890331
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
507963	864	3	
507964	865	4	
507965	866	37	
507966	867	4	
507967	868	9	
507968	869	5	
507969	870	11	
507970	871	9	
507971	872	29	
507971	872	Insufficient sample	Check
507972	873	8	
507973	874	4	
507974	875	3	
507975	876	4	
507976	877	5	
507977	878	5	
507978	879	5	
507979	880	3	
507980	881	38	
507980	881	11	Check
507981	882	4	
507982	883	3	
507983	884	5	
507984	885	3	
507984	885	Insufficient sample	Check

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29067

Gerald Bidwell
Minqold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 14 19 83

Work Order # : 991703
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202185	116-A	5	
202186	117-A	3	
202187	118-A	10	
202188	119-A	31	
202189	122-A	4	
202190	123-A	6	
202191	125-A	5	
202192	136-A	5	
202193	137-A	2	
202194	148-A	10	
202194	148-A	7	Check
202195	149-A	7	
202196	151-A	4	
202197	155-A	9	
202198	156-A	2	
202199	157-A	9	
202200	162-A	7	
202201	163-A	3	
202202	164-A	<2	
202203	165-A	6	
202203	165-A	6	Check
202204	166-A	3	
202205	167-A	6	
202206	168-A	10	
202207	169-A	<2	
202208	170-A	<2	
202209	174-A	<2	
202210	180-A	<2	
202211	181-A	7	
202212	304-A	4	
202212	304-A	4	Check

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29068

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 14 19 89

Work Order # : 891708
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202213	305-A	2	
202214	306-A	5	
202215	330-A	2	
202216	343-A	4	
202217	360-A	4	
202218	361-A	8	
202219	364-A	122	
202219	364-A	105	Check
202220	366-A	4	
202221	367-A	4	
202221	367-A	5	Check
202222	370-A	3	
202223	371-A	6	
202224	372-A	<2	
202225	373-A	2	
202226	375-A	3	
202227	376-A	4	
202228	382-A	2	
202229	383-A	<2	
202230	384-A	8	
202230	384-A	2	Check
202231	386-A	6	
202232	387-A	2	
202233	396-A	5	
202234	397-A	11	
202235	398-A	24	
202236	399-A	6	
202237	407-A	8	
202238	408-A	8	
202239	415-A	6	
202239	415-A	4	Check

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29095

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891708
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202185	116-A	38
202186	117-A	46
202187	118-A	65
202188	119-A	33
202189	122-A	8
202190	123-A	17
202191	125-A	21
202192	136-A	20
202193	137-A	16
202194	148-A	25
202195	149-A	13
202196	151-A	25
202197	155-A	45
202198	156-A	29
202199	157-A	50
202200	162-A	16
202201	163-A	14
202202	164-A	31
202203	165-A	20
202204	166-A	14
202205	167-A	36
202206	168-A	110
202207	169-A	14
202208	170-A	17
202209	174-A	14
202210	180-A	12
202211	181-A	13
202212	304-A	20
202213	305-A	23
202214	306-A	13
202215	330-A	21

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29096

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891708
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202216	343-A	17
202217	360-A	14
202218	361-A	32
202219	364-A	48
202220	366-A	31
202221	367-A	48
202222	370-A	16
202223	371-A	38
202224	372-A	26
202225	373-A	14
202226	375-A	14
202227	376-A	15
202228	382-A	17
202229	383-A	11
202230	384-A	22
202231	386-A	80
202232	387-A	19
202233	396-A	18
202234	397-A	19
202235	398-A	73
202236	399-A	15
202237	407-A	22
202238	408-A	30
202239	415-A	13

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29069

Gerald Bidvell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 14 19 89

Work Order # : 891709
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202240	550	11	
202241	578	13	
202242	579	10	
202243	580	8	
202244	581	4	
202245	582	9	
202246	583	8	
202247	584	4	
202248	585	7	
202249	586	5	
202249	586	6	Check
202250	587	7	
202251	588	2	
202252	589	6	
202253	590	4	
202254	591	5	
202255	592	9	
202256	593	12	
202257	594	5	
202258	595	3	
202258	595	5	Check
202259	596	8	
202260	597	6	
202261	598	5	
202262	599	3	
202263	600	4	
202264	601	4	
202265	602	5	
202266	603	9	
202267	604	7	
202267	604	7	Check

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29070

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 14 19 89

Work Order # : 891709
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202268	605	5	
202269	606	9	
202270	607	20	
202271	608	8	
202272	609	5	
202273	610	7	
202274	611	5	
202275	612	4	
202276	613	7	
202276	613	3	Check
202277	614	7	
202278	615	10	
202279	616	14	
202280	617	6	
202281	618	6	
202282	619	6	
202283	620	7	
202284	621	5	
202285	622	9	
202285	622	10	Check
202286	623	6	
202287	624	5	
202288	625	8	
202289	626	6	
202289	626	9	Check

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29097

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891709
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202240	550	30
202241	578	42
202242	579	35
202243	580	59
202244	581	14
202245	582	19
202246	583	14
202247	584	16
202248	585	22
202249	586	13
202250	587	92
202251	588	110
202252	589	190
202253	590	14
202254	591	24
202255	592	28
202256	593	17
202257	594	32
202258	595	26
202259	596	140
202260	597	55
202261	598	34
202262	599	32
202263	600	14
202264	601	25
202265	602	34
202266	603	24
202267	604	32
202268	605	41
202269	606	19
202270	607	25

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29098

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891709
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202271	608	33
202272	609	18
202273	610	33
202274	611	14
202275	612	21
202276	613	16
202277	614	16
202278	615	90
202279	616	24
202280	617	41
202281	618	20
202282	619	88
202283	620	18
202284	621	19
202285	622	30
202286	623	26
202287	624	23
202288	625	16
202289	626	22

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29071

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 15 19 92

Work Order # : 891710
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202290	627	3	
202291	628	15	
202292	629	<2	
202293	630	<2	
202294	631	<2	
202295	632	<2	
202296	633	<2	
202297	634	<2	
202298	635	<2	
202299	636	<2	
202299	636	<2	Check
202300	637	4	
202301	638	8	
202302	639	<2	
202303	640	5	
202304	641	5	
202305	642	7	
202306	643	6	
202307	644	9	
202308	645	11	
202308	545	4	Check
202309	646	8	
202310	647	7	
202311	648	6	
202312	649	3	
202313	650	3	
202314	651	11	
202315	652	7	
202316	653	9	
202317	654	<2	
202317	654	<2	Check

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29072

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5S4

Date: September 15 19 89

Work Order # : 891710
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202318	655	<2	
202319	656	<2	
202320	657	2	
202321	658	2	
202322	659	<2	
202323	660	8	
202324	661	<2	
202325	662	<2	
202326	663	<2	
202326	663	<2	Check
202327	664	7	
202328	665	8	
202329	666	7	
202330	667	4	
202331	668	5	
202332	669	2	
202333	670	14	
202334	671	4	
202335	672	5	
202335	672	15	Check
202336	673	7	
202337	674	7	
202338	675	<2	
202339	676	<2	
202339	676	<2	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 13 19 89

Work Order # : 891710
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202290	627	25
202291	628	160
202292	629	18
202293	630	13
202294	631	18
202295	632	16
202296	633	12
202297	634	12
202298	635	24
202299	636	13
202300	637	10
202301	638	24
202302	639	16
202303	640	12
202304	641	34
202305	642	28
202306	643	11
202307	644	9
202308	645	15
202309	646	25
202310	647	22
202311	648	17
202312	649	12
202313	650	16
202314	651	22
202315	652	13
202316	653	32
202317	654	23
202318	655	14
202319	656	69
202320	657	20

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29100

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 391710
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202321	658	16
202322	659	18
202323	660	12
202324	661	12
202325	662	12
202326	663	20
202327	664	17
202328	665	10
202329	666	13
202330	667	19
202331	668	16
202332	669	Result to be forwarded
202333	670	12
202334	671	30
202335	672	19
202336	673	30
202337	674	55
202338	675	18
202339	676	9

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29073 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 15 19 89

Work Order # : 891711
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202340	677	6	
202341	678	5	
202342	679	7	
202343	680	5	
202344	681	7	
202345	682	8	
202346	683	9	
202347	684	5	
202348	685	5	
202349	686	4	
202349	686	6	Check
202350	687	3	
202351	688	5	
202352	689	3	
202353	690	3	
202354	691	4	
202355	692	3	
202356	693	7	
202357	694	2	
202358	695	4	
202358	695	2	Check
202359	696	53	
202360	697	21	
202361	698	5	
202362	699	6	
202363	700	15	
202364	701	7	
202365	702	8	
202366	703	5	
202367	704	6	
202367	704	7	Check

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29074

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 15 19 89

Work Order # : 891711
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202368	705	2	
202369	706	4	
202370	707	5	
202371	708	3	
202372	709	3	
202373	710	6	
202374	712	4	
202375	713	18	
202376	729	3	
202376	729	2	Check
202377	730	9	
202378	731	3	
202379	732	7	
202380	733	3	
202381	734	2	
202382	735	4	
202383	736	2	
202384	737	3	
202385	738	4	
202385	738	4	Check
202386	739	2	
202387	740	7	
202388	741	3	
202389	742	3	
202389	742	3	Check

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29109

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891711
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202340	677	20
202341	678	31
202342	679	27
202343	680	22
202344	681	18
202345	682	120
202346	683	120
202347	684	25
202348	685	22
202349	686	26
202350	687	33
202351	688	40
202352	689	38
202353	690	40
202354	691	22
202355	692	20
202356	693	31
202357	694	16
202358	695	22
202359	696	34
202360	697	34
202361	698	68
202362	699	43
202363	700	21
202364	701	30
202365	702	30
202366	703	30
202367	704	73
202368	705	22
202369	706	42
202370	707	20

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29110

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891711
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202371	708	18
202372	709	22
202373	710	24
202374	712	25
202375	713	110
202376	729	20
202377	730	16
202378	731	20
202379	732	18
202380	733	35
202381	734	30
202382	735	42
202383	736	22
202384	737	18
202385	738	25
202386	739	18
202387	740	58
202388	741	24
202389	742	35

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29075 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 15 19 89

Work Order # : 891712
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202390	743	4	
202391	744	3	
202392	745	7	
202393	746	4	
202394	747	15	
202395	748	4	
202396	749	2	
202397	750	2	
202398	751	6	
202399	752	9	
202399	752	6	Check
202400	753	3	
202401	754	3	
202402	755	6	
202403	756	4	
202404	757	4	
202405	758	5	
202406	759	5	
202407	760	11	
202408	761	3	
202408	761	4	Check
202409	762	2	
202410	763	<2	
202411	764	2	
202412	765	4	
202413	766	3	
202414	767	2	
202415	768	3	
202416	769	8	
202417	770	2	
202417	770	Insufficient sample	Check

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29076

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 15 19 89

Work Order # : 891712
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
202418	771	4	
202419	772	6	
202420	773	3	
202421	774	7	
202422	775	3	
202423	776	30	
202424	777	12	
202425	778	5	
202426	779	3	
202426	779	4	Check
202427	780	10	
202428	781	5	
202429	782	4	
202430	783	3	
202431	784	8	
202432	785	3	
202433	786	3	
202434	787	16	
202435	788	4	
202435	788	2	Check
202436	789	4	
202437	790	3	
202438	791	5	
202439	792	3	
202440	793	3	
202441	794	2	
202442	795	7	
202443	796	<2	
202444	797	6	
202444	797	5	Check
202445	798	4	

(3)

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29111

Gerald Bidwell
Mingold Resources Inc.
335 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891712
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202390	743	28
202391	744	52
202392	745	34
202393	746	48
202394	747	52
202395	748	47
202396	749	26
202397	750	23
202398	751	110
202399	752	52
202400	753	48
202401	754	19
202402	755	68
202403	756	56
202404	757	70
202405	758	30
202406	759	61
202407	760	37
202408	761	34
202409	762	37
202410	763	27
202411	764	26
202412	765	36
202413	766	20
202414	767	34
202415	768	16
202416	769	23
202417	770	30
202418	771	13
202419	772	35
202420	773	22

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29112

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 18 19 89

Work Order # : 891712
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
202421	774	120
202422	775	39
202423	776	52
202424	777	33
202425	778	42
202426	779	31
202427	780	28
202428	781	70
202429	782	24
202430	783	19
202431	784	18
202432	785	20
202433	786	26
202434	787	30
202435	788	25
202436	789	66
202437	790	36
202438	791	29
202439	792	19
202440	793	30
202441	794	14
202442	795	34
202443	796	26
202444	797	34
202445	798	24
202446	799	34

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29166

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 22 19 89

Work Order # : T890362
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508260	936	4	
508261	937	4	
508262	938	3	
508263	939	3	
508264	940	3	
508265	941	5	
508266	942	3	
508267	943	2	
508268	944	4	
508269	945	3	
508269	945	7	Check
508270	946	4	
508271	947	3	
508272	948	16	
508273	949	5	
508274	950	4	
508275	951	3	
508276	952	2	
508277	953	5	
508278	954	4	
508278	954	3	Check
508279	955	6	
508280	956	<2	
508281	957	2	
508282	958	<2	
508283	959	<2	
508284	960	<2	
508285	961	3	
508286	962	2	
508287	963	2	
508287	963	2	Check

(4)

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29167

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 22 19 89

Work Order # : T890362
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508288	964	3	
508289	965	2	
508290	966	3	
508291	967	4	
508292	968	5	
508293	969	5	
508294	970	4	
508295	971	3	
508296	972	6	
508296	972	6	Check
508297	973	3	
508298	974	4	
508299	975	7	
508300	976	3	
508301	977	4	
508302	978	5	
508303	979	9	
508304	980	7	
508305	981	7	
508305	981	Insufficient sample	Check
508306	982	5	
508307	983	5	
508308	984	6	
508309	985	4	
508309	985	5	Check

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29206

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 27 19 89

Work Order # : T890362
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508260	936	40
508261	937	29
508262	938	21
508263	939	25
508264	940	24
508265	941	24
508266	942	21
508267	943	13
508268	944	29
508269	945	19
508270	946	18
508271	947	20
508272	948	66
508273	949	43
508274	950	36
508275	951	22
508276	952	14
508277	953	32
508278	954	18
508279	955	25
508280	956	14
508281	957	10
508282	958	14
508283	959	18
508284	960	16
508285	961	34
508286	962	18
508287	963	12
508288	964	28
508289	965	17
508290	966	22

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29207

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 27 19 89

Work Order # : TS90362
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508291	967	54
508292	968	54
508293	969	23
508294	970	14
508295	971	18
508296	972	21
508297	973	28
508298	974	24
508299	975	19
508300	976	13
508301	977	21
508302	978	25
508303	979	22
508304	980	40
508305	981	55
508306	982	21
508307	983	16
508308	984	28
508309	985	16

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29168

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 22 19 89

Work Order # : T890372
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508444	986	5	
508445	987	4	
508446	988	3	
508447	989	2	
508448	990	5	
508449	991	4	
508450	992	2	
508451	993	3	
508452	994	<2	
508453	995	4	
508453	995	3	Check
508454	996	4	
508455	997	5	
508456	998	5	
508457	999	2	
508458	1000	2	
508459	1001	5	
508460	1002	5	
508461	1003	2	
508462	1004	5	
508462	1004	<2	Check
508463	1005	3	
508464	1006	2	
508465	1007	<2	
508466	1008	2	
508467	1009	2	
508468	1010	<2	
508469	1011	<2	
508470	1012	<2	
508471	1013	<2	
508471	1013	2	Check

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29169

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 12 19 89

Work Order # : T890372
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508472	1014	2	
508473	1015	6	
508474	1016	7	
508475	1017	4	
508476	1018	10	
508477	1019	5	
508478	1020	4	
508479	1021	7	
508480	1022	3	
508480	1022	2	Check
508481	1023	13	
508482	1024	5	
508483	1025	12	
508484	1026	6	
508485	1027	4	
508486	1028	7	
508487	1029	7	
508488	1030	16	
508489	1031	5	
508489	1031	6	Check
508490	1032	24	
508491	1033	18	
508492	1034	8	
508493	1035	6	
508493	1035	9	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 29 19 89

Work Order # : T890372
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508444	986	42
508445	987	33
508446	988	77
508447	989	31
508448	990	36
508449	991	160
508450	992	24
508451	993	26
508452	994	17
508453	995	76
508454	996	22
508455	997	100
508456	998	35
508457	999	26
508458	1000	15
508459	1001	58
508460	1002	44
508461	1003	20
508462	1004	17
508463	1005	23
508464	1006	33
508465	1007	24
508466	1008	62
508467	1009	18
508468	1010	34
508469	1011	9
508470	1012	12
508471	1013	10
508472	1014	33
508473	1015	32
508474	1016	17

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29242

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 29 19 89

Work Order # : T890372
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508475	1017	36
508476	1018	26
508477	1019	15
508478	1020	32
508479	1021	16
508480	1022	58
508481	1023	36
508482	1024	50
508483	1025	29
508484	1026	30
508485	1027	36
508486	1028	37
508487	1029	36
508488	1030	83
508489	1031	160
508490	1032	120
508491	1033	100
508492	1034	56
508493	1035	63

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29220

Gerald Bidwell
Mingold Resources Inc.
936 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 27 19 89

Work Order # : 3890379
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508578	1036	3	
508579	1037	5	
508580	1038	6	
508581	1039	3	
508582	1040	4	
508583	1041	3	
508584	1042	5	
508585	1043	3	
508586	1044	2	
508587	1045	4	
508587	1045	5	Check
508588	1046	3	
508589	1047	3	
508590	1048	3	
508591	1049	4	
508592	1050	3	
508593	1051	4	
508594	1052	4	
508595	1053	9	
508595	1054	12	
508596	1054	7	Check
508597	1055	4	
508598	1056	7	
508599	1057	4	
508600	1058	5	
508601	1059	5	
508602	1060	6	
508603	1061	28	
508604	1062	4	
508605	1063	9	
508605	1063	4	Check

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29221

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 27 19 89

Work Order # : T890379
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508606	1064	4	
508607	1065	4	
508608	1066	4	
508609	1067	4	
508610	1068	4	
508611	1069	2	
508612	1070	2	
508613	1071	4	
508614	1072	3	
508614	1072	3	Check
508615	1073	11	
508616	1074	4	
508617	1075	11	
508618	1076	2	
508619	1077	5	
508620	1078	5	
508621	1079	3	
508622	1080	17	
508623	1081	18	
508623	1081	6	Check
508624	1082	6	
508625	1083	5	
508626	1084	5	
508627	1085	4	
508627	1085	4	Check

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29243

Gerald Bidwell
Mingold Resources Inc.
805 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 22 19 89

Work Order # : T890379
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508578	1036	22
508579	1037	74
508580	1038	71
508581	1039	79
508582	1040	51
508583	1041	52
508584	1042	40
508585	1043	31
508586	1044	19
508587	1045	54
508588	1046	44
508589	1047	34
508590	1048	18
508591	1049	53
508592	1050	32
508593	1051	41
508594	1052	26
508595	1053	62
508596	1054	66
508597	1055	69
508598	1056	53
508599	1057	50
508600	1058	22
508601	1059	16
508602	1060	17
508603	1061	60
508604	1062	14
508605	1063	85
508606	1064	62
508607	1065	60
508608	1066	46

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29244

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 13 19 89

Work Order # : T8903?9
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508609	1067	55
508610	1068	55
508611	1069	16
508612	1070	19
508613	1071	29
508614	1072	16
508615	1073	55
508616	1074	35
508617	1075	40
508618	1076	36
508619	1077	71
508620	1078	48
508621	1079	30
508622	1080	54
508623	1081	65
508624	1082	75
508625	1083	48
508626	1084	69
508627	1085	46

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29214

Gerald Bidwell
Minqold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 27 19 89

Work Order # : T890385
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508714	1086	11	
508715	1087	4	
508716	1088	5	
508717	1089	7	
508718	1090	4	
508719	1091	5	
508720	1092	6	
508721	1093	13	
508722	1094	3	
508723	1095	20	
508723	1095	4	Check
508724	1096	5	
508725	1097	4	
508726	1098	5	
508727	1099	4	
508728	1100	4	
508729	1101	3	
508730	1102	3	
508731	1103	6	
508732	1104	3	
508732	1104	5	Check
508733	1105	8	
508734	1106	4	
508735	1107	19	
508736	1108	7	
508737	1109	5	
508738	1110	9	
508739	1111	6	
508740	1112	5	
508741	1113	3	
508741	1113	4	Check

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29215

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 27 19 89

Work Order # : T890335
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508742	1114	4	
508743	1115	6	
508744	1116	4	
508745	1117	6	
508746	1118	6	
508747	1119	2	
508748	1120	5	
508749	1121	3	
508750	1122	5	
508750	1122	4	Check
508751	1123	6	
508752	1124	4	
508753	1125	5	
508754	1126	5	
508755	1127	4	
508756	1128	4	
508757	1129	3	
508758	1130	6	
508759	1131	2	
508759	1131	3	Check
508760	1132	4	
508761	1133	2	
508762	1134	4	
508763	1135	2	
508763	1135	3	Check

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29239

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 29 19 90

Work Order # : T8903[illegible]
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508714	1086	38
508715	1087	36
508716	1088	47
508717	1089	79
508718	1090	25
508719	1091	23
508720	1092	53
508721	1093	31
508722	1094	14
508723	1095	23
508724	1096	32
508725	1097	26
508726	1098	18
508727	1099	15
508728	1100	16
508729	1101	20
508730	1102	26
508731	1103	87
508732	1104	29
508733	1105	44
508734	1106	35
508735	1107	16
508736	1108	15
508737	1109	10
508738	1110	41
508739	1111	37
508740	1112	34
508741	1113	12
508742	1114	82
508743	1115	41
508744	1116	20

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29240

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: September 29 19 89

Work Order # : T890385
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508745	1117	36
508746	1118	42
508747	1119	19
508748	1120	19
508749	1121	32
508750	1122	20
508751	1123	24
508752	1124	36
508753	1125	14
508754	1126	16
508755	1127	42
508756	1128	14
508757	1129	19
508758	1130	23
508759	1131	20
508760	1132	40
508761	1133	23
508762	1134	26
508763	1135	15

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29165

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
THUNDER BAY, ON
P7B 5Z4

Date: September 22 19 89

Work Order: 891710
Project:

Assay Results are as follows:

SAMPLE NUMBER		Original Copper ppm	Copper ppm
Accurassay	Customer		
202332	669	Result to follow	32

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29251

Gerald Bidwell
Mingold Resources Inc.
938 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 2 19 89

Work Order # : T8900386
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508764	1136	6	
508765	1137	3	
508766	1138	4	
508767	1139	5	
508768	1140	4	
508769	1141	4	
508770	1142	6	
508771	1143	4	
508772	1144	7	
508773	1145	3	
508773	1145	5	Check
508774	1146	5	
508775	1147	5	
508776	1148	4	
508777	1149	3	
508778	1150	7	
508779	1151	4	
508780	1152	7	
508781	1153	9	
508782	1154	5	
508782	1154	Insufficient sample	Check
508783	1155	6	
508784	1156	6	
508785	1157	10	
508786	1158	8	
508787	1159	6	
508788	1160	6	
508789	1161	8	
508790	1162	4	
508791	1163	15	
508791	1163	3	Check

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29252

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 2 19 89

Work Order # : T8[illegible]
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508792	1164	7	
508793	1165	3	
508794	1166	2	
508795	1167	2	
508796	1168	4	
508797	1169	3	
508798	1170	3	
508799	1171	4	
508800	1172	7	
508800	1172	3	Check
508801	1173	3	
508802	1174	3	
508803	1175	4	
508804	1176	3	
508805	1177	3	
508806	1178	2	
508807	1179	2	
508808	1180	2	
508809	1181	16	
508809	1181	5	Check
508810	1182	2	
508811	1183	<2	
508812	1184	<2	
508813	1185	2	
508813	1185	<2	Check

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29253

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 3 19 88

Work Order # : T89C386
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508764	1136	28
508765	1137	26
508766	1138	24
508767	1139	22
508768	1140	12
508769	1141	36
508770	1142	21
508771	1143	12
508772	1144	18
508773	1145	16
508774	1146	17
508775	1147	20
508776	1148	21
508777	1149	25
508778	1150	20
508779	1151	20
508780	1152	23
508781	1153	15
508782	1154	45
508783	1155	30
508784	1156	22
508785	1157	12
508786	1158	33
508787	1159	33
508788	1160	24
508789	1161	18
508790	1162	21
508791	1163	10
508792	1164	23
508793	1165	30
508794	1166	21

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29254

Gerald Bidwell
Mingold Resources Inc.
938 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 3 19 90

Work Order # : 2990136
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508795	1167	13
508796	1168	49
508797	1169	23
508798	1170	14
508799	1171	20
508800	1172	12
508801	1173	8
508802	1174	18
508803	1175	43
508804	1176	21
508805	1177	17
508806	1178	18
508807	1179	16
508808	1180	11
508809	1181	16
508810	1182	16
508811	1183	11
508812	1184	18
508813	1185	14

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29249

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 2 19 89

Work Order # : T890392
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508876	1186	4	
508877	1187	10	
508878	1188	4	
508879	1189	3	
508880	1190	3	
508881	1191	5	
508882	1192	7	
508883	1193	8	
508884	1194	4	
508885	1195	6	
508885	1195	16	Check
508886	1196	3	
508887	1197	10	
508888	1198	4	
508889	1199	5	
508890	1200	4	
508891	1201	3	
508892	1202	8	
508893	1203	4	
508894	1204	553	
508894	1204	308	Check
508895	1205	5	
508896	1206	3	
508897	1207	3	
508898	1208	4	
508899	1209	3	
508900	1210	5	
508901	1211	10	
508902	1212	3	
508903	1213	4	
508903	1213	11	Check

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29250

Gerald Bidwell
Mingold Resources Inc.
[illegible] Cobalt Cres.
Thunder Bay, Ontario
P[illegible] 5Z4

Date: October 2 19 [illegible]

Work Order # : T980392
Project :

SAMPLE NUMBERS		Gold	
Accurassay	Customer	ppb	
508904	1214	5	
508905	1215	3	
508906	1216	5	
508907	1217	5	
508908	1218	6	
508909	1219	3	
508910	1220	3	
508911	1221	8	
508912	1222	4	
508912	1222	3	Check
508913	1223	6	
508914	1224	53	
508915	1225	3	
508916	1226	9	
508917	1227	11	
508918	1228	3	
508919	1229	6	
508920	1230	4	
508921	1231	3	
508921	1231	2	Check
508922	1232	4	
508923	1233	11	
508924	1234	4	
508925	1235	7	
508925	1235	Insufficient sample	Check

(5)

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29291

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 5 19 93

Work Order # : T890393
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508876	1186	20
508877	1187	18
508878	1188	17
508879	1189	16
508880	1190	21
508881	1191	20
508882	1192	16
508883	1193	20
508884	1194	17
508885	1195	16
508886	1196	18
508887	1197	30
508888	1198	41
508889	1199	15
508890	1200	20
508891	1201	35
508892	1202	53
508893	1203	16
508894	1204	16
508895	1205	19
508896	1206	14
508897	1207	17
508898	1208	15
508899	1209	45
508900	1210	14
508901	1211	14
508902	1212	16
508903	1213	60
508904	1214	62
508905	1215	30
508906	1216	44

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29292

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T890393
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508907	1217	52
508908	1218	33
508909	1219	13
508910	1220	13
508911	1221	42
508912	1222	37
508913	1223	64
508914	1224	41
508915	1225	25
508916	1226	16
508917	1227	8
508918	1228	16
508919	1229	72
508920	1230	64
508921	1231	26
508922	1232	27
508923	1233	40
508924	1234	20
508925	1235	39

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29255

Gerald Ridwell
Minqold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 3 19 89

Work Order # : T890394
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
508928	1236	5	
508929	1237	3	
508930	1238	13	
508931	1239	3	
508932	1240	11	
508933	1241	4	
508934	1242	6	
508935	1243	34	
508936	1244	10	
508937	1245	6	
508937	1245	7	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 5 19 88

Work Order # : T890394
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
508928	1236	56
508929	1237	31
508930	1238	28
508931	1239	52
508932	1240	110
508933	1241	38
508934	1242	33
508935	1243	21
508936	1244	22
508937	1245	200

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 3 19 89

Work Order # : T890393
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509006	1246	3	
509007	1247	6	
509008	1248	6	
509009	1249	10	
509010	1250	4	
509011	1251	3	
509012	1252	2	
509013	1253	3	
509014	1254	2	
509015	1255	3	
509015	1255	9	Check
509016	1256	8	
509017	1257	5	
509018	1258	5	
509019	1259	4	
509020	1260	3	
509021	1261	5	
509022	1262	6	
509023	1263	3	
509024	1264	4	
509024	1264	2	Check
509025	1265	2	
509026	1266	3	
509027	1267	2	
509028	1268	2	
509029	1269	4	
509030	1270	6	
509031	1271	5	
509032	1272	5	
509033	1273	4	
509033	1273	7	Check

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29257

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 3 19 89

Work Order # : T890398
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509034	1274	7	
509035	1275	3	
509036	1276	45	
509037	1277	4	
509038	1278	3	
509039	1279	4	
509040	1280	4	
509041	1281	4	
509042	1282	5	
509042	1282	6	Check
509043	1283	3	
509044	1284	3	
509045	1285	63	
509046	1286	6	
509047	1287	4	
509048	1288	3	
509049	1289	2	
509050	1290	3	
509051	1291	8	
509051	1291	2	Check
509052	1292	40	
509053	1293	5	
509054	1294	2	
509055	1295	2	
509056	1296	5	
509057	1297	4	
509058	1298	3	
509059	1299	20	
509060	1300	4	
509060	1300	4	Check
509061	1301	2	

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29258

Gerald Bidwell
Mingold Resources Inc.
835 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 3 19 89

Work Order # : T830398
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
309062	1302	2	
309063	1303	3	
309064	1304	2	
309065	1305	3	
309065	1305	Insufficient sample	Check

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29293

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T890398
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509006	1246	77
509007	1247	65
509008	1248	92
509009	1249	620
509010	1250	90
509011	1251	27
509012	1252	86
509013	1253	34
509014	1254	16
509015	1255	130
509016	1256	100
509017	1257	82
509018	1258	27
509019	1259	86
509020	1260	100
509021	1261	82
509022	1262	25
509023	1263	82
509024	1264	34
509025	1265	49
509026	1266	39
509027	1267	43
509028	1268	40
509029	1269	20
509030	1270	18
509031	1271	14
509032	1272	85
509033	1273	53
509034	1274	94
509035	1275	26
509036	1276	51

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T990398
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509037	1277	37
509038	1278	25
509039	1279	170
509040	1280	16
509041	1281	22
509042	1282	48
509043	1283	64
509044	1284	18
509045	1285	22
509046	1286	13
509047	1287	11
509048	1288	12
509049	1289	18
509050	1290	41
509051	1291	36
509052	1292	110
509053	1293	52
509054	1294	40
509055	1295	19
509056	1296	11
509057	1297	24
509058	1298	15
509059	1299	22
509060	1300	23
509061	1301	13
509062	1302	15
509063	1303	23
509064	1304	13
509065	1305	15

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President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

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29275

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T890399
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509066	1306	7	
509067	1307	4	
509068	1308	6	
509069	1309	4	
509070	1310	3	
509071	1311	5	
509072	1312	4	
509073	1313	11	
509074	1314	7	
509075	1315	6	
509075	1315	6	Check
509076	1316	7	
509077	1317	14	
509078	1318	10	
509079	1319	11	
509080	1320	3	
509081	1321	3	
509082	1322	5	
509083	1323	8	
509084	1324	5	
509084	1324	6	Check
509085	1325	3	
509086	1326	4	
509087	1327	3	
509088	1328	5	
509089	1329	3	
509090	1330	8	
509091	1331	7	
509092	1332	4	
509093	1333	3	
509093	1333	4	Check

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29276

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T9[illegible]
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509094	1334	4	
509095	1335	3	
509096	1336	4	
509097	1337	4	
509098	1338	7	
509099	1339	5	
509100	1340	4	
509101	1341	6	
509102	1342	4	
509102	1342	3	Check
509103	1343	4	
509104	1344	4	
509105	1345	4	
509106	1346	4	
509107	1347	6	
509108	1348	10	
509109	1349	5	
509110	1350	3	
509111	1351	5	
509111	1351	3	Check
509112	1352	7	
509113	1353	7	
509114	1354	4	
509115	1355	7	
509116	1356	31	
509117	1357	9	
509118	1358	4	
509119	1359	9	
509120	1360	3	
509120	1360	3	Check
509121	1361	4	

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29277

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T890399
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509122	1362	3	
509123	1363	3	
509124	1364	3	
509125	1365	4	
509125	1365	6	Check

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29324

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 12 19 89

Work Order # : T890399
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509066	1306	18
509067	1307	9
509068	1308	23
509069	1309	22
509070	1310	12
509071	1311	15
509072	1312	14
509073	1313	14
509074	1314	32
509075	1315	38
509076	1316	89
509077	1317	24
509078	1318	48
509079	1319	110
509080	1320	20
509081	1321	18
509082	1322	200
509083	1323	18
509084	1324	57
509085	1325	44
509086	1326	46
509087	1327	16
509088	1328	130
509089	1329	19
509090	1330	17
509091	1331	29
509092	1332	14
509093	1333	89
509094	1334	60
509095	1335	58
509096	1336	36

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 12 19 89

Work Order # : T930399
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
309097	1337	19
309098	1338	50
309099	1339	45
309100	1340	37
309101	1341	35
309102	1342	35
309103	1343	40
309104	1344	22
309105	1345	21
309106	1346	25
309107	1347	11
309108	1348	16
309109	1349	59
309110	1350	21
309111	1351	53
309112	1352	93
309113	1353	28
309114	1354	15
309115	1355	84
309116	1356	25
309117	1357	33
309118	1358	64
309119	1359	18
309120	1360	33
309121	1361	44
309122	1362	12
309123	1363	34
309124	1364	44
309125	1365	39

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29280

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T890403
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509171	1366	3	
509172	1367	2	
509173	1368	3	
509174	1369	2	
509175	1370	4	
509176	1371	5	
509177	1372	9	
509178	1373	3	
509179	1374	4	
509180	1375	7	
509180	1375	Insufficient sample	Check
509181	1376	3	
509182	1377	4	
509183	1378	4	
509184	1379	3	
509185	1380	5	
509186	1381	3	
509187	1382	3	
509188	1383	9	
509189	1384	2	
509189	1384	3	Check
509190	1385	3	
509191	1386	7	
509192	1387	3	
509193	1388	11	
509194	1389	3	
509195	1390	4	
509196	1391	2	
509197	1392	5	
509198	1393	3	
509198	1393	4	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T890403
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509199	1394	4	
509200	1395	5	
509201	1396	10	
509202	1397	3	
509203	1398	4	
509204	1399	4	
509205	1400	7	
509206	1401	6	
509207	1402	12	
509207	1402	Insufficient sample	Check
509208	1403	8	
509209	1404	6	
509210	1405	11	
509211	1406	3	
509212	1407	7	
509213	1408	6	
509214	1409	3	
509215	1410	4	
509216	1411	2	
509216	1411	Insufficient sample	Check
509217	1412	5	
509218	1413	4	
509219	1414	3	
509220	1415	3	
509221	1416	5	
509222	1417	3	
509223	1418	8	
509224	1419	3	
509225	1420	2	
509225	1420	3	Check
509226	1421	3	

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 6 19 89

Work Order # : T890403
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509227	1422	3	
509228	1423	5	
509229	1424	3	
509230	1425	9	
509230	1425	12	Check

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Gerald Bidwell
Mingold Resources Inc.
335 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890403
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509171	1366	36
509172	1367	37
509173	1368	40
509174	1369	35
509175	1370	31
509176	1371	40
509177	1372	31
509178	1373	19
509179	1374	33
509180	1375	44
509181	1376	26
509182	1377	21
509183	1378	16
509184	1379	33
509185	1380	16
509186	1381	36
509187	1382	74
509188	1383	67
509189	1384	12
509190	1385	40
509191	1386	38
509192	1387	40
509193	1388	16
509194	1389	18
509195	1390	73
509196	1391	39
509197	1392	310
509198	1393	40
509199	1394	14
509200	1395	110
509201	1396	150

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29334

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890403
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509202	1397	12
509203	1398	22
509204	1399	21
509205	1400	41
509206	1401	67
509207	1402	200
509208	1403	49
509209	1404	28
509210	1405	39
509211	1406	9
509212	1407	9
509213	1408	21
509214	1409	32
509215	1410	56
509216	1411	46
509217	1412	87
509218	1413	36
509219	1414	34
509220	1415	25
509221	1416	12
509222	1417	14
509223	1418	36
509224	1419	26
509225	1420	30
509226	1421	15
509227	1422	64
509228	1423	100
509229	1424	27
509230	1425	290

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29300

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 20 19 89

Work Order # : T890404
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509231	1426	<2	
509232	1427	<2	
509233	1428	<2	
509234	1429	<2	
509235	1430	3	
509236	1431	2	
509237	1432	4	
509238	1433	2	
509239	1434	3	
509240	1435	4	
509240	1435	<2	Check
509241	1436	2	
509242	1437	2	
509243	1438	6	
509244	1439	2	
509245	1440	7	
509246	1441	<2	
509247	1442	<2	
509248	1443	<2	
509249	1444	4	
509249	1444	2	Check
509250	1445	2	
509251	1446	14	
509252	1447	4	
509253	1448	4	
509254	1449	4	
509255	1450	<2	
509256	1451	4	
509257	1452	13	
509258	1453	<2	
509258	1453	7	Check

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29301

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 10 19 89

Work Order # : T890404
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509259	1454	3	
509260	1455	6	
509261	1456	8	
509262	1457	2	
509263	1458	2	
509264	1459	2	
509265	1460	3	
509266	1461	5	
509267	1462	<2	
509267	1462	<2	Check
509268	1463	2	
509269	1464	<2	
509270	1465	2	
509271	1466	2	
509272	1467	2	
509273	1468	2	
509274	1469	<2	
509275	1470	<2	
509276	1471	2	
509276	1471	3	Check
509277	1472	2	
509278	1473	5	
509279	1474	5	
509280	1475	2	
509281	1476	5	
509282	1477	2	
509283	1478	<2	
509284	1479	<2	
509285	1480	<2	
509285	1480	<2	Check
509286	1481	<2	

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29302

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z1

Date: October 10 19 89

Work Order # : T890404
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509287	1482	<2	
509288	1483	<2	
509289	1484	<2	
509290	1485	3	
509290	1485	3	Check

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29335

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890404
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509231	1426	47
509232	1427	26
509233	1428	30
509234	1429	22
509235	1430	8
509236	1431	16
509237	1432	24
509238	1433	16
509239	1434	14
509240	1435	21
509241	1436	37
509242	1437	21
509243	1438	17
509244	1439	31
509245	1440	14
509246	1441	10
509247	1442	32
509248	1443	17
509249	1444	18
509250	1445	22
509251	1446	14
509252	1447	20
509253	1448	12
509254	1449	22
509255	1450	14
509256	1451	240
509257	1452	330
509258	1453	25
509259	1454	68
509260	1455	17
509261	1456	670

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890404
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509262	1457	390
509263	1458	77
509264	1459	23
509265	1460	96
509266	1461	210
509267	1462	32
509268	1463	35
509269	1464	14
509270	1465	13
509271	1466	35
509272	1467	24
509273	1468	32
509274	1469	10
509275	1470	11
509276	1471	150
509277	1472	22
509278	1473	30
509279	1474	29
509280	1475	26
509281	1476	12
509282	1477	17
509283	1478	18
509284	1479	20
509285	1480	16
509286	1481	36
509287	1482	38
509288	1483	18
509289	1484	12
509290	1485	45

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890425
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509466	1486	4	
509467	1487	<2	
509468	1488	2	
509469	1489	4	
509470	1490	2	
509471	1491	4	
509472	1492	<2	
509473	1493	2	
509474	1494	<2	
509475	1495	<2	
509475	1495	<2	Check
509476	1496	6	
509477	1497	2	
509478	1498	3	
509479	1499	5	
509480	1500	3	
509481	1501	3	
509482	1502	<2	
509483	1503	3	
509484	1504	2	
509484	1504	2	Check
509485	1505	3	
509486	1506	4	
509487	1507	78	
509488	1508	5	
509489	1509	2	
509490	1510	4	
509491	1511	6	
509492	1512	4	
509493	1513	3	
509493	1513	4	Check

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29338

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T390425
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509494	1514	5	
509495	1515	3	
509496	1516	3	
509497	1517	4	
509498	1518	4	
509499	1519	6	
509500	1520	3	
509501	1521	6	
509502	1522	2	
509502	1522	<2	Check
509503	1523	6	
509504	1524	10	
509505	1525	2	
509506	1526	3	
509507	1527	7	
509508	1528	5	
509509	1529	7	
509510	1530	6	
509511	1531	4	
509511	1531	3	Check
509512	1532	4	
509513	1533	2	
509514	1534	2	
509515	1535	4	
509516	1536	2	
509517	1538	2	
509518	1539	<2	
509519	1540	3	
509520	1541	8	
509520	1541	17	Check
509521	1542	5	

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29339

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890425
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509522	1543	3	
509523	1544	4	
509524	1545	3	
509525	1546	3	
509525	1546	2	Check

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Gerald Bidwell
Mingold Resources Inc.
335 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : P999425
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509466	1486	23
509467	1487	8
509468	1488	23
509469	1489	21
509470	1490	15
509471	1491	26
509472	1492	20
509473	1493	19
509474	1494	28
509475	1495	20
509476	1496	30
509477	1497	9
509478	1498	40
509479	1499	22
509480	1500	12
509481	1501	14
509482	1502	12
509483	1503	16
509484	1504	36
509485	1505	7
509486	1506	25
509487	1507	34
509488	1508	50
509489	1509	12
509490	1510	54
509491	1511	14
509492	1512	40
509493	1513	42
509494	1514	32
509495	1515	25
509496	1516	11

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : T890425
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509497	1517	210
509498	1518	87
509499	1519	370
509500	1520	8
509501	1521	27
509502	1522	15
509503	1523	22
509504	1524	110
509505	1525	18
509506	1526	33
509507	1527	12
509508	1528	20
509509	1529	34
509510	1530	9
509511	1531	18
509512	1532	17
509513	1533	30
509514	1534	13
509515	1535	30
509516	1536	52
509517	1538	12
509518	1539	14
509519	1540	26
509520	1541	18
509521	1542	15
509522	1543	34
509523	1544	11
509524	1545	55
509525	1546	130

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890428
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509528	1547	4	
509529	1548	4	
509530	1549	8	
509531	1550	3	
509532	1551	6	
509533	1552	2	
509534	1553	5	
509535	1554	2	
509536	1555	10	
509537	1556	5	
509537	1556	5	Check
509538	1557	9	
509539	1558	6	
509540	1559	25	
509541	1560	4	
509542	1561	5	
509543	1562	3	
509544	1563	2	
509545	1564	5	
509546	1565	3	
509546	1565	4	Check
509547	1566	7	
509548	1567	5	
509549	1568	5	
509550	1569	4	
509551	1570	4	
509552	1571	5	
509553	1572	5	
509554	1573	5	
509555	1574	5	
509555	1574	4	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890428
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509556	1575	5	
509557	1576	3	
509558	1577	6	
509559	1578	5	
509560	1579	5	
509561	1580	17	
509562	1581	4	
509563	1582	2	
509564	1583	4	
509564	1583	4	Check
509565	1584	4	
509566	1585	5	
509567	1586	5	
509568	1587	3	
509569	1588	5	
509570	1589	4	
509571	1590	2	
509572	1591	3	
509573	1592	6	
509573	1592	4	Check
509574	1593	5	
509575	1594	4	
509576	1595	2	
509577	1596	<2	
509578	1597	<2	
509579	1598	5	
509580	1599	2	
509581	1600	3	
509582	1601	3	
509582	1601	3	Check
509583	1602	2	

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 13 19 89

Work Order # : T890428
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb
309584	1603	5
309585	1604	3
309586	1605	3
309587	1606	3
309587	1606	Insufficient sample Check

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29374

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: December 19 19 89

Work Order # : T990428
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
309528	1547	14
309529	1548	22
309530	1549	82
309531	1550	41
309532	1551	20
309533	1552	11
309534	1553	7
309535	1554	8
309536	1555	34
309537	1556	21
309538	1557	67
309539	1558	36
309540	1559	190
309541	1560	21
309542	1561	10
309543	1562	17
309544	1563	15
309545	1564	29
309546	1565	12
309547	1566	62
309548	1567	29
309549	1568	16
309550	1569	19
309551	1570	33
309552	1571	13
309553	1572	13
309554	1573	110
309555	1574	21
309556	1575	53
309557	1576	29
309558	1577	18

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29375 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 19 19 89

Work Order # : T890428
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509559	1578	36
509560	1579	60
509561	1580	27
509562	1581	35
509563	1582	13
509564	1583	18
509565	1584	11
509566	1585	240
509567	1586	11
509568	1587	12
509569	1588	24
509570	1589	43
509571	1590	58
509572	1591	12
509573	1592	20
509574	1593	230
509575	1594	28
509576	1595	51
509577	1596	12
509578	1597	44
509579	1598	75
509580	1599	10
509581	1600	55
509582	1601	38
509583	1602	11
509584	1603	14
509585	1604	10
509586	1605	8
509587	1606	10

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : T890429
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509588	1607	48	
509589	1608	6	
509590	1609	14	
509591	1610	3	
509592	1611	10	
509593	1612	2	
509594	1613	3	
509595	1614	3	
509596	1615	5	
509597	1616	6	
509597	1616	5	Check
509598	1617	5	
509599	1618	4	
509600	1619	5	
509601	1620	5	
509602	1621	3	
509603	1622	2	
509604	1623	2	
509605	1624	2	
509606	1625	4	
509606	1625	4	Check
509607	1626	3	
509608	1627	4	
509609	1628	10	
509610	1629	6	
509611	1630	3	
509612	1631	2	
509613	1632	4	
509614	1633	5	
509615	1634	3	
509615	1634	4	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : T890429
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509616	1635	35	
509617	1636	3	
509618	1637	5	
509619	1638	6	
509620	1639	13	
509621	1640	3	
509622	1641	4	
509623	1642	4	
509624	1643	3	
509624	1643	5	Check
509625	1644	2	
509626	1645	3	
509627	1646	3	
509628	1647	6	
509629	1648	6	
509630	1649	3	
509631	1650	4	
509632	1651	3	
509633	1652	5	
509633	1652	5	Check
509634	1653	3	
509635	1654	41	
509635	1655	3	
509637	1656	3	
509638	1657	9	
509639	1658	5	
509640	1659	3	
509641	1660	4	
509642	1661	4	
509642	1661	4	Check
509643	1662	9	

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29350

Gerald Bidwell
Mingold Resources Inc.
835 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : T890429
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
309644	1663	4	
309645	1664	4	
309646	1665	13	
309647	1666	3	
309647	1666	4	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 10 19 89

Work Order # : T890429
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509588	1607	16
509589	1608	16
509590	1609	15
509591	1610	15
509592	1611	14
509593	1612	12
509594	1613	28
509595	1614	36
509596	1615	25
509597	1616	13
509598	1617	14
509599	1618	17
509600	1619	26
509601	1620	16
509602	1621	16
509603	1622	20
509604	1623	12
509605	1624	20
509606	1625	13
509607	1626	13
509608	1627	29
509609	1628	9
509610	1629	28
509611	1630	22
509612	1631	31
509613	1632	31
509614	1633	12
509615	1634	11
509616	1635	30
509617	1636	21
509618	1637	25

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29377 Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 19 19 89

Work Order # : T890429
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509619	1638	16
509620	1639	56
509621	1640	14
509622	1641	15
509623	1642	38
509624	1643	12
509625	1644	8
509626	1645	10
509627	1646	23
509628	1647	41
509629	1648	57
509630	1649	36
509631	1650	12
509632	1651	17
509633	1652	22
509634	1653	24
509635	1654	18
509636	1655	14
509637	1656	18
509638	1657	39
509639	1658	41
509640	1659	25
509641	1660	19
509642	1661	27
509643	1662	110
509644	1663	25
509645	1664	39
509646	1665	19
509647	1666	17

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29351

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : T890431
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509648	1667	2	
509649	1668	6	
509650	1669	3	
509651	1670	8	
509652	1671	3	
509653	1672	6	
509654	1673	3	
509655	1674	7	
509656	1675	2	
509657	1676	4	
509657	1676	5	Check
509658	1677	3	
509659	1678	2	
509660	1679	3	
509661	1680	4	
509662	1681	6	
509663	1682	3	
509664	1683	6	
509665	1684	4	
509666	1685	6	
509666	1685	4	Check
509667	1686	4	
509668	1687	14	
509669	1688	3	
509670	1689	7	
509671	1690	5	
509672	1691	4	
509673	1692	76	
509674	1693	6	
509675	1694	4	
509575	1694	5	Check

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29352

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : T890431
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509676	1695	6	
509677	1696	6	
509678	1697	4	
509679	1698	5	
509680	1699	2	
509681	1700	4	
509682	1701	3	
509683	1702	2	
509684	1703	2	
509684	1703	3	Check
509685	1704	7	
509686	1705	3	
509687	1706	2	
509688	1707	12	
509689	1708	3	
509690	1709	4	
509691	1710	5	
509692	1711	4	
509693	1712	3	
509693	1712	4	Check
509694	1713	3	
509695	1714	5	
509696	1715	4	
509697	1716	4	
509698	1717	5	
509699	1718	3	
509700	1719	2	
509701	1720	3	
509702	1721	9	
509702	1721	3	Check
509703	1722	4	

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Gerald Bidwell
Minegold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 89

Work Order # : T890431
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
509704	1723	6	
509705	1724	5	
509706	1725	3	
509707	1726	4	
509707	1726	6	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 20 19 89

Work Order # : T890431
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509648	1667	11
509649	1668	11
509650	1669	36
509651	1670	26
509652	1671	21
509653	1672	26
509654	1673	27
509655	1674	25
509656	1675	8
509657	1676	41
509658	1677	35
509659	1678	34
509660	1679	25
509661	1680	30
509662	1681	16
509663	1682	15
509664	1683	110
509665	1684	38
509666	1685	58
509667	1686	7
509668	1687	17
509669	1688	9
509670	1689	19
509671	1690	16
509672	1691	13
509673	1692	60
509674	1693	44
509675	1694	37
509676	1695	26
509677	1696	24
509678	1697	16

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29389

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 20 19 89

Work Order # : T890431
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
509679	1698	28
509680	1699	13
509681	1700	30
509682	1701	14
509683	1702	16
509684	1703	17
509685	1704	14
509686	1705	18
509687	1706	10
509688	1707	14
509689	1708	16
509690	1709	21
509691	1710	11
509692	1711	30
509693	1712	20
509694	1713	18
509695	1714	28
509696	1715	17
509697	1716	10
509698	1717	7
509699	1718	20
509700	1719	18
509701	1720	18
509702	1721	9
509703	1722	10
509704	1723	20
509705	1724	20
509706	1725	10
509707	1726	23

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29395

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~October 29~~ 19 ~~89~~

Work Order # : TB90473
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
510180	1727	5	
510181	1728	6	
510182	1729	2	
510183	1730	3	
510184	1731	19	
510185	1732	12	
510186	1733	3	
510187	1734	3	
510188	1735	5	
510189	1736	4	
510189	1736	5	Check
510190	1737	5	
510191	1738	23	
510192	1739	5	
510193	1740	4	
510194	1741	5	
510195	1742	4	
510196	1743	33	
510197	1744	6	
510198	1745	5	
510198	1745	7	Check
510199	1746	3	
510200	1747	3	
510201	1748	6	
510202	1749	3	
510203	1750	61	
510204	1751	11	
510205	1752	3	
510206	1753	6	
510207	1754	3	
510207	1754	3	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario

P7B 5Z4

Date: October 23 19 89

Work Order # : TB90473
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
510208	1755	4	
510209	1756	5	
510210	1757	7	
510211	1758	6	
510212	1759	4	
510213	1760	13	
510214	1761	5	
510215	1762	5	
510216	1763	7	
510216	1763	7	Check
510217	1764	9	
510218	1765	10	
510219	1766	11	
510220	1767	13	
510221	1768	69	
510222	1769	5	
510223	1770	4	
510224	1771	4	
510225	1772	7	
510225	1772	7	Check
510226	1773	29	
510227	1774	4	
510228	1775	6	
510229	1776	19	
510230	1777	6	
510231	1778	3	
510232	1779	4	
510233	1780	5	
510234	1781	4	
510234	1781	4	Check
510235	1782	3	

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: ~~October 25~~ 19 ~~89~~

Work Order # : T890473
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
510236	1783	12	
510237	1784	3	
510238	1785	5	
510239	1786	10	
510239	1786	3	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 25 19 89

Work Order # : T890473
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
510180	1727	25
510181	1728	13
510182	1729	16
510183	1730	14
510184	1731	12
510185	1732	32
510186	1733	14
510187	1734	21
510188	1735	110
510189	1736	12
510190	1737	9
510191	1738	24
510192	1739	11
510193	1740	25
510194	1741	16
510195	1742	21
510196	1743	22
510197	1744	56
510198	1745	29
510199	1746	8
510200	1747	8
510201	1748	10
510202	1749	25
510203	1750	27
510204	1751	28
510205	1752	14
510206	1753	21
510207	1754	7
510208	1755	9
510209	1756	32
510210	1757	47

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31035

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 25 19 89

Work Order # : T890473
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
510211	1758	48
510212	1759	13
510213	1760	190
510214	1761	19
510215	1762	9
510216	1763	14
510217	1764	10
510218	1765	14
510219	1766	18
510220	1767	84
510221	1768	21
510222	1769	32
510223	1770	34
510224	1771	27
510225	1772	17
510226	1773	39
510227	1774	64
510228	1775	17
510229	1776	16
510230	1777	46
510231	1778	14
510232	1779	19
510233	1780	27
510234	1781	76
510235	1782	33
510236	1783	64
510237	1784	25
510238	1785	18
510239	1786	36

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 25 19 89

Work Order # : T890480
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
510284	1787	21	
510285	1788	3	
510286	1789	3	
510287	1790	10	
510288	1791	7	
510289	1792	14	
510290	1793	50	
510291	1794	6	
510292	1795	7	
510293	1796	3	
510293	1796	3	Check
510294	1797	29	
510295	1798	5	
510296	1799	5	
510297	1800	29	
510298	1801	5	
510299	1802	5	
510300	1803	6	
510301	1804	12	
510302	1805	9	
510302	1805	4	Check
510303	1806	48	
510304	1807	6	
510305	1808	3	
510306	1809	3	
510307	1810	13	
510308	1811	13	
510309	1812	9	
510310	1813	4	
510311	1814	2	
510311	1814	2	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 25 19 89

Work Order # : T890480
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
510312	1815	8	
510313	1816	3	
510314	1817	4	
510315	1818	20	
510316	1819	5	
510317	1820	6	
510318	1821	7	
510319	1822	10	
510320	1823	87	
510320	1823	7	Check
510321	1824	50	
510322	1825	4	
510323	1826	6	
510324	1827	3	
510325	1828	4	
510326	1829	7	
510327	1830	2	
510328	1831	4	
510329	1832	2	
510329	1832	3	Check
510330	1833	12	
510331	1834	4	
510332	1835	36	
510333	1836	4	
510334	1837	4	
510335	1838	4	
510336	1839	5	
510337	1840	6	
510338	1841	3	
510338	1841	3	Check
510339	1842	3	

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 25 19 89

Work Order # : 7890430
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
510340	1843	8	
510341	1844	75	
510342	1845	5	
510343	1846	4	
510343	1846	3	Check

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31088

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 3Z4

Date: November 1 19 83

Work Order # : T390480
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
510284	1787	100
510285	1788	12
510286	1789	36
510287	1790	34
510288	1791	14
510289	1792	38
510290	1793	22
510291	1794	25
510292	1795	44
510293	1796	21
510294	1797	26
510295	1798	39
510296	1799	13
510297	1800	52
510298	1801	34
510299	1802	23
510300	1803	22
510301	1804	15
510302	1805	29
510303	1806	36
510304	1807	22
510305	1808	25
510306	1809	21
510307	1810	20
510308	1811	12
510309	1812	17
510310	1813	11
510311	1814	9
510312	1815	19
510313	1816	17
510314	1817	68

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 1 19 [illegible]

Work Order # : T890480
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
510315	1818	47
510316	1819	32
510317	1820	14
510318	1821	37
510319	1822	45
510320	1823	40
510321	1824	53
510322	1825	15
510323	1826	27
510324	1827	10
510325	1828	11
510326	1829	10
510327	1830	7
510328	1831	14
510329	1832	64
510330	1833	17
510331	1834	45
510332	1835	200
510333	1836	10
510334	1837	15
510335	1838	31
510336	1839	31
510337	1840	110
510338	1841	11
510339	1842	12
510340	1843	11
510341	1844	130
510342	1845	23
510343	1846	10

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 22 19 82

Work Order # : 181408
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272141	1847	7	
272142	1848	13	
272143	1849	13	
272144	1850	6	
272145	1851	52	
272146	1852	2	
272147	1853	8	
272148	1854	2	
272149	1855	<2	
272150	1856	10	
272150	1856	24	Check
272151	1857	57	
272152	1858	<2	
272153	1859	<2	
272154	1860	58	
272155	1861	92	
272156	1862	9	
272157	1863	2	
272158	1864	10	
272159	1865	5	
272159	1865	8	Check
272160	1866	20	
272161	1867	12	
272162	1868	5	
272163	1869	11	
272164	1870	6	
272165	1871	62	
272166	1872	5	
272167	1873	15	
272168	1874	11	
272168	1874	7	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 27 19 89

Work Order # : 181403
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272169	1875	10	
272170	1876	9	
272171	1877	4	
272172	1878	6	
272173	1879	20	
272174	1880	3	
272175	1881	12	
272176	1882	9	
272177	1883	2	
272177	1883	2	Check
272178	1884	3	
272179	1885	5	
272180	1886	4	
272181	1887	5	
272182	1888	4	
272183	1889	2	
272184	1890	3	
272185	1891	2	
272186	1892	3	
272186	1892	3	Check
272187	1893	2	
272188	1894	2	
272189	1895	4	
272190	1896	3	
272191	1897	4	
272192	1898	6	
272193	1899	2	
272194	1900	9	
272195	1901	3	
272195	1901	4	Check
272196	1902	5	

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31054

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 07 19 89

Work Order # : 131408
Project :

SAMPLE NUMBERS		Gold	
Accurassay	Customer	ppb	
372196	1902	4	Check

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 27 19 89

Work Order # : 181408
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272141	1847	14
272142	1848	78
272143	1849	27
272144	1850	28
272145	1851	100
272146	1852	12
272147	1853	22
272148	1854	28
272149	1855	7
272150	1856	26
272151	1857	25
272152	1858	13
272153	1859	7
272154	1860	46
272155	1861	23
272156	1862	14
272157	1863	9
272158	1864	75
272159	1865	12
272160	1866	18
272161	1867	19
272162	1868	25
272163	1869	9
272164	1870	18
272165	1871	33
272166	1872	16
272167	1873	11
272168	1874	38
272169	1875	50
272170	1876	78
272171	1877	14

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Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 27 19 89

Work Order # : 101408
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272172	1878	12
272173	1879	27
272174	1880	24
272175	1881	28
272176	1882	28
272177	1883	13
272178	1884	20
272179	1885	28
272180	1886	14
272181	1887	18
272182	1888	90
272183	1889	20
272184	1890	10
272185	1891	35
272186	1892	19
272187	1893	14
272188	1894	14
272189	1895	14
272190	1896	9
272191	1897	30
272192	1898	20
272193	1899	36
272194	1900	19
272195	1901	14
272196	1902	19

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Gerald Bidwell
Mingold Resources Inc.
925 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 21 19 90

Work Order # : 131408A
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272197	1903	3	
272198	1904	2	
272199	1905	5	
272200	1906	3	
272201	1907	4	
272202	1908	5	
272203	1909	21	
272204	1910	6	
272205	1911	21	
272206	1912	6	
272206	1912	20	Check
272207	1913	31	
272208	1914	3	
272209	1915	5	
272210	1916	62	
272211	1917	24	
272212	1918	3	
272213	1919	6	
272214	1920	6	
272215	1921	5	
272215	1921	14	Check
272216	1922	3	
272217	1923	6	
272218	1924	4	
272219	1925	4	
272220	1926	4	
272221	1927	8	
272222	1928	21	
272223	1929	4	
272224	1930	5	
272224	1930	8	Check

LF-30

Per: _____

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ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

31058

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 27 19 --

Work Order # : 181403A
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272225	1931	8	
272226	1932	15	
272227	1933	4	
272228	1934	2	
272229	1935	10	
272230	1936	15	
272231	1937	5	
272232	1938	13	
272233	1939	2	
272233	1939	9	Check
272234	1940	4	
272235	1941	3	
272236	1942	2	
272237	1943	<2	
272238	1944	2	
272239	1945	5	
272240	1946	5	
272241	1947	3	
272242	1948	<2	
272242	1948	2	Check
272243	1949	3	
272244	1950	7	
272245	1951	8	
272246	1952	4	
272247	1953	5	
272248	1954	4	
272249	1955	22	
272250	1956	5	
272251	1957	18	
272251	1957	22	Check
272252	1958	20	

LF-30

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Certificate of Analysis

31059

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 17 19 ~~89~~

Work Order # : 181408A
Project :

SAMPLE NUMBERS		Gold	
Accurassay	Customer	ppb	
272252	1958	15	Check

Per: _____

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Certificate of Analysis

31060

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 27 19 81

Work Order # : 181408A
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272197	1903	36
272198	1904	6
272199	1905	12
272200	1906	15
272201	1907	10
272202	1908	13
272203	1909	17
272204	1910	34
272205	1911	37
272206	1912	8
272207	1913	38
272208	1914	30
272209	1915	11
272210	1916	11
272211	1917	19
272212	1918	14
272213	1919	48
272214	1920	16
272215	1921	28
272216	1922	8
272217	1923	43
272218	1924	13
272219	1925	16
272220	1926	11
272221	1927	64
272222	1928	69
272223	1929	20
272224	1930	16
272225	1931	170
272226	1932	10
272227	1933	67

(R)

LF-30

Per: _____

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ACCURASSAY LABORATORIES LTD.

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TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

31061

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: October 27 19 89

Work Order # : 181403A
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272228	1934	11
272229	1935	17
272230	1936	5
272231	1937	22
272232	1938	16
272233	1939	19
272234	1940	14
272235	1941	24
272236	1942	10
272237	1943	23
272238	1944	15
272239	1945	21
272240	1946	24
272241	1947	16
272242	1948	11
272243	1949	12
272244	1950	21
272245	1951	90
272246	1952	38
272247	1953	25
272248	1954	37
272249	1955	25
272250	1956	23
272251	1957	120
272252	1958	16

(8)

LF-30

Per: _____

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TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

31095

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 1 19 --

Work Order # : 1814038
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272253	1959	12	
272254	1960	5	
272255	1961	144	
272256	1962	7	
272257	1963	4	
272258	1964	17	
272259	1965	6	
272260	1966	4	
272261	1967	19	
272262	1968	17	
272262	1968	23	Check
272263	1969	68	
272264	1970	6	
272265	1971	3	
272266	1972	39	
272267	1973	14	
272268	1974	7	
272269	1975	7	
272270	1976	5	
272271	1977	3	
272271	1977	2	Check
272272	1978	3	
272273	1979	4	
272274	1980	5	
272275	1981	4	
272276	1982	6	
272277	1983	21	
272278	1984	15	
272279	1985	3	
272280	1986	2	
272280	1986	10	Check

LF-30

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Certificate of Analysis

31096

Gerald Bidwell
Mingold Resources Inc.
905 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 1 19 89

Work Order # : 131403B
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272281	1987	<2	
272282	1988	2	
272283	1989	2	
272284	1990	3	
272285	1991	5	
272286	1992	19	
272287	1993	3	
272288	1994	4	
272289	1995	7	
272289	1995	8	Check
272290	1996	4	
272291	1997	2	
272292	1998	<2	
272293	1999	3	
272294	2000	3	
272295	2001	2	
272296	2002	3	
272297	2003	3	
272298	2004	6	
272298	2004	4	Check
272299	2005	4	
272300	2006	5	
272301	2007	77	
272302	2008	8	
272303	2009	3	
272304	2010	6	
272305	2011	23	
272306	2012	4	
272307	2013	5	
272307	2013	3	Check
272308	2014	7	

LF-30

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Certificate of Analysis

31097

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 1 19 80

Work Order # : 1314088
Project :

SAMPLE NUMBERS		Gold	
Accurassay	Customer	ppb	
273308	2014	5	Check

(5)

Per: _____

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Certificate of Analysis

31103

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 1 19 89

Work Order # : 181408B
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272253	1959	24
272254	1960	15
272255	1961	32
272256	1962	43
272257	1963	29
272258	1964	26
272259	1965	24
272260	1966	48
272261	1967	12
272262	1968	35
272263	1969	53
272264	1970	14
272265	1971	32
272266	1972	130
272267	1973	34
272268	1974	160
272269	1975	19
272270	1976	60
272271	1977	6
272272	1978	8
272273	1979	17
272274	1980	23
272275	1981	34
272276	1982	20
272277	1983	14
272278	1984	11
272279	1985	10
272280	1986	17
272281	1987	13
272282	1988	11
272283	1989	9

LF-30

Per: _____

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Certificate of Analysis

31118

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 2 19 89

Work Order # : 181408D
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272458	2102	16
272459	2103	13
272460	2104	20
272461	2105	24
272462	2106	Sample Missing
272463	2107	99
272464	2108	22
272465	2109	28
272466	2110	24
272467	2111	16
272468	2112	38
272469	2113	26
272470	2114	11
272471	2115	12
272472	2116	24
272473	2117	28
272474	2118	28
272475	2118-A	13
272476	2119	250
272477	2120	96
272478	2121	45
272479	2122	43
272480	2123	12
272481	2124	31
272482	2125	9
272483	2126	12

(8)

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Certificate of Analysis

31115

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 2 19 90

Work Order # : 131408E
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272484	2127	113	
272485	2128	4	
272486	2129	5	
272487	2130	6	
272488	2131	7	
272489	2201	9	
272490	2202	17	
272491	2203	6	
272492	2204	6	
272493	2205	13	
272493	2205	8	Check
272494	2206	5	
272495	2207	12	
272496	2208	10	
272497	2209	23	
272498	2210	22	
272499	2211	69	
272500	2212	6	
272501	2213	4	
272502	2214	4	
272502	2214	7	Check
272503	2215	<2	
272504	2216	2	
272505	2217	13	
272506	2218	12	
272507	2219	4	
272508	2220	6	
272509	2221	6	
272510	2222	2	
272511	2223	2	
272511	2223	5	Check

Per: _____

LF-30

(8)

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Certificate of Analysis

31116

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 2 19 89

Work Order # : 181408E
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	
272512	2224	3	
272513	2225	4	
272514	2226	4	
272515	2227	5	
272516	2223	4	
272517	2229	5	
272518	2230	14	
272519	2231	5	
272519	2231	4	Check

Per: _____

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Certificate of Analysis

31119

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 3 19 89

Work Order # : 131409E
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272484	2127	16
272485	2128	15
272486	2129	22
272487	2130	30
272488	2131	54
272489	2201	8
272490	2202	12
272491	2203	15
272492	2204	12
272493	2205	22
272494	2206	13
272495	2207	19
272496	2208	27
272497	2209	33
272498	2210	92
272499	2211	180
272500	2212	10
272501	2213	8
272502	2214	12
272503	2215	13
272504	2216	18
272505	2217	29
272506	2218	14
272507	2219	26
272508	2220	24
272509	2221	7
272510	2222	34
272511	2223	14
272512	2224	15
272513	2225	16
272514	2226	12

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(8)

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Certificate of Analysis

31120

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Cres.
Thunder Bay, Ontario
P7B 5Z4

Date: November 2 19 89

Work Order # : 181402E
Project :

SAMPLE NUMBERS Accurassay	Customer	Copper ppm
272515	2227	23
272516	2228	20
272517	2229	20
272518	2230	15
272519	2231	13

Per: _____

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APPENDIX VI

ASSAY CHARGES

August - October, 1989

ACCURASSAY LABORATORIES LTD.

SUMMARY OF ASSAY CHARGES

Invoice No.	Amount	Mingold Cheque No.
790335	35.03 ✓	0960
790353	4,666.15 ✓	0980
790412 & 790419	4,839.55 ✓	0988
790443	2,290.00 ✓	1011
790461	1,946.50 ✓	1019
790479	2,061.00 ✓	1025
790492	2,748.00 ✓	1030
790536	5,003.65	paid by Toronto Office
	$23,589.88	

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0969

Sept. 12 1989

PAY ----------FOUR HUNDRED SIXTY-TWO----------47 $ 462.47

TO. ACCURASSAY LABORATORIES LTD.
Box 426, 3 Industrial Dr.,
KIRKLAND LAKE, Ont.
P2N 3J5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Aug. 11/89	Invoice # 790331 Assay Charges	187.73
Aug. 24/89	Invoice # 790307 "	99.55
Aug. 25/89	Invoice # 790335 "	175.19
	80054-202 $373.46	
	80054-255 42.30	
	80054-258 11.68	
	[redacted]	

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

TEL.: (705) 567-6343 - FAX: (705) 568-8368

INVOICE

790335

TO
Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE August 25, 1989
CUSTOMER ORDER N°
WORK ORDER N° 181329
DATE SUBMITTED

TERMS net 30 days, 2.0% per month on overdue accounts

			AMOUNT
15	Gold Assays W.O. #181329	7.50	112 50
15	Sample Prep. cert. # 28906	3.95	59 25
	Amount due by September 24, 1989		171 75
	After October 9, 1989 pay		175 19

11/15 80054 - 200
1/15 80054 - 258
[redacted] 80054 [redacted]

Thank You!

1

MINGOLD RESOURCES INC.
5 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0980

September 19 19 89

PAY ---------FORTY-SIX HUNDRED NINETY----------15 $ 4,690.15

TO ACCURASSAY LABORATORIES LTD.
Box 604, 3 Industrial Dr.,
KIRKLAND LAKE, Ont.
P2N 3J5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION			AMOUNT
ept. 6/89	Invoice # 790353	Assays	80054-258 $ 2.00	
			80054-202 $ 22.00	
			80054-257 $ 4,666.15	$4,690.15

(2)

SAY LABORATORIES LTD.
ASSAYERS, ASSAYERS, ANALYTICAL CONSULTANTS
...04, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

...: (705) 567-6343 - FAX: (705) 568-8368

INVOICE

790353

DATE: September 6, 1989
CUSTOMER ORDER N°:
WORK ORDER N°: Various
DATE SUBMITTED:

Jerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

TERMS: net 30 days, 2.0% per month on overdue accounts.

	DESCRIPTION	RATE	AMOUNT
15	Copper Analyses W.O.# 181329 cert.# 28927	2.00	30 00
50	Gold Assays W.O.# 181330A	7.50	375 00
50	Sample Prep. cert.# 28923-28	1.95	97 50
50	Copper Analyses cert.# 28923-28	2.00	100 00
50	Gold Assays W.O.# 181330B	7.50	375 00
50	Sample Prep. cert.# 28938-38	1.95	97 50
50	Copper Analyses cert.# 28938-38	2.00	100 00
50	Gold Assays W.O.# 891679	7.50	375 00
50	Sample Prep. cert.# 28953-88	1.95	97 50
50	Copper Analyses cert.# 28953-88	2.00	100 00
50	Gold Assays W.O.# 891680	7.50	375 00
50	Sample Prep. cert.# 28968-68	1.95	97 50
50	Copper Analyses cert.# 28968-28982	2.00	100 00
50	Gold Assays W.O.# 891681	7.50	375 00
50	Sample Prep. cert.# 28969-79	1.95	97 50
50	Copper Analyses cert.# 28969-79	2.00	100 00
50	Gold Assays W.O.# 891682	7.50	375 00
50	Sample Prep. cert.# 28973-77	1.95	97 50
50	Copper Analyses cert.# 28973-88	2.00	100 00
50	Gold Assays W.O.# 891683	7.50	375 00
50	Sample Prep. cert.# 28993-74	1.95	97 50
50	Copper Analyses cert.# 28993-97	2.00	100 00
57	Gold Assays W.O.# 891684	7.50	427 50

-1297

Thank You!

(2)

LABORATORIES LTD.
...TS, ASSAYERS, ANALYTICAL CONSULTANTS
...04, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5.

TEL.: (705) 567-6343 - FAX: (705) 568-8368

INVOICE

790353

TO
Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE	September 6, 1989
CUSTOMER ORDER N°	
WORK ORDER N°	Various
DATE SUBMITTED	

TERMS net 30 days, 2.0% per month on overdue accounts

QUANTITY	DESCRIPTION	PRICE	AMOUNT	
57	Sample Prep. cert # 28975-78	1.95	111	15
57	Copper Analyses cert # 28998-99	2.00	114	00
	Amount due before October 6, 1989		4690	15
	Please note: Accounts more than 45 days past due will lose any price discounts.			

$2.00
$22.00
$4666.15
80034-257

LF 97

Thank You!

(2)

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0988

Sept. 26 19 89

PAY ----------FORTY-EIGHT HUNDRED THIRTY-NINE----------55 $ 4,839.55

TO ACCURASSAY LABORATORIES LTD.
Box 604, 3 Industrial Dr.,
KIRKLAND LAKE, Ontario
P2N 3J5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Sept. 20/89	Invoice # 790412 & 790419 Assaying 80054-257	$4,839.55

(3)

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

TEL.: (705) 567-6343 - FAX: (705) 568-8368

790419

TO

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE September 21, 1989
CUSTOMER ORDER N°
WORK ORDER N° Various
DATE SUBMITTED

TERMS net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION		PRICE	AMOUNT
16	Gold Assays	W.O. #T890325	7.50	120 00
16	Sample Prep.	cert.# 29021 -	3.95	63 20
16	Copper Analyses	cert.# 29154 -	2.00	32 00
36	Gold Assays	W.O. #T890327	7.50	270 00
36	Sample Prep.	cert.# 29016-17 -	1.95	70 20
36	Copper Analyses	cert.# 29155-56 -	2.00	72 00
50	Gold Assays	W.O. #T890331	7.50	375 00
50	Sample Prep.	cert.# 29035-36 -	1.95	97 50
50	Copper Analyses	cert.# 29163-64 -	2.00	100 00
50	Gold Assays	W.O. #T890336	7.50	375 00
50	Sample Prep.	cert.# 29052-53 -	1.95	97 50
50	Copper Analyses	cert.# 29157-58 -	2.00	100 00
5	Gold Assays	W.O. #T890344	7.50	37 50
5	Sample Prep.	cert.# 29093 -	3.95	19 75
5	Copper Analyses	cert.# 29162 -	2.00	10 00
	Amount due before October 21, 1989.....			1839 65

Please note: Accounts more than 45 days past due
will lose any price discounts

8004-257

Thank You!

(3)

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

TEL.: (705) 567-6343 - FAX: (705) 568-8368

790412

TO

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE	September 20, 1989
CUSTOMER ORDER N°	
WORK ORDER N°	Various
DATE SUBMITTED	

TERMS

net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION		PRICE	AMOUNT	
55	Gold Assays	W.O. # 891708	7.50	412	50
55	Sample Prep.	cert.# 29067-68	1.95	107	25
55	Copper Analyses	cert.# 29095-96	2.00	110	00
50	Gold Assays	W.O. # 891709	7.50	375	00
50	Sample Prep.	cert.# 29069-70	1.95	97	50
50	Copper Analyses	cert.# 29097-98	2.00	100	00
50	Gold Assays	W.O. # 891710	7.50	375	00
50	Sample Prep.	cert.# 29071-72	1.95	97	50
50	Copper Analyses	cert.# 29099-100	2.00	100	00
50	Gold Assays	W.O. # 891711	7.50	375	00
50	Sample Prep.	cert.# 29073-74	1.95	97	50
50	Copper Analyses	cert.# 29109-10	2.00	100	00
57	Gold Assays	W.O. # 891712	7.50	427	50
57	Sample Prep.	cert.# 29075-77	1.95	111	15
57	Copper Analyses	cert.# 29111-12	2.00	114	00
	Amount due before October 20, 1989.....			2999	90

Please note: Accounts more than 45 days past due
will lose any price discounts

80854-257

1297

Thank You!

(3)

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1011

October 11 19 89

PAY ----------TWENTY-TWO HUNDRED NINETY----------xx$ 2,290.00

TO ACCURASSAY LABORATORIES LTD.
Box 604, 3 Industrial Dr.,
KIRKLAND LAKE, Ontario
P2N 3J5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION			AMOUNT
Oct. 11/89	Invoice # 790443	Assay charges	80054-257	$2,290.00

(A)

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

TEL.: (705) 567-6343 - FAX: (705) 568-8368

INVOICE

790443

TO
Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE September 29, 1989
CUSTOMER ORDER N°
WORK ORDER N° Various
DATE SUBMITTED

TERMS net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
50	Gold Assays W.O. #T890362	7.50	375.00
50	Sample Prep. cert.# 29166-67	1.95	97.50
50	Copper Analyses cert.# 29206-07	2.00	100.00
50	Gold Assays W.O. #T890372	7.50	375.00
50	Sample Prep. cert.# 29168-69	1.95	97.50
50	Copper Analyses cert.# 29241-42	2.00	100.00
50	Gold Assays W.O. #T890379	7.50	375.00
50	Sample Prep. cert.# 29220-21	1.95	97.50
50	Copper Analyses cert.# 29243-44	2.00	100.00
50	Gold Assays W.O. #T890385	7.50	375.00
50	Sample Prep. cert.# 29214-15	1.95	97.50
50	Copper Analyses cert.# 29239-40	2.00	100.00
	Amount due before October 29, 1989.....		2290.00
	Please note: Accounts more than 45 days past due will lose any price discounts.		

Thank You!

(4)

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1019

OCTOBER 17 19 89

PAY ----------NINETEEN HUNDRED FORTY-SIX----------50 $ 1,946.50

TO ACCURASSAY LABORATORIES LTD.
Box 604, 3 Industrial Dr.,
KIRKLAND LAKE, Ont.
P2N 3J5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER _____

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION			AMOUNT
Oct. 6/89	Invoice # 790461	Assay charges	80054-257	$1,946.50

(5)

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

TEL.: (705) 567-6343 - FAX: (705) 568-8368

INVOICE

790461

TO
Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE October 6, 1989
CUSTOMER ORDER N°
WORK ORDER N° Various
DATE SUBMITTED

TERMS net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION		PRICE	AMOUNT	
50	Gold Assays	W.O. #T890386	7.50	375	00
50	Sample Prep.	cert.# 29251-52	1.95	97	50
50	Copper Analyses	cert.# 29253	2.00	100	00
50	Gold Assays	W.O. #T890392	7.50	375	00
50	Sample Prep.	cert.# 29249-50	1.95	97	50
50	Copper Analyses	cert.# 29291-92	2.00	100	00
10	Gold Assays	W.O. #T890394	7.50	75	00
10	Sample Prep.	cert.# 29255	1.95	19	50
10	Copper Analyses	cert.# 29290	2.00	20	00
60	Gold Assays	W.O. #T890398	7.50	450	00
60	Sample Prep.	cert.# 29256-53	1.95	117	00
60	Copper Analyses	cert.# 292293-4	2.00	120	00
	Amount due before November 5, 1989.....			1946	50

Please note: Accounts more than 45 days past due will lose any price discounts

80054-257

Thank You!

5

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1025

October 23 19 89

PAY TWO THOUSAND SIXTY-ONE $ 2,061.00

TO ACCURASSAY LABORATORIES LTD.
Box 604, 3 Industiral Dr.,
KIRKLAND LAKE, Ontario
P2N 3J5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
ct. 23/89	Invoice # 790479	Assay charges 80054-257	$ 2,061.00

(6)

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

INVOICE

790479

TEL.: (705) 567-6343 · FAX: (705) 568-8306

TO Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE October 23, 1989
Customer Order No.
Work Order No. Various
Date Samples Rec'd

TERMS net 30 days, 2.0% per month on overdue accounts

60	Gold Assays	W.O. #790395	7.50	450	00
60	Sample Prep.	Cert. # 29215-77	1.95	117	00
60	Copper Analyses	Cert. # 29214-25	2.00	120	00
60	Gold Assays	W.O. #790403	7.50	450	00
60	Sample Prep.	Cert. # 29280-81	1.95	117	00
60	Copper Analyses	Cert. # 29233-34	2.00	120	00
60	Gold Assays	W.O. #790404	7.50	450	00
60	Sample Prep.	Cert. # 29100-02	1.95	117	00
60	Copper Analyses	Cert. # 29233-36	2.00	120	00
	Amount due before November 12, 1989			2061	00
	Please note: Accounts more than 45 days past due will lose any price discounts				

80054-257

LA-1287

Thank You!

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1030

November 1 19 89

PAY ----------TWENTY-SEVEN FORTY-EIGHT----------xx $ 2,748.00

TO ACCURASSAY LABORATORIES LTD.
Box 604, 3 Industrial Dr.,
KIRKLAND LAKE, Ont.
P2N 3J5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION			AMOUNT
Nov. 1/89	Invoice # 790492	Assay charges	80054-257	$2,748.00

(7)

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

790492

TO TEL.: (705) 567-5343 - FAX: (705) 568-8388
Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE October 18, 1989
CUSTOMER ORDER Nº
WORK ORDER Nº Various
DATE SUBMITTED

TERMS net 30 days, 2 0% per month on overdue accounts.

60	Gold Assays	P.O. #7890425	7.50	450	00
60	Sample Prep.	Cert. # 29337-39	1.95	117	00
60	Copper Analyses	Cert. # 29337-48	2.00	120	00
60	Gold Assays	P.O. #7890426	7.50	450	00
60	Sample Prep.	Cert. # 29340-47	1.95	117	00
60	Copper Analyses	Cert. # 29374-93	2.00	120	00
60	Gold Assays	P.O. #7890429	7.50	450	00
60	Sample Prep.	Cert. # 29348-50	1.95	117	00
60	Copper Analyses	Cert. # 29376-97	2.00	120	00
60	Gold Assays	P.O. #7890431	7.50	450	00
60	Sample Prep.	Cert. # 29351-53	1.95	117	00
60	Copper Analyses	Cert. # 29351-69	2.00	120	00
	Amount due before November 17, 1989.			2748	00
	Please note: Accounts note shen 45 days past due will lose any price discounts				

$0054-257

LP-1397

Thank You!

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

TEL.: (705) 567-6343 - FAX: (705) 568-8368

790536

DATE November 2, 1989

CUSTOMER ORDER N°

WORK ORDER N° Various

DATE SUBMITTED

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

TERMS net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION		PRICE	AMOUNT
1	Gold Assay	W.O. #T890451	7.50	7 50
1	Sample Prep.	cert.#31016	3.95	3 95
1	Copper Analysis	cert.#31024	2.00	2 00
60	Gold Assays	W.O. #T890473	7.50	450 00
60	Sample Prep.	cert.#29395-97 -	1.95	117 00
60	Copper Analyses	cert.#31034-35 -	2.00	120 00
60	Gold Assays	W.O. #T890480	7.50	450 00
60	Sample Prep.	cert.#31037-39 -	1.95	117 00
60	Copper Analyses	cert.#31088-89 -	2.00	120 00
56	Gold Assays	W.O. #181408	7.50	420 00
56	Sample Prep.	cert.#31052-54-	1.95	109 20
56	Copper Analyses	cert.#31055-56 -	2.00	112 00
56	Gold Assays	W.O. #181408A	7.50	420 00
56	Sample Prep.	cert.#31057-59 -	1.95	109 20
56	Copper Analyses	cert.#31060-61 -	2.00	112 00
56	Gold Assays	W.O. #181408B	7.50	420 00
56	Sample Prep.	cert.# 31095-97 -	1.95	109 20
56	Copper Analyses	cert.# 31103-04 -	2.00	112 00
56	Gold Assays	W.O. #181408C	7.50	420 00
56	Sample Prep.	cert.#31098-100 -	1.95	109 20
56	Copper Analyses	cert.# 31105-06 -	2.00	112 00
57	Gold Assays	W.O. #181408D	7.50	427 50
57	Sample Prep.	cert.# 31112-14 -	1.95	111 15

Thank You!

(5)

ACCURASSAY LABORATORIES LTD.
CHARTERED CHEMISTS, ASSAYERS, ANALYTICAL CONSULTANTS
Box 604, 3 Industrial Dr., Kirkland Lake
Ontario, Canada P2N 3J5

TEL.: (705) 567-6343 - FAX: (705) 568-8368

790536

Gerald Bidwell
Mingold Resources Inc.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B-5Z4

DATE: November 2, 1989
CUSTOMER ORDER N°:
WORK ORDER N°: Various
DATE SUBMITTED:

TERMS: net 30 days, 2.0% per month on overdue accounts.

QUANTITY	DESCRIPTION		PRICE	AMOUNT
57	Copper Analyses	cert.# 31117-18	2.00	114 00
36	Gold Assays	W.O. #181408E	7.50	270 00
36	Sample Prep.	cert.# 31115-16	1.95	70 20
36	Copper Analyses	cert.# 31119-20	2.00	72 00
	Amount due before December 2, 1989.....			5017 10

Please note: Accounts more than 45 days past due will lose any price discounts

297

Thank You!

(5)

APPENDIX VII

REPORTS OF WORK

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT No. W8904.416

Mining Act

Page 1 of 2

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): GEOPHYSICS - VLF ELECTROMAGNETIC SURVEY

Township or Area: POWELL LAKE (G-549)

Claim Holder(s): MINGOLD RESOURCES INC.

Prospector's Licence No.: T-4617

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

Survey Company: Terraphysics Ltd., Mingold Resources Inc.

Date of Survey (from & to): 16 Day | 12 Mo. | 88 Yr. | 23 Day | 09 Mo. | 89 Yr.

Total Miles of line Cut: 205 km

Name and Address of Author (of Geo-Technical report): G. Douglas, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	20
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geophysical	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geophysical	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	see accomanying list of claims	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
THUNDER BAY
MINING DIVISION
'89 SEP 29 PM 3 32

Total number of mining claims covered by this report of work: 110

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

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

Date: Sept. 28/89

Recorded Holder or Agent (Signature):

For Office Use Only

Total Days Cr. Recorded: 2,200

Date Recorded: Sept 29 1989

Mining Recorder:

Date Approved as Recorded:

Branch Director:

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: G. Bidwell, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Date Certified: Sept. 28/89

Certified by (Signature):

1362 (85/12)

VLF Survey

POWELL PROJECT - LIST OF CLAIMS

Sept. 1989

1000633	1020199
1000634	1020200
1000635	1020201
1005489	1021061
1010433	1021062
1010434	1021063
1010435	1021064
1010436	1021065
1010437	1021066
1010438	1021067
1010439	1021068
1010440	1021069
1012305	1021070
1012306	1021071
1012307	1021072
1012308	1021073
1012309	1021074
1012310	1021075
1012311	1021091
1012312	1021092
1012313	1021093
1012314	1021094
1012315	1021095
1012316	1021096
1012317	1021097
1012318	1021098
1012319	1021099
1012320	1021122
1012321	1021146
1012322	1021147
1012324	1021148
1012325	1021149
1019659	1021150
1019660	1021151
1019661	1021152
1019662	1021153
1020180	1021154
1020181	1021155
1020182	1021156
1020183	1021174
1020184	1021175
1020185	1021176
1020186	1021177
1020187	1021178
1020188	1021179
1020189	1021211
1020190	1021212
1020191	1021213
1020192	1021214
1020193	1021215
1020194	1021216
1020195	1045118
1020196	1045119
1020197	1045120
1020198	1045121

RECEIVED
THUNDER BAY
MINING DIVISION
'89 SEP 29 PM 3 37

Ministry of Northern Development and Mines
Ontario

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

DOCUMENT No. W8904-417

Mining Act

Instructions: – Please type or print.
– Number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): EXPENDITURES - SURFACE ROCK AND SOIL SAMPLE ASSAYING	Township or Area: POWELL LAKE (G-549)
Claim Holder(s): MINGOLD RESOURCES INC.	Prospector's Licence No.: T-4617
Address: Box 28, Toronto Dominion Centre, Toronto, Ontario M5K 1B8	
Survey Company: MINGOLD RESOURCES INC.	Date of Survey (from & to): 01 06 89 (Day Mo. Yr.) – 20 09 89 (Day Mo. Yr.)
Total Miles of line Cut:	
Name and Address of Author (of Geo-Technical report): G. BIDWELL, 935 Cobalt Crescnet, Thunder Bay, Ontario P7B 5Z4	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
TB	1019663	40			
	1019664	40			
	1019665	40			
	1019666	40			
	1019667	40			
	1019668	40			
	1019669	40			
	1019670	40			
	1019671	40			
	1019672	40			
	1019673	40			
	1019674	40			
	1019675	40			
	1019676	40			
	1019677	40			
	1019678	40			
	1019679	40			
	1019680	40			
	1019681	40			
	1019682	40			
	1019683	40			

RECEIVED
THUNDER BAY
MINING DIVISION
'89 SEP 29 PM 3 37

Expenditures (excludes power stripping)

Type of Work Performed: ASSAYING

Performed on Claim(s): TB 1000633-635, 1005489, 1010433-440, 1012305-325, 1019659-662, 1020180-201, 1021061-075, 1021091-099, 1021122, 1021146-156, 1021174-179, 1021211-16, 1045118-121, 1055104-107, 1079914-917.

$ 16,445.00 ÷ 15 = 1097 Days Credits

excess days credit (257) to be kept as a credit balance

Total number of mining claims covered by this report of work: 21

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

Date	Recorded Holder or Agent (Signature)
Sept. 22/89	[signature]

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1097	Sept 29 1989	[signature]
	Date Approved as Recorded	Branch Director

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: G. BIDWELL, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Date Certified	Certified by (Signature)
Sept. 22/89	[signature]

1362 (85/12)

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

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company TERRAPHYSICS, MINGOLD, DOUGLAS

Author of Report DOUGLAS et al

Address of Author 935 COBALT CRES., THUNDER BAY, ONT

Covering Dates of Survey APRIL/88 to SEPT/89
(linecutting to office)

Total Miles of Line Cut ≈ 210 km

SPECIAL PROVISIONS CREDITS REQUESTED 100 metre line spacing

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	20
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Nov 29, 1989 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

SEE ACCOMPANYING SHEET

TOTAL CLAIMS 110

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations ≈ 1600 Number of Readings ≈ 1600

Station interval 75 meters Line spacing 150 meters

Profile scale

Contour interval

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument GEONICS EM-16

Coil configuration

Coil separation

Accuracy

Method: ☑ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency SEATTLE, WASHINGTON (specify V.L.F. station)

Parameters measured IN-PHASE and QUADRATURE (out-of-phase)

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

Ministry of Northern Development and Mines

Ontario

Mining Act

Report of Work

(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Type of Survey(s)	Mining Division	Township or Area
GEOLOGICAL	THUNDER BAY	POWELL LAKE (G-549)

Recorded Holder(s)	Prospector's Licence No.
MINGOLD RESOURCES INC.	T-4617

Address	Telephone No.
Box 28 TORONTO DOMINION CENTRE TORONTO, ONTARIO M5K 1B8	(416) 362-2192

Survey Company: MINGOLD RESOURCES INC., E. MOSLEY, G. DOUGLAS

Name and Address of Author (of Geo-Technical Report): 935 COBALT CRES., THUNDER BAY, ONTARIO P7B 5Z4

Date of Survey (from & to): Day 08 Mo. 08 Yr. 89 — Day 11 Mo. 89 Yr.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Other	
	Geological	8.7
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Other	

Total miles flown over claim(s).

Date	Recorded Holder or Agent (Signature)
Nov 24/89	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
	SEE ACCOMPANYING SHEETS				

Total number of mining claims covered by this report of work: 109

Certification Verifying Report of Work

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

Name and Address of Person Certifying: GERALD BIDWELL 935 COBALT CRES. THUNDER BAY, ONT. P7B 5Z4

Telephone No.	Date	Certified By (Signature)
(807) 623-8060	Nov 24/89	

Received Stamp

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Provincial Manager, Mining Lands

2 (89/06)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey: GEOLOGICAL MAPPING

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
	X	7	=	957	+	0	=	957	÷	109	=	8.7

Type of Survey

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
	X	7	=		+		=		÷		=	

POWELL PROJECT - GEOLOGICAL MAPPING COVERAGE

TB 1000633
1000634
1000635
1005489
1010433
1010434
1010435
1010436
1010437
1010438
1010439
1010440
1012305
1012306
1012307
1012308
1012309
1012310
1012311
1012312
1012313
1012314
1012315
1012316
1012317
1012318
1012319
1012320
1012321
1012322

TB 1019659
1019660
1020182
1020183
1020184
1020185
1020186
1020187
1020188
1020189
1020190
1020193
1020194
1020195
1020196
1020197
1020198
1020199
1020200
1021061
1021062
1021063
1021064
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1021068
1021069
1021070
1021071

TB 1021072
1021073
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1021122
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1021174
1021175
1021176
1021177
1021178

TB 1021179
1021211
1021212
1021213
1021214
1021215
1021216
1045118
1045119
1045120
1045121
1055104
1055105
1055106
1055107
1079914
1079915
1079916
1079917

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109 CLAIMS

Ontario

Ministry of Northern Development and Mines

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) GEOLOGICAL

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company DOUGLAS, MOSLEY, MINGOLD RES. INC.

Author of Report DOUGLAS et al

Address of Author 935 COBALT CRES. THUNDER BAY, ONT.

Covering Dates of Survey AUG/88 to NOV/89
(linecutting to office)

Total Miles of Line Cut ≈ 210 km

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

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

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

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

DATE: Nov 24/89 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

SEE ACCOMPANYING SHEET

If space insufficient, attach list

TOTAL CLAIMS 109

OFFICE USE ONLY

837 (85/12)

Powell Project

Geological Mapping - Man Days

Mapping (10 hour days)

B. Nelson	July 14/89	1
G. Bidwell	June 2, Oct 18-20/89	4
G. Douglas	Aug 15-18, 22-27, 29, 30, Sept 3-9/89	19
E. Mosley	Aug to Oct/88 (39 days)	39
S. Paul	Oct 9-12/88	4
R. Kadolph	Sept 13-16, 19-23, 26-28, Oct 4-7/88	16
		83

83 × 1.25 × 7 = 726 man days

Report Writing (8 hour days)

G. Bidwell	Aug 1, 2, Oct 26, 30, 31/89	5
G. Douglas	Oct 10-19/89	10
E. Mosley	June/88 (3½ days)	3½
		18½

18.5 × 1 × 7 = 129 man days

Drafting

S. Beauchamp	April 3, 4, 6, 7, 10/89	15.5 hours
J. McAllister	Sept/89	24 hours
	Nov/89	28.5 hours
E. Mosley	Dec/88 (3 days)	24 hours
		92 hours

92/8 × 7 = 80 man days

Typing

P. Bidwell	July 25, 27/89	5 hours
	Aug 2, 4, 14, 16/89	10 hours
	Sept 2/89	10 hours
		25 hours

25/8 × 7 = 22 man days

Ministry of
Northern Development
and Mines
Ontario

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch

Report of Work
Mining Act
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s)	Mining Division	Township or Area
GEOCHEMICAL	THUNDER BAY	POWELL LAKE (G-549)

Recorded Holder(s)	Prospector's Licence No.
MINGOLD RESOURCES INC.	T-4617

Address	Telephone No.
BOX 28 TORONTO DOMINION CENTRE, TORONTO, ONTARIO M5K1B8	(416) 362-2192

Survey Company
MINGOLD RESOURCES INC. G. DOUGLAS

Name and Address of Author (of Geo-Technical Report)
935 COBALT CRES. THUNDER BAY, ONTARIO P7B5Z4

Date of Survey (from & to)

	Day	Mo.	Yr.	Day	Mo.	Yr.
	08	89		09	89	

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	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	7.1
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Other	

Total miles flown over claim(s).

Date	Recorded Holder or Agent (Signature)
Nov 24/89	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
	SEE ACCOMPANYING SHEET				

Total number of mining claims covered by this report of work: 89

Certification Verifying Report of Work

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

Name and Address of Person Certifying
GERALD BIDWELL 935 COBALT CRES, THUNDER BAY, ONTARIO P7B5Z4

Telephone No.	Date	Certified By (Signature)
(807) 623-8060	Nov 24/89	

Received Stamp

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Provincial Manager, Mining Lands

1362 (89/06)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey GEOCHEMICAL

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7	634	+	0	=	634	÷	89	=	7.1

Type of Survey

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		÷		=	

Type of Survey

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		÷		=	

Type of Survey

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		÷		=	

Powell Project - Soil Geochemistry Coverage

TB 1000633
1000634
1000635
1010433
1010434
1010435
1010436
1010437
1010438
1010439
1010440
1012305
1012306
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1012320
1012321
1020180
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TB 1020190
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1020200
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TB 1021099
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1021212
1021213
1021215
1021216
1045118
1045119
1045120
1045121
1055104
1055105
1055106
1055107
1079914
1079915
1079916
1079917

89 claims

Ontario

Ministry of Northern Development and Mines

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) SOIL GEOCHEMISTRY

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company MINGOLD RES. INC., DOUGLAS

Author of Report DOUGLAS et al

Address of Author 935 COBALT CRES., THUNDER BAY, ONT

Covering Dates of Survey AUG/89 to NOV/89
(linecutting to office)

Total Miles of Line Cut ≈ 210 km

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

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

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

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

DATE: NOV 29/89 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

SEE ACCOMPANYING SHEET

TOTAL CLAIMS 89

If space insufficient, attach list

837 (85/12)

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample Soil ("B" Horizon)
(Nature of Material)

Average Sample Weight 200 gm

Method of Collection Auger or shovel

Soil Horizon Sampled "B"

Horizon Development _____

Sample Depth 20 cm - 70 cm

Terrain Typical shield

Drainage Development Poor

Estimated Range of Overburden Thickness
0 - 20 metres

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis
See report

General _____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

ppm
(Cu,) Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others Au ppb

Field Analysis (See report tests)
Extraction Method _____
Analytical Method _____
Reagents Used _____

Field Laboratory Analysis
No. (_____ tests)
Extraction Method _____
Analytical Method _____
Reagents Used _____

Commercial Laboratory (_____ tests)
Name of Laboratory _____
Extraction Method _____
Analytical Method _____
Reagents Used _____

General _____

Powell Project

Soil Geochemistry - Man Days

Sampling (10 hour days)

S. Koza	Aug 12-18 '89	7
P. Langes	Aug 12-18, 21, 22, 24-27, 29, 30, Sept. 3-9, 22-24 '89	25
R. Baxter	Aug 21, 22, 24-27, 29, 30, Sept 7, 14, 17, 22-25, Oct 4 '89	19
G. Douglas	Aug 12-14, Sept 14, 17, 22-25 '89	10
		61

61 × 1.25 × 7 = 533 man days

Report Writing (8 hour days)

G. Douglas	Oct 20-24 '89	5

5 × 1 × 7 = 35 man days

Drafting

J. McAllister	July '89	25 hours
	Sept '89	31 hours
	Nov '89	20 hours
		76 hours

76/8 × 7 = 66 man days

Ministry of Northern Development Mines
Ontario

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Mining Act — Report of Work
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s): INDUCED POLARIZATION	Mining Division: THUNDER BAY	Township or Area: POWELL LAKE (G-549)
Recorded Holder(s): MINGOLD RESOURCES INC.		Prospector's Licence No.: T-4617
Address: Box 28 TORONTO DOMINION CENTRE, TORONTO, ONTARIO M5K1B8		Telephone No.: (416) 362-2192
Survey Company: JVX LIMITED UNIT #22 60 WEST WILMOT ST., RICHMOND HILL ONTARIO L4B1M6		
Name and Address of Author (of Geo-Technical Report): BLAINE WEBSTER		Date of Survey (from & to): 4 10 89 (Day Mo. Yr.) — 7 10 89 (Day Mo. Yr.)

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	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Other	21.8
	Geological	
	Geochemical	
Airborne Credits **Note:** Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Other	

Total miles flown over claim(s).

Date: Nov 24/89 — Recorded Holder or Agent (Signature): [signature]

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
TB	1021063				
	1021091				
	1021093				
	1021094				
	1021095				
	1021097				
	1021098				
	1021099				

Total number of mining claims covered by this report of work: 8

Certification Verifying Report of Work

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

Name and Address of Person Certifying: GERALD BIDWELL 935 COBALT CRES. THUNDER BAY, ONTARIO P7B5Z4

Telephone No.	Date	Certified By (Signature)
(807) 623-8060	Nov 24/89	[signature]

For Office Use Only

Received Stamp

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Provincial Manager, Mining Lands

1362 (89/06)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey	Technical Days		Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
INDUCED POLARIZATION	25	X 7 =	175	+ 0 =	175	÷ 8 =	21.8
		X 7 =		+ =		÷ =	
		X 7 =		+ =		÷ =	
		X 7 =		+ =		÷ =	

5 men x 4 days x 1.25 (10 hr days) = 25

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) INDUCED POLARIZATION

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company JVX LIMITED

Author of Report BLAINE WEBSTER

Address of Author #22 - 60 WEST WILMOT ST., RICHMOND HILL ONT. L4B1M6

Covering Dates of Survey Sept 4-7, 1989 (linecutting to office)

Total Miles of Line Cut _____

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

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

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

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

DATE: Nov 24, 1989 SIGNATURE: _____ Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
TB	1021063
	1021091
	1021093
	1021094
	1021095
	1021097
	1021098
	1021099

If space insufficient, attach list

TOTAL CLAIMS 8

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 120 Number of Readings 120

Station interval 25 metres Line spacing 100 metres

Profile scale

Contour interval various – see pseudosection

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency (specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument SCINTREX IPR-11 BROADBAND TIME DOMAIN

Method ☑ Time Domain ☐ Frequency Domain

Parameters – On time 2.0 sec. Frequency

– Off time 2.0 sec. Range

– Delay time

– Integration time

Power see report

Electrode array

Electrode spacing

Type of electrode

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0796

April 14 19 89

PAY ----------SEVEN HUNDRED FIFTY-NINE----------xx $ 759.00

TO Sandra Beauchamp

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈ 010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
Apr. 14/89	Drafting Services April 3/89 - April 14/89		
	80013-252	$269.50	
	80013-253	77.00	
	80013-254	181.50	
	80013-257	170.50	
	80013-251	60.50	$759.00

INVOICE

BEAUCHAMP, Sandra
490 River Street
Thunder Bay, Ontario

TO: MINGOLD RESOURCES INC.
935 COBALT CRESCENT
THUNDER BAY, ONTARIO
P7B 5Z4

RE: INVOICE - DRAFTING SERVICES FROM APRIL 1ST - APRIL 14, 1989

69.0 hours @ $11.00 per hour = $759.00

APPROVED: DATE: April 14/89

MINGOLD RESOURCES INC.

NAME SANDRA BEAUCHAMP MONTH OF APRIL 1989

PROJECT

DATE	ADMIN	PROPTY EVAL	RECONN	POWELL LAKE	SLAUGHWATER	PAINT LAKE	ABERNETHY	UNDERHILL	DAY OFF
S 1									X
S 2									X
6 M (3)			3.5	2.5					
7 T (4)			1.5	5.5					
7 W (5)				6	1				
7 T (6)			2	4	1				
7 F (7)			6			1			
S 8									X
S 9									X
7 M (10)			.5	2		2.5			
7 T (11)				4.5	1	1.5			
7 W (12)					6.5	0.5			
7 T (13)					3.5		3.5		
7 F (14)					3.5		3.5		
S 15									
S 16									
M 17									
T 18									
W 19									
T 20									
F 21									
S 22									
S 23									
M 24									
T 25									
W 26									
T 27									
F 28									
S 29									
S 30									
31									
TOTAL			13.5	24.5	16.5	3.5	7		

WORK PERFORMED

DRAFTING

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0918

August 11 1989

PAY ----------ONE HUNDRED SIXTY----------xx $ 160.00

TO MR. SHAWN KOZA

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈009151⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Aug. 11/89	2 days casual employment @ $80.00 per day	
	92007-201	$160.00

INVOICE

KOZA, Shawn
c/o Lakehead University Residence
Thunder Bay, Ontario
P7B 5E1

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - CASUAL EMPLOYMENT DURING AUGUST 1989

Two (2) days August 10th and 11th casual employment

@ $80.00 per day = $160.00.

Shawn Koza

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0933

August 21 19 89

PAY ----------SIX HUNDRED FORTY----------xx $ 640.00

TO SHAWN KOZA

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Aug. 21/89	Eight days employment @ $80.00 per day (Powell)	
	92007-201	$640.00

INVOICE

KOZA, Shawn
c/o Lakehead University Residence
Thunder Bay, Ontario
P7B 5E1

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - CASUAL EMPLOYMENT DURING AUGUST 1989

Eight (8) days August 12th to August 19th casual employment

@ $80.00 per day = $640.00.

Shawn Koza

Original to: M. Grimes, Toronto (for Personnel file); cc: P.M. Page, Accounts

DISTRIBUTION OF TIME

NAME SHAWN KOZA

MONTH AUGUST 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
NINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	POWELL	80011	257	10		
		80011				
WESTGOLD						
	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		10		

Signed: SHAWN KOZA

Dated: August 31 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

NGOLD RESOURCES INC.

NAME _____ MONTH OF _____

DATE	ADMIN	PROPTY EVAL	RECONN	PROJECT	DAY OFF	WORK PERFORMED
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
TOTAL						

1 days camp preparation
2 days travelling
7 days sampling
10

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

·0957

September 1 19 89

PAY ----------SEVENTEEN HUNDRED SIXTY----------xx $ 1,760.00

TO PETER LANGES
1717 Donald St. East
Thunder Bay, Ont.
P7E 5W6

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈ ⑆010⑆ 62⑈009145⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Sept. 1/89	Twenty-two (22) days worked @ $80.00 per day On Powell Project 22 x $80.00 = $1,760.00 92007-201	$1,760.00

INVOICE

LANGES, Peter
1717 Donald St. East
Thunder Bay, Ont. P7E 5W6

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - CASUAL EMPLOYMENT DURING AUGUST 1989

Twenty-two (22) days casual employment August 10 - 31st

@ $80.00 per day = $1,760.00.

Peter Langes
Peter Langes

APPROVED

Aug 31/89
DATE

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0963

September 11, 19 89

PAY ----------EIGHT HUNDRED----------xx$ 800.00

TO
PETER LANGES
1717 Donald St. E.
THUNDER BAY, Ontario
P7E 5W6

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

MINGOLD RESOURCES INC.

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Sept. 11/89	TEN DAYS EMPLOYMENT Sept. 1 - 10/89 @ $80.00 per day 92007-201 On Powell Project	$800.00

INVOICE

LANGES, Peter
1717 Donald St. E.
Thunder Bay, Ontario P7E 5W6

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - TEMPORARY EMPLOYMENT DURING SEPT. 1989

Ten days employment Sept. 1 - 10th inclusive @ $80.00 per day = $ 800.00.

Peter Langes
Peter Langes

APPROVED

Sept 11/89
DATE

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1004

October 3 19 89

PAY ----------TWO HUNDRED EIGHTY----------xx $ 280.00

TO PETER LANGES
1717 Donald St., E
THUNDER BAY, Ontario
P7E 5W6

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Oct. 3/89	Three and one half (3½) days employment @$80.00 per day - Sept. 21 - 24th/89 on Powell Property 92007-201	$280.00

INVOICE

LANGES, Peter
1717 Donald St. E.
Thunder Bay, Ontario P7E 5W6

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - TEMPORARY EMPLOYMENT DURING SEPT. 1989

Three and one half (3 1/2) days employment @80.00 per day = $ 280.00 Sept. 21, - 24/89.

Peter Langes
Peter Langes

APPROVED

DATE

Original to: M. Grieve, Toronto (for Personnel file); cc: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME PETER LANGES MONTH AUGUST 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
RINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	POWELL	80011	257	22	6	
		80011				
WESTGOLD	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		22	6	

Signed: Peter Langes

Dated: 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

RINGOLD RESOURCES INC.

NAME Peter Langes MONTH OF Aug 1989

DATE	ADMIN.	PROPTY EVAL.	RECONN	PROJECT						DAY OFF	WORK PERFORMED
1											
2											
3											
4											
5											
6											
7											
8											
9											
10			X								Prepare for field, purchasing
11			X								Travel to Cranbrook & set up camp
12			X								Grochow L59/58
13			X								Grochow
14			X								"
15			X								"
16			X								"
17			X								"
18			X								"
19			X								Rain, organizing camp, map Travel to TB
20			/								R. Turn to Cran. 2 hrs & camp
21			X								Grochow
22			X								"
23			X								Repair canoe & Rain
24			X								L32, L35 grochow
25			X								L30-31 grochow
26			X								L26-29 grochow
27			X								L27-26 grochow
28			\								RAIN
29			X								Truck 20-17
30			X								Truck 12-8
31			X								pack camp & Travel to TB
TOTAL			22								

Original to: M. Grimes, -onto (for Personnel file); :c: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME PETER LANGES MONTH SEPTEMBER 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
MINGOLD - ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	Powell Lake	80011	257	13.5		
		80011				
WESTGOLD	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		13.5		

Signed: PETER LANGES

Dated: 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

MINGOLD RESOURCES INC.

NAME PETER LANGES MONTH OF SEPTEMBER

DATE	ADMIN.	PROP'TY EVAL.	RECONN	Powell						DAY OFF	WORK PERFORMED
1				✓							T Bay
2				✓							To Powell
3				✓							Geochem
4				✓							"
5											"
6											"
7											"
8											"
9											"
10											To T Bay
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21				1/2							To Wawiag
22				✓							Geochem
23				✓							"
24				✓							"
25											
26											
27											
28											
29											
30											
31											
TOTAL				1 1/2							

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0958

Septmeber 1 19 89

PAY ----------NINE HUNDRED SIXTY----------xx $ 960.00

TO ROB BAXTER
372 Lipton
WINNIPEG, Mantioba

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Sept. 1/89	Twelve (12) days worked @ $80.00 per day On Powell Project 12 x $80.00 = $960.00 92007-201	$960.00

INVOICE

BAXTER, Rob
372 Lipton
Winnipeg, Mantioba

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - CASUAL EMPLOYMENT DURING AUGUST 1989

Twelve (12) days casual employment August 20 - 31st

@ $80.00 per day = $960.00.

Rob Baxter
Rob Baxter

APPROVED

Aug 31/89
DATE

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-9060
THUNDER BAY, ONTARIO P7B 5Z4

0994

September 28 19 89

PAY ----------TWENTY-THREE HUNDRED TWENTY----------xx $ 2,320.00

TO ROB BAXTER

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Sept. 28/89	Twenty-nine days work @ $80.00 per day Sept. 1 - 29th, 1989	
	92007-201	$2,320.00

INVOICE

BAXTER, Robert
372 Lipton
Winnipeg, Manitoba

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - TEMPORARY EMPLOYMENT DURING SEPT. 1989

Twenty-nine (29) days employment Sept. 1 - 29th, 1989 @

$80.00 per day = $2,320.00.

Rob Baxter

APPROVED

Sept 29/89
DATE

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1000

October 2 19 89

PAY ----------THREE HUNDRED TWENTY----------xx $ 320.00

TO ROB BAXTER

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Oct. 2/89	Four (4) days employement Oct. 1 - 4, 1989 on Powell Project 92007-201	$320.00

INVOICE

BAXTER, Robert
372 Lipton
Winnipeg, Manitoba

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - TEMPORARY EMPLOYMENT DURING OCT. 1989

Four days (4) days employment Oct. 1 -4th, 1989 @

$80.00 per day = $320.00.

Robert Baxter
Rob Baxter

APPROVED

Oct 10/89
DATE

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1006
October 10 19 89

PAY ----------THREE HUNDRED TWENTY----------xx $ 320.00

TO ROB BAXTER

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

:00687=010: 62=009151"

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Oct. 10/89	Four (4) days employement on Powell Project Oct. 5 - 8th/89 92007-201	$320.00

INVOICE

BAXTER, Robert
372 Lipton
Winnipeg, Manitoba

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - TEMPORARY EMPLOYMENT DURING OCT. 1989

Four days (4) days employment Oct. 5-8th, 1989 @

$80.00 per day = $320.00.

Robert Baxter
Rob Baxter

APPROVED

Oct 10/89
DATE

Original to: M. Grimes, Toronto (for Personnel file); cc: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME [illegible] Baxter

MONTH AUGUST 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
NINGOLD - ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	POWELL	80011	257	12	2	
		80011				
WESTGOLD	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		12	2	

Signed: Robert Barbeb

Dated: 1989

Approved: [illegible]

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

NGOLD RESOURCES INC.

NAME Rob. Baxter

MONTH OF Aug 1989

DATE	ADMIN.	PROP'TY EVAL.	RECONN	POWELL						DAY OFF	WORK PERFORMED
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20			X								Winnipeg to Powell L.
21			X								Teacher L43-40N north
22			X								L38-39 Teacher
23			X								Repair canoe & rain
24			X								L34 geochem
25			X								L33, 36, 37E geochem
26			X								L28-33 geochem
27			X								L21-27 geochem
28			X								RAIN
29			X								Mtn 17-21
30			X								Teacher L17-11
31			X								Pack camp travel to TB.
TOTAL			12								

Original to: M. Grimes, Toronto (for Personnel file); cc: P.H. Pago, Accounts

DISTRIBUTION OF TIME

NAME ROB BAXTER MONTH SEPTEMBER 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
MINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	POWELL LAKE	80011	257	29		
		80011				
WESTGOLD						
	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		29		

Signed: Rob Baxter

Dated: Sept. 28 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

MINGOLD RESOURCES INC.

NAME ROB BAXTER MONTH OF SEPTEMBER

DATE	PROJECT: ADMIN.	PROPRTY EVAL.	RECONN	POWELL	DAY OFF	WORK PERFORMED
1			/			T Bay
2			/			To Powell L.
3			/			EM
4			/			EM
5			/			EM
6			/			EM
7			/			Geochem
8			/			EM
9			/			EM
10			/			To T Bay
11			/			To Powell.
12			/			EM
13			/			EM
14			/			EM Geochem
15			/			EM
16			/			EM
17			/			Geochem
18			/			To WAWIAG.
19			/			EM
20			/			EM
21			/			T Bay
22			/			Geochem.
23			/			Geochem
24			/			Geochem
25			/			Geochem
26			/			EM
27			/			EM
28			/			Return T. Bay
29	\					Warehouse
30						
31						
TOTAL	1		29			

Original to: M. Grimes, Toronto (for Personnel file); cc: P.M. Page, Accounts

DISTRIBUTION OF TIME

NAME ROB BAXTER MONTH OCTOBER 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
MINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	POWELL	80011	257	8		
		80011				
WESTGOLD						
	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		8		

Signed: ROB BAXTER

Dated: 03/10 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

MINGOLD RESOURCES INC.

NAME ROB BAXTER MONTH OF OCTOBER

DATE	PROJECT: ADMIN	PROPTY EVAL	RECONN	Powell Ltd. 35%					DAY OFF	WORK PERFORMED
S 1				✓						Sick (Powell
M 2				✓						Contractor
T 3				✓						
W 4				✓						
T 5				✓						
F 6				✓						with JVX (Powell
S 7				✓						(IP Survey)
S 8				✓						
M 9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TOTAL										

Original to: M. Grimes, Toronto (for Personnel file); cc: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME [illegible] MONTH July 1989

DISTRICT [illegible]

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD 4 DAYS, TAKEN		32826	000	4		
VACATION BFWD ___ DAYS, TAKEN				0		
SAT., SUN., AND PUBLIC HOLIDAYS				9	2	
MINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	Finland	80011	258	1		
	Jamie Frontier	80011	256	1		
	Powell		257	12	2	
	Nault		255	4		
WESTGOLD	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		31		

Signed: [illegible]

Dated: [illegible] 1989

Approved: [illegible]

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

MINGOLD RESOURCES

NAME Brian Nelson MONTH of July 1989

DATE	ADMIN.	PROPTY EVAL.	RECONN	Finland	Powell	Nault	Jamie Front		DAY OFF	WORK PERFORMED
S 1									X	
S 2									X	
3									X	Canada Holiday
4									X	
5									X	4 day Bridge
6									X	
7									X	
S 8									X	
S 9									X	
10			X							Plotting data
11				X						Powell Fly in [illegible]
12				X						" JLF
13				X						" JLF
14				X						" mapping
S 15				X						" MAG
S 16				X						" MAG
17				X						" MAG
18				X						" plotting data
19				X						" " "
20				X						" " "
21				X						" " "
S 22									X	
S 23									X	
24				X						Powell Nault Finland etc
25					X					Nault mapping
26					X					" "
27					X					" "
28						X				Jamie [illegible]
S 29									X	
S 30									X	
31					X					Nault mapping
TOTAL			1	12	4	1			13	

INVOICE

BIDWELL, Peggy
c/o Mingold Resource Inc.
935 Cobalt Crescent
Thunder Bay, Ontario P7B 5Z4

TO: MINGOLD RESOURCES INC.
BOX 28, TORONTO-DOMINION CENTRE
TORONTO, ONTARIO
M5K 1B8

RE: INVOICE - TEMPORARY HELP FOR THE MONTH JULY 1989

Admin.	92001-201	20.5	hours
Prop.Search	80011-202	5.0	
Metalore	80011-249	7.0	
Abernethy	80011-251	1.0	"
Blackwater	80011-252	10.0	"
Nault	80011-255	1.0	"
Powell	80011-257	9.5	"
Finland	80011-258	1.0	"

55.0 hours x $12/Hr. = $ 660.00

PLEASE WITHHOLD CANADA PENSION PLAN AND
UNEMPLOYMENT INSURANCE PLAN FROM TOTAL

APPROVED:_____ DATE:_____

MINGOLD RESOURCES INC.

NAME Peggy Bidwell MONTH OF July

DATE		PROJECT: ADMIN.	PROPTY EVAL.	RECONN.	Nault 255	Powell 257	Finland 258	Abernethy 251	Metalore 249	Blackwater 252	DAY OFF	WORK PERFORMED
	S 1										X	
	S 2										X	
	M 3										X	
	T 4										X	
6.5	W 5	4.5		1.0	1.0	1.0	1.0		1.0			cheques, monthly report, mail
	T 6										X	
	F 7										X	
	S 8										X	
	S 9										X	
	M 10										X	
	T 11										X	
	W 12										X	
	T 13										X	
	F 14										X	
	S 15										X	
	S 16										X	
4.5	M 17	4.5										
5.0	T 18	4.0								1.0		mail, telephone, ... to Peggy
4.5	W 19	4.5										photocopies & mailed above
6.0	T 20	3.0								3.0		... 5 Cr. Tel. Th. Cont. ...
4.0	F 21								4.0			metalore drill logs & data for Plowe... & final Report
	S 22										X	
	S 23										X	
4.0	M 24	1.0							3.0			Metalore assay (Abernethy) Risk Statem...
4.0	T 25	1.0		3.0	3.0							Powell Report, Statement.
	W 26										X	
5.5	T 27			5.5								Powell Report & Claim Data
5.5	F 28		5.5									... Backup. for Blackwater, Nault A...
	S 29											
	S 30											
5.5	M 31	1.0	4.5									Statement & ... Backup
TOTAL		20.5	10.0	1.0	9.5	1.0	1.0	2.0	5.0			

INVOICE

BIDWELL, Peggy
c/o Mingold Resource Inc.
935 Cobalt Crescent
Thunder Bay, Ontario P7B 5Z4

TO: MINGOLD RESOURCES INC.
BOX 28, TORONTO-DOMINION CENTRE
TORONTO, ONTARIO
M5K 1B8

RE: INVOICE - TEMPORARY HELP FOR THE MONTH AUGUST 1989

Admin.	92001-201	10.5 hours
Prop.Search	80011-202	9.0 "
Meta	80011-213	3.5 "
Abernethy	80011-251	5.5 "
Blackwater	80011-252	7.5 "
Paint Lake	80011-254	7.0
Nault	80011-255	5.5 "
Powell	80011-257	27.0 "
Finland	80011-258	2.5 "
		78.0 hours x $12/Hr. = $ 936.00

PLEASE WITHHOLD CANADA PENSION PLAN AND
UNEMPLOYMENT INSURANCE PLAN FROM TOTAL

APPROVED:_____ DATE:_____

M[illegible]GOLD RESOURCES INC.

NAME Peggy Bidwell MONTH OF August

PROJECT

DATE	ADMIN 201	PROPTY EVAL	RECONN	Prop Search 202	Abernethy 251	Nault 255	Powell 257	Finland 258	Blackwater 252	DAY OFF	WORK PERFORMED
4.5 T 1									4.5		Emep backup charges
5.0 W 2				1	.5	.5	2.5	.5			Monthly Report + Powell Report (Mosley
T 3										X	
4.0 F 4							4.0				Eric Mosley's Powell Report.
S 5										X	
S 6										X	
M 7										X	
4.5 T 8				1.0	1.0	1.0	1.5				Cheques,
7.0 W 9			4.0	3.0							[illegible] emep backup mowed lawn [illegible]
7.0 T 10	3.0			4.0							[illegible] supplies
5.0 F 11	1.0		2.0						2.0		Lettus's Ministry - emep applications
S 12										X	
S 13										X	
4.5 M 14	1.0						3.5				Cheques, Exp. Mosley Report.
4.5 T 15			1.0				2.5		1.0		Airborne Blackwater, Powell Rep. Eval. Lew
4.5 W 16		3.5					1.0				Meta Ass Report, Mosley Rpt. (charts)
4.5 T 17	1.0						3.5				Chart samples Powell, Gov't. Cheques
4.5 F 18	1.0						3.5				
S 19										X	
S 20										X	
5.0 M 21					1.0	1.0	2.0	1.0			Cheques, [illegible], Mosley Rpt Exp
4.5 T 22	1.5				1.0	1.0	1.0				prepaids [illegible]
W 23										X	
T 24										X	
F 25										X	
S 26										X	
S 27										X	
M 28										X	
T 29										X	
4.5 W 30	.5				[illegible]	[illegible]	1.0				[illegible]
4.5 T 31	.5				1.0	[illegible]	[illegible]	1.0			[illegible]
TOTAL	10.5	3.5	7.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		= 78.0 HOURS.

INVOICE

BIDWELL, Peggy
c/o Mingold Resource Inc.
935 Cobalt Crescent
Thunder Bay, Ontario P7B 524

TO: MINGOLD RESOURCES INC.
BOX 28, TORONTO-DOMINION CENTRE
TORONTO, ONTARIO
M5K 1B8

RE: INVOICE - TEMPORARY HELP FOR THE MONTH SEPTEMBER 1989

Admin.	92001-201	13.5 hours
Prop.Search	80011-202	27.5 "
Meta	80011-213	6.0 "
Abernethy	80011-251	19.5 "
Blackwater	80011-252	1.0 "
Nault	80011-255	8.0 "
Powell	80011-257	23.0 "
Finland	80011-258	15.0 "

117.5 hours x $12/Hr. = $1,410.00

PLEASE WITHHOLD CANADA PENSION PLAN AND
UNEMPLOYMENT INSURANCE PLAN FROM TOTAL

APPROVED:_____ DATE:_____

MINGOLD RESOURCES INC.

NAME Peggy Bidwell MONTH OF September

DATE	ADMIN.	PROPTY EVAL.	RECONN	Finlayson 5-01	Powell Cl. 2-57	Abernethy 1441-251	Nault 1441-255	Blackwater 1441-252	Meta 213	DAY OFF	WORK PERFORMED
5.0 F 1	1.0		1.0	1.0	1.0	1.0					Paid Expense Acct - Peggy Bidwell Statistics of time
S 2										X	
S 3										X	
M 4										X	
4.0 T 5			1.0	1.0	1.0	1.0					Monthly Rep. Prop. Eval. Expense Acct. (M
6.5 W 6	1.0			2.0				3.5			Claim Status (Meta) Powell Rep. Data Up
6.5 T 7		2.0		2.0				2.5			Evaluations Reports, Assessment Powell,
6.5 F 8		3.0	1.5	2.0							" Cedar Lake, Powell Rpt. Finlayson Status
S 9										X	
S 10										X	
5.0 M 11	1.0	2.0									Cheques, Cuttledge pick-up,
6.5 T 12	1.5		1.0	1.0	3.0						Brian's Expense Acct, Cheques,
6.5 W 13		3.0	1.0	1.0	1.5						Misc. files, cheques, Brian's Acct, Typing
6.0 T 14		2.0	1.0	1.0	1.0	1.0					Cheques & Acct, Typing,
6.0 F 15	1.0	1.0	1.0	1.0	1.0	1.0					Typing, completed Acct, files to 5.0 W.
S 16										X	
S 17										X	
6.0 M 18	1.0	1.0	1.0	1.0	1.0	1.0					Budget preparation, typing - Cuttledge
6.0 T 19	1.0	1.0	1.0	1.0	1.0	1.0					Budget preparation - cheques,
6.5 W 20	1.0	1.5	1.0	1.0	1.0	1.0					Budget Data
6.0 T 21	1.0	1.0	1.0	1.0	1.0	1.0					Budget data, typing, cheques, P.O.
6.0 F 22		1.0	1.0	1.0	3.0						Miscellaneous - Budget almost ready for
S 23										X	
S 24										X	
6.0 M 25		3.0	2.0		1.0						Peg Bingley Expense Acct, Airborne, Meta alternate, NEED MAG
6.5 T 26	1.0	3.0	1.0	.5				1.0			Assessment Blackwater, Cheques, S.O. Interim
6.0 W 27		1.0	1.0		3.0	1.0					Monthly Report Powell Assessment
6.0 T 28	1.0	1.0	1.0		2.0	1.0					Assessment Powell, Claim Status
6.0 F 29	2.0	1.0	1.0		1.0	1.0					Statement, monthly Rep.
S 30											
S 31											
TOTAL	135	27.5	6.0	15.0	23.0	14.5	1.0	1.0	7.5		

INVOICE

BIDWELL, Peggy
c/o Mingold Resource Inc.
935 Cobalt Crescent
Thunder Bay, Ontario P7B 5Z4

TO: MINGOLD RESOURCES INC.
BOX 28, TORONTO-DOMINION CENTRE
TORONTO, ONTARIO
M5K 1B8

RE: INVOICE - TEMPORARY HELP FOR THE MONTH OCTOBER 1989

Admin.	92001-201	13.0	hours
Prop.Search	80011-202	33.5	"
Abernethy	80011-251	11.0	"
Blackwater	80011-252	5.0	"
Nault	80011-255	8.0	"
Powell	80011-257	26.0	"
Finland	80011-258	20.0	"
		116.5	hours x $12/Hr. = $1,398.00

PLEASE WITHHOLD CANADA PENSION PLAN AND UNEMPLOYMENT INSURANCE PLAN FROM TOTAL

APPROVED: _____ DATE: _____

MINGOLD RESOURCES INC.

NAME PEGGY BIDWELL MONTH OF OCTOBER

DATE	ADMIN	PROPTY EVAL	RECONN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	DAY OFF	WORK PERFORMED
S 1									X	
6.5 M 2	1.5				3.0		1.0	1.0		Expense to end of year, marked Ltr. Blackwater Ck. S.Dong. [illegible] STATI
5.5 T 3	2.0	1.0		1.0			1.5			wordperfect manual, cheques
5.5 W 4	1.5	2.0						2.0		cleaned warehouse + office, organized files
5.5 T 5		2.0				1.0	1.5	1.0		Telephone Directory for Brian, Transferred file
5.5 F 6	1.0	1.0		1.0		1.0	1.0	.5		wordperfect. 5.0
S 7									X	
S 8									X	
M 9									X	
5.5 T 10	1.0	4.5								cheques, expense acct - gerald
6.0 W 11	1.0	1.0		1.0	1.0	1.0	1.0			maps to [illegible], cheques, form - mines
5.5 T 12		1.0		1.0	1.0		1.5	1.0		map file
5.5 F 13	1.0						4.5			form made for Brian - Finland
S 14									X	
S 15									X	
7.0 M 16		2.0						5.0		mine listing - Powell / Ltr. ministry, Peter L. [illegible]
6.5 T 17	1.0	4.0						1.5		mine listing. Cheques, powell maps
6.0 W 18	1.0	3.0					1.0	1.0		maps to John, [illegible] mine listing cheques.
6.5 T 19	1.0	5.5								mine list for PLM, Statement,
5.5 F 20		1.0						4.5		photocopied Durham drill logs
S 21									X	
S 22									X	
6.5 M 23		3.0		1.0			1.0	1.5		cheques, postage meter, [illegible] money order, [illegible]
5.5 T 24				1.5		1.0	1.5	1.5		drill log [illegible] 5.0 [illegible]
5.5 W 25				1.5		1.0	1.5	1.5		Printer Keys, cream
5.5 T 26		1.5		1.0		1.0	1.0	1.0		[illegible]
F 27									X	
S 28									X	
S 29									X	
5.5 M 30	[illegible]					[illegible]	[illegible]	1.5		Martin's Expenses, Curries [illegible]
5.5 T 31		[illegible]		1.0		[illegible]	[illegible]	1.5		[illegible]
TOTAL	3.0	33.5		11.0	5.0	8.0	20.0	26.0		= 116.5 hrs.

Original to: M. Grieve, Toronto (for Personnel file); cc: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME Gerald Bidwell MONTH June 1989

DISTRICT T.B.

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN				10		
SAT., SUN., AND PUBLIC HOLIDAYS				8		
NINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	Quality Search	80011	202	2		
	Finland	80011	258	5		
	Powell		257	5		
WESTGOLD						
	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		30		

Signed: [signature]

Dated: June 26 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

...OLD ...SC... S INC.

NAME _____ MONTH OF _____

DATE	ADMIN	PROPTY EVAL	RECONN	PROJECT Finland	PROJECT Powell	DAY OFF	WORK PERFORMED
1				✓			Powell DMEP report
2				✓			Powell memo
S 3							½ day in office
S 4						✓	" " "
5						✓	Powell report
6				✓			" "
7				✓			" "
8							Mining
9						✓	"
S 10						✓	day off
S 11						✓	"
12						✓	Mining
13						✓	"
14						✓	"
15						✓	"
16						✓	"
S 17						✓	day off
S 18						✓	"
19						✓	Mining
20						✓	"
21						✓	"
22			✓			✓	"
23	✓						Finland (grant)
S 24						✓	Powell (202)
S 25						✓	day off
26	✓						day off
27		✓					Powell (202)
28		✓					Finland
29		✓					Finland (to Ft Frances)
30		✓					Finland
							Finland
TOTAL	2	5	5			8	

Original to: M. Grimes, Toronto (for Personnel file); cc: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME G. Bidwell

DISTRICT Thunder Bay

MONTH August 1989

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS				9		
MINGOLD - ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	Property Eval.	80011		5		
	Powell	80011		8		
	Undersill			1		
	Abernethy			3		
	Nault			2		
WESTGOLD	Finland			3		
	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		31		

Signed: [signature]

Dated: Sept 1 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

LD SOL. S1

NAME Gerald Bidwell

MONTH OF August

DATE	ADMIN.	PROPTY EVAL.	REDOWN	Powell	Undersill	Abernethy	Nault	Finland	DAY OFF	WORK PERFORMED
1			✓							Powell - gpd.
2			✓							Powell - gpd.
3				✓						Jellicoe - more core
4	✓									Habit examination - Pigeon R.
S 5									✓	off
S 6									✓	off
H 7									✓	off
8			✓							Powell
9			✓							Powell
10			✓							Powell
11	✓									exam
S 12									✓	off
S 13									✓	off
14	✓									exam
15			✓							Powell
16					✓					Abernethy
17	✓									exam - Hein
18			✓							Powell
S 19									✓	off
S 20									✓	1/2 Powell
21			✓							Powell
22						✓				Nault
23						✓				Nault
24	✓									Exam
25							✓			Finland
S 26									✓	
S 27									✓	
28					✓					Abernethy
29					✓					off Abernethy
30							✓			Finland
31							✓			"
TOTAL	3		8	7	3	2	3		9	= 31

Original to: M. Grimes, Toronto (for Personnel file); cc: P.M. Page, Accounts

DISTRIBUTION OF TIME

NAME Gerald Bidwell MONTH October 1989

DISTRICT T.B.

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32626	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS				9		
NINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	Finland	80011		10		
	Powell	80011		7		
	Abbenessy			1		
	Property Eval.			4		
WESTGOLD						
	Administration					
HUDSON BAY MINING	Office Services	32439	000			
A/cs department	Credit	92099		31	0	

Signed: G. Bidwell

Dated: Nov 03 1989

Approved:

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

...INGOLD RESOURCES INC.

NAME Gerald Bidwell MONTH OF October 89

DATE	ADMIN.	PROPTY EVAL.	RECONN	Finland	Powell	Abbenessy	DAY OFF	WORK PERFORMED
S 1			✓					Packed - office
2			✓					Travel - to Pickle Lake
3			✓					" " " "
4			✓					" " " "
5			✓					" " " "
6			✓					" " to TB
S 7							✓	
S 8							✓	
S 9							✓	
10			✓					Grid
11			✓					Cooked
12	✓							to Chibis Mine (arr. 1 PM)
13	✓	✓						
S 14							✓	
S 15							✓	
16	✓							property evaluation - cont. NW Ont.
17	✓							" " " "
18				✓				Powell - in field
19				✓				" " "
20				✓				" " "
S 21							✓	
S 22							✓	
23				✓				to Thunder Bay PM (Powell - in field)
24					✓			Abbenessy - (to property)
25			✓					Packed - supplies (to Lake Shore Mine)
26				✓				Travel - office
27			✓					Packed - Thunder Mountain
S 28							✓	
S 29							✓	
30				✓				Powell - office
31				✓				" " office
TOTAL		4	10	7	1		9	(31)

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0959

September 1 19 89

PAY ----------FORTY-FIVE HUNDRED----------xx $ 4,500.00

TO GREG DOUGLAS
235 Major Street
Toronto, Ontario
M5S 2L5

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Sept. 1/89	Twenty-five (25) days worked @ $180.00 per day August 7 - 31/89. On Powell Project 25 x $180.00 = $4,500.00	
	92007-201	$4,500.00

INVOICE

DOUGLAS, Greg
235 Major Street
Toronto, Ont. M5S 2L5

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - TEMPORARY EMPLOYMENT DURING AUGUST 1989

Twenty-five (25) days temporary employment Aug. 7th-31st

@ $180.00 per day = $4,500.00.

Greg Douglas

APPROVED

Sept 1/89
DATE

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0995

September 28 19 89

PAY ----------FIFTY-TWO HUNDRED TWENTY----------xx $ 5,220.00

TO GREG DOUGLAS

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 52⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Sept. 28/89	Twenty-nine (29) days worked @ $180.00 per day Sept. 1 - 29th, 1989 92007-201	$5,220.00

INVOICE

DOUGLAS, GREG
235 Major Street
Toronto, Ontario M5S 2L5

TO: MINGOLD RESOURCES INC.
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

RE: INVOICE - TEMPORARY EMPLOYMENT DURING SEPT. 1989

Twenty-nine (29) days employment Sept. 1 - 29th, 1989 @

$180.00 per day = $5,220.00.

Greg Douglas

APPROVED

Sept 29, 1989.
DATE

Original to: M. Grimes, Toronto (for Personnel file); cc: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME GREG DOUGLAS MONTH AUGUST 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
NINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	POWELL	80011	257	25	6	
		80011				
WESTGOLD	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		25	6	

Signed: G Douglas

Dated: Aug 31 1989

Approved: [signature]

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

NGOLD RESOURCES INC.

NAME G. Douglas MONTH OF Aug 1989

DATE	ADMIN	PROPTY EVAL	RECONN	PROJECT						DAY OFF	WORK PERFORMED
1											
2											
3											
4											
5											
6											
7				✓							TRAVEL TO T-BAY
8				✓							OFFICE TRAVEL TO GERALDTON
9				✓							RETURN T-BAY, OFFICE + HIRING
10				✓							PURCHASING SUPPLIES + PUT COMP [illegible]
11				✓							TRAVEL TO POWELL SET UP CAMP
12				✓							SAMPLING + TRAINING L. 59/58
13				✓							Sec / Geochem MAPS.
14				✓							" " "
15				✓							Geology 44E to 46E N BL 105
16				✓							Geology 44E 42E
17				✓							Geology 40E, 36E
18				✓							Geology 34E 32E S of river
19				✓							Rain: Sid mor Travel to T Bay Shopping
20				✓							Travel to Powell
21				✓							Training Rob Beaton 40-43E
22				✓							maps
23				✓							24E, 26E, 28E, 30E S. bdy to BL 105
24				✓							24E 26E 28E 30E BL 105 to River
25				✓							Maps
26				✓							L 20-22 geol
27				✓							L16-18 geol
28				X							RAIN
29				X							Geol L12-7 N Warning
30				X							Geol L12 + 14 S warning
31				X							Pack camp + travel to TB
TOTAL				25							

Original to: M. Grimes, Toronto (for Personnel file); cc: P.H. Page, Accounts

DISTRIBUTION OF TIME

NAME GREG DOUGLAS MONTH SEPTEMBER 1989

DISTRICT Thunder Bay

		ACCOUNT	PROJECT NUMBER	TOTAL DAYS WORKED	W/E & HOLS. WORKED	A/cs DEPT.
TIME-OFF BFWD ___ DAYS, TAKEN		32826	000			
VACATION BFWD ___ DAYS, TAKEN						
SAT., SUN., AND PUBLIC HOLIDAYS						
MINGOLD						
- ADMIN.	TORONTO	92001	000			
	THUNDER BAY	92001	201			
	VANCOUVER	92001	601			
PROJECTS:	Powell	80011	257	29		
		80011				
WESTGOLD						
	Administration					
HUDSON BAY MINING	Office Services	32449	000			
A/cs department	Credit	92099		29		

Signed: [signature]

Dated: Sept 29 1989

Approved: [signature]

File: TS/JAN89/ADM

FOR ACCOUNTING OFFICE ONLY	
Key entered by	
Approval	
Batch no.	
Reference no.	S.R.

MINGOLD RESOURCES INC.

NAME GREG DOUGLAS MONTH OF SEPTEMBER

DATE	ADMIN.	PROPERTY EVAL.	RECONN.	POWELL	DAY OFF	WORK PERFORMED
1			/			T Bay
2			/			T. Powell
3			/			Hotel
4			/			Hotel
5			/			Hotel
6			/			Hotel
7			/			Hotel
8			/			Hotel
9			/			Hotel
10			/			To T Bay
11			/			TO Powell
12			/			EM
13			/			EM
14			/			Goodchem
15			/			EM
16			/			EM
17			/			Murchison
18			/			To WAWASE
19			/			EM
20			/			EM
21			/			TBay
22			/			Goodchem
23			/			Goodchem
24			/			Goodchem
25			/			Murchison
26			/			AM
27			/			EM
28			/			Return T Bay
29			/			Return TBay
30						
31						
TOTAL			29			

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0837

May 29 1989

PAY ----------TWENTY-EIGHT HUNDRED----------xx $ 2,800.00

TO John P. McAllister
158 Front Street
Thunder Bay, Ontario
P7A 4K7

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

MINGOLD RESOURCES INC.

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
May 29/89	Drafting Services from Apr. 26 - May 29/89	
	175 hrs @ $16/hr = $2,800.00	
	80013-257 $2,512.00	
	80013-258 288.00	$2,800.00

OUR NUMBER 13601
DATE May 29/89
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B.

SOLD TO Mingold Resources Inc.

SHIP TO

ADDRESS VIA

INVOICE

	Drafting Services		
	Apr. 26 to May 29		
	175 hrs @ $16/hr	$2800.00	
	John P. McAllister		
	158 Front St.		
	Thunder Bay N.		

D 31

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0929

August 18 19 89

PAY ----------FOURTEEN HUNDRED THIRTY-TWO----------xx $ 1,432.00

TO JOHN McCALLISTER
158 Front Street
Thunder Bay, Ontario
P7A 4K7

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑆00687⑈010⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Aug. 18/89	Drafting Services from July 3 - August 18/89	
	84000-213 $ 192.00	
	84000-257 $1,240.00	$1,432.00

INVOICE

TOP NUMBER	13603
DATE	
TERMS	
P.O.B.	

SOLD TO Mingold Resources Inc

SHIP TO

ADDRESS

	Drafting Services				
	trace drill Sections - 12 hrs. (Mem)				
	Powell Option Mag Sht 2 17 hrs				
	Mag Sht 3 15½ hrs				
	Mag Sht 4 16 hrs				
+	Geology Sheet 2 10 hrs.				
+	Sheet 1 15 hrs.				
	Title Blk 4 hrs.				
	Total 89½ hrs				
	89.5 @ 16/hr = $1432.				

D 31

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1012

October 11 19 89

PAY ----------SIXTEEN HUNDRED TWENTY-FOUR----------xx $ 1,624.00

TO JOHN P. McAllister
158 Front Street
THUNDER BAY, Ontario
P7A 4K7

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈0101⑆ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
October 11/89	Invoice # 13609 Drafting Services		
	August 18 - October 11/89	84000-202	336.00
		84000-257	1,288.00

John P. McAllister
158 Front St.
Th. Bay Ont

SOLD TO Mingold Resources Inc.
Cobalt Cres., Th. Bay, Ont

SHIP TO

ADDRESS VIA

OUR NUMBER 13609
DATE
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B.

INVOICE

		Acct No			
	Drafting Services				
Powell	Trace Contacts Sht 1 4hrs	257			
Neuth	Draw Grid & Plot Geology 20hrs.	255			
Powell	Fix Topo Shts 1+2 4hrs	257			
Powell	Plot Soil Samples 4hrs	257			
Report	Trace Location Maps 21hrs.	~~255~~	-	336	00
Powell	Plot VLF Sht 3 12hrs	257			
"	Sht 4 12hrs	257			
"	Plot Mag Shts. 1,2,3 18½hrs.	257			
Powell	Plot Soil Samples 6hrs.	257		1,288	00
	101.5hrs				
	101.5 @ 16/hr = $1624 hrs.			1624	00

D31

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

1049

November 20 1989

PAY ----------TWELVE HUNDRED THIRTY-FOUR----------xx $ 1,234.00

TO JOHN P. McALLISTER
158 Front Street
THUNDER BAY, Ontario
P7A 4K7

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER _____

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION	AMOUNT
Nov. 20/89	Invoice # 13610 Drafting 84000-257	$1,234.00

Nov 15/89

SAeGY 251

John P. McAllister
158 Front St.
Th. Bay Ont

SOLD TO Mingold Resources Inc.
Cobalt Cres. Th. Bay Ont.

ADDRESS POWELL PROJECT VIA

INVOICE NUMBER 13610
DATE
CUSTOMER'S ORDER
SALESMAN
TERMS

INVOICE

Drafting Services Powell		
VLF (Sht 1 - 2hrs 3 - 12 hrs 2 - 3hrs 4 - 2hrs)		19hrs
Soil Samples (Sht 1 - 2hrs 2 - 2hrs 3 - 2hrs 4 - 2hrs)		8hrs
Geology (Sht 1 - 3hrs 3 - 11½hrs 3 - 3½hrs. 4 - 10½hrs)		28½hrs
Geochem - 12hrs		12hrs
Printing 4hrs		4hrs
		71½hrs.
71.5 @ $16/hr. = $1234.00		

D 31

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONT.

0379

July 13 19 88

PAY ----------SEVEN HUNDRED---------- xx $ 700.00

TO MR. ERIC MOSLEY
Box 789
ATIKOKAN, Ont.
POT 1C0

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL AND HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00985⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
June 24/88	Invoice # 30536	80052-086	$700.00

E. Mosley, Geologist.
Box 789, Atikokan, Ont.
P0T 1C0

INVOICE

OUR NUMBER 30536
DATE June 24/88
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B.

SOLD TO Mingold Res. Inc.
935 Cobalt Cres.
SHIPPED TO THUNDER BAY ONT.
ADDRESS VIA P713 524

3½ days DRAFTING + RESEARCH @ $200/d. Powell Lake Group.			
	700	—	
80052-086			
J. Mosley			
Balance Owing			$700.00

033

42-110/3-00

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONT.

0452

Sept. 1 19 88

PAY --------THIRTY-EIGHT HUNDRED FIFTY----------xx$ 3,850.00

TO MR. ERIC MOSLEY
Box 789
ATIKOKAN, Ont.
POT 1C0

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL AND HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
ug. 20/88	Geological Services	80052-086	$3,850.00

Eric Mosley Exploration (777624 Ont. Ltd)
Box 789 Atikokan, Ont. P0T 1C0
807-597-1301

OUR NUMBER 3053
DATE Aug 20/88
CUSTOMER'S ORDER
SALESMAN
TERMS
F O B

SOLD TO Mingold Res. Inc.
935 Cobalt Cres.
SHIPPED TO Thunder Bay, Ont. P7B 5Z4
ADDRESS VIA

INVOICE

10 days - Mapping (Powell claims) @ $350/d	$	3 500	
1 day - Field Trip with G. Bidwell + P. Martin (includes Expenses)		350	
80052-086	$	3,850	

K. Mosley

D32

AA-42-110/3-00

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0517

October 3 19 88

PAY -------EIGHTY-FIVE HUNDRED----------xx $ 8,500.00

TO MR. ERIC MOSLEY
Box 789
ATIKOKAN, Ontario
P0T 1C0

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER

:00687=010: 62=00915"

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
Sept. 24/88	Invoice # 30541 Mapping	83200-257	$3,500.00
Sept. 24/88	Invoice # 30542 Advance for Linecutting	82000-257	5,000.00

Eric Mosley (777626 Ont. Ltd)
Box 789
Atikokan, Ont.
P0T 1C0

OUR NUMBER 305
DATE Sept 24/88
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B.

SOLD TO Mingold Res. Inc
935 Cobalt Cres
SHIPPED TO Thunder Bay Ont P7B 5Z4
ADDRESS VIA

INVOICE

	Powell Lake Area.		
Advance	Line cutting cut+chain		5,000.00
	From L-8E To West along BL-0		
	+ From L-20E To West along BL-10S.		
			5,000.00

$2000-257

Eric Mosley (777626 Ont. Ltd.)
Box 789
Atikokan, Ont.
P0T 1C0

OUR NUMBER 30541
DATE SEPT 24/87
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B.

SOLD TO Mingold Res. Inc.
935 Cobalt Cres.
SHIPPED TO Thunder Bay, Ont.
ADDRESS P7B 5Z4 VIA

INVOICE

	Powell Lake Area		
10 d.	Mapping Wawiag R.		3,500.00

$3200-257

3,500.00

AA-42-110/3-00

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0660

December 21 19 88

PAY -------Six Thousand Six Hundred Fifty---------- $ 6650.00

TO Eric Mosley, 777626 Ont. Ltd.
Box 789,
Atikokan, Ontario.
P0T 1C0

MINGOLD RESOURCES INC.

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

PER _____

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
Dec 21,1988	Invoice dated Oct 24/88 Powell-geological mapping	80052-257	6650.00

Eric Mosley, 777626 Ont. Ltd
Box 789, Atikokan, Ont. P0T 1C0

OUR NUMBER 30[redacted]3
DATE Oct 24/88
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B.

SOLD TO Mingold Res. Inc.
935 Cobalt Cres.
SHIPPED TO THUNDER BAY, ONT.
ADDRESS _____ VIA _____

INVOICE

39 day Mapping @ $350	13,650	00	
Less Advance	7,000	00	
Balance Owing	$6,650	00	

J. F. Mosley

D33

$350/ day based on geologist & assistant

Mosley assisted by (1) SCOTT PAUL Oct 9-12/88
(2) RICHARD RADOLPH Sept 13-16, 19-23, 26-28/88
Oct 4-7/88

MINGOLD RESOURCES INC.
935 COBALT CRES. PH. 807-623-8060
THUNDER BAY, ONTARIO P7B 5Z4

0692

January 25 19 89

PAY ----------SIX THOUSAND FIFTY----------xx$ 6,050.00

TO Eric Mosley
Box 789
Atikokan, Ontario
POT 1C0

CANADIAN IMPERIAL BANK OF COMMERCE
MEMORIAL & HARBOUR EXPRESSWAY
THUNDER BAY, ONTARIO

MINGOLD RESOURCES INC.

PER

⑈00687⑈010⑈ 62⑈00915⑈

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHEQUE IS IN PAYMENT OF ITEMS DESCRIBED BELOW

DATE	DESCRIPTION		AMOUNT
Dec. 12/88	Mapping and Drafting	83200-257	$1,050.00
Jan. 19/89	Advance on Linecutting	82000-257	$5,000.00

ERIC MOSLEY 777624 ONT. LTD.
BOX 789
ATIKOKAN, ONT.

OUR NUMBER 30548
DATE JAN 19/89
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B

SOLD TO MINGOLD RES INC.
SHIPPED TO
ADDRESS VIA

INVOICE

	Powell Lake Area		
	Advance Linecutting		
	L-0 to L-56 W		
	B.L's 1470 S + 6400 N		
		$5,000	00
	J. Mosley	$5,000	00
	$2200 - 257		

E. MOSLEY, 777624 ONT. LTD
BOX 789 ATIKOKAN, ONT.
POT 1C0

OUR NUMBER 30547
DATE Dec 12/88
CUSTOMER'S ORDER
SALESMAN
TERMS
F.O.B

SOLD TO MINGOLD RES. INC.
935 Cobalt Cres.
SHIPPED TO THUNDER BAY
ADDRESS VIA

INVOICE

3	days MAPPING/DRAFTING @ 350	1050	00
	Powell LAKE OPTION		
	BAL. OWING	$1050	00
	J. Mosley		
	$3200 - 257		

Ministry of Northern Development and Mines
Ontario

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

DOCUMENT 1
W8904.416

52B07NW0017 2.12924 POWELL LAKE

900

Page 1 of 2

Mining Act

Do not use shaded areas below.

Type of Survey(s)	Township or Area
GEOPHYSICS - VLF ELECTROMAGNETIC SURVEY	POWELL LAKE (G-549)

Claim Holder(s)	Prospector's Licence No.
MINGOLD RESOURCES INC. 2.12924	T-4617

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

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Terraphysics Ltd., Mingold Resources Inc.	16 Day / 12 Mo. / 88 Yr. — 23 Day / 09 Mo. / 89 Yr.	205 km

Name and Address of Author (of Geo-Technical report): G. Douglas, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	· Electromagnetic	20
	· Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
TB	see accomanying list of claims				

RECEIVED '89 SEP 29 Pm 3 37 THUNDER BAY MINING DIVISION

Total number of mining claims covered by this report of work: 110

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

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

Date: Sept. 28/89

Recorded Holder or Agent (Signature)

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2,200	Sept 29 1989	
	Date Approved as Recorded	Branch Director
	See revised work statement	

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: G. Bidwell, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Date Certified	Certified by (Signature)
Sept. 28/89	

1362 (85/12)

POWELL PROJECT - LIST OF CLAIMS

Sept. 1989

TB 1000633
1000634
1000635
1005489
1010433
1010434
1010435
1010436
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RECEIVED
THUNDER BAY
MINING DIVISION
'89 SEP 29 PM 3 37

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W8904-417

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
EXPENDITURES - SURFACE ROCK AND SOIL SAMPLE ASSAYING	POWELL LAKE (G-549)

Claim Holder(s): MINGOLD RESOURCES INC. 2.12924

Prospector's Licence No.: T-4617

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

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
MINGOLD RESOURCES INC.	01 06 89 (Day Mo. Yr.) 20 09 89 (Day Mo. Yr.)	

Name and Address of Author (of Geo-Technical report): G. BIDWELL, 935 Cobalt Crescnet, Thunder Bay, Ontario P7B 5Z4

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	· Electromagnetic	
	· Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
TB	1019663	40
	1019664	40
	1019665	40
	1019666	40
	1019667	40
	1019668	40
	1019669	40
	1019670	40
	1019671	40
	1019672	40
	1019673	40
	1019674	40
	1019675	40
	1019676	40
	1019677	40
	1019678	40
	1019679	40
	1019680	40
	1019681	40
	1019682	40
	1019683	40

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED '89 SEP 29 PM 3 37 MINING DIVISION THUNDER BAY

Expenditures (excludes power stripping)

Type of Work Performed: ASSAYING

Performed on Claim(s): TB 1000633-635, 1005489, 1010433-440, 1012305-325, 1019659-662, 1020180-201, 1021061-075, 1021091-099, 1021122, 1021146-156, 1021174-179, 1021211-16, 1045118-121, 1055104-107, 1079914-917.

$ 16,445.00 ÷ 15 = 1097 (Days Credits)

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

excess days credit (257) to be kept as a credit balance

Total number of mining claims covered by this report of work: 21

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1097	Sept 29 1989	
	Date Approved as Recorded	Branch Director
	See revised work Statement	

Date: Sept. 22/89

Recorded Holder or Agent (Signature):

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: G. BIDWELL, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Date Certified: Sept. 22/89

Certified by (Signature):

1362 (85/12)

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. W8904.490

Mining Act — Report of Work (Geophysical, Geological and Geochemical Surveys) 2.12924

Instructions
- Please type or print
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch

Type of Survey(s)	Mining Division	Township or Area
INDUCED POLARIZATION	THUNDER BAY	POWELL LAKE (G-549)

Recorded Holder(s)	Prospector's Licence No.
MINGOLD RESOURCES INC.	T-4617
Address	**Telephone No.**
Box 29 TORONTO DOMINION CENTRE, TORONTO, ONTARIO M5K1B5	(416) 362-2192

Survey Company: JVX LIMITED UNIT #22 60 WEST WILMOT ST., RICHMOND HILL, ONTARIO L4B1M1

Name and Address of Author (of Geo-Technical Report): BLAINE WEBSTER

Date of Survey (from & to): 4 10 89 (Day Mo Yr) — 7 10 89

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
For each additional survey: using the same grid: Enter 20 days (for each)	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other (I.P.) ← 20 ~~21.5~~	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	
	Magnetometer	
	Other	
Total miles flown over claim(s).		

Date: Nov 24/89 — Recorded Holder or Agent (Signature): [signature]

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
TB	1021063				
"	1021091				
"	1021093				
"	1021094				
"	1021095				
	1021097				
	1021098				
	1021099				

* MAXIMUM CREDITS HAVE BEEN REACHED

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DEC 13 1989
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 8

Certification Verifying Report of Work

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

Name and Address of Person Certifying: GERALD BIDWELL 935 COBALT CRES. THUNDER BAY, ONTARIO P7B5Z4

Telephone No.: (807) 623-8060 — Date: Nov 24/89 — Certified By (Signature): [signature]

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Total Days Credits: 160 — Date Recorded: NOVEMBER 27/89 — Mining Recorder: [signature]

Date Approved as Recorded: 17 Jan 90 — Provincial Manager, Mining Lands: [signature]

Received Stamp: RECEIVED 89 NOV 27 PM 12 55 THUNDER BAY MINING LANDS SECTION

RJS

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey	Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
INDUCED POLARIZATION	25	X 7 =	175	+	0	=	175	÷	8	=	21.8
		X 7 =		+		=		÷		=	
		X 7 =		+		=		÷		=	
		X 7 =		+		=		÷		=	

5 men x 4 days x 1.25 (10 hr days) = 25

Ministry of Northern Development and Mines
Ontario

Mining Lands

DOCUMENT No. W9004• 18

RECEIVED JAN 24 1990

Mar 13

Mining Act Report of Work
(Geophysical, Geological and Geochemical Surveys)

Instructions:
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

MINING LANDS SECTION

Type of Survey(s)	Mining Division	Township or Area
GEOLOGICAL	Thunder Bay	Powell Lake (G-549)

Recorded Holder(s): MINGOLD RESOURCES INC.

2.12924

Prospector's Licence No.: T-4617

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

Telephone No.: (416) 362-2192

Survey Company: MINGOLD RESOURCES INC., E. MOSLEY, G. DOUGLAS

Name and Address of Author (of Geo-Technical Report): 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Date of Survey (from & to): 22 08 88 (Day Mo Yr) – 23 11 89 (Day Mo Yr)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	8.7
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	
	Magnetometer	
	Other	

Total miles flown over claim(s).

Date: Jan. 9/90

Recorded Holder or Agent (Signature): [signature]

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SEE	ACCOMPANYING	SHEET			

'90 JAN 12 AM 10 36

RECEIVED THUNDER BAY DIVISION

Total number of mining claims covered by this report of work: 109

Certification Verifying Report of Work

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

Name and Address of Person Certifying: GERALD BIDWELL, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Telephone No.: (807) 623-8060

Date: Jan. 9/90

Certified By (Signature): [signature]

Received Stamp

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Total Days Cr. Recorded	Date Recorded	Mining Recorder
948	JAN. 12, 1990	[signature]
	Date Approved as Recorded	Provincial Manager, Mining Lands
	19/Feb/90	[signature]

L/S

Assessment Work Breakdown

n Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey GEOLOGICAL MAPPING

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
137	X	7	=	957	+	0	=	957	÷	109	=	8.7

Type of Survey

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
	X	7	=		+		=		÷		=	

Type of Survey

Technical Days		7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	÷	No. of Claims	=	Days per Claim
	X	7	=		+		=		÷		=	

POWELL PROJECT - GEOLOGICAL MAPPING COVERAGE

TB 1000633
1000634
1000635
1005489
1010433
1010434
1010435
1010436
1010437
1010438
1010439
1010440
1012305
1012306
1012307
1012308
1012309
1012310
1012311
1012312
1012313
1012314
1012315
1012316
1012317
1012318
1012319
1012320
1012321
1012322

TB 1019659
1019660
1020182
1020183
1020184
1020185
1020186
1020187
1020188
1020189
1020190
1020193
1020194
1020195
1020196
1020197
1020198
1020199
1020200
1021061
1021062
1021063
1021064
1021065
1021066
1021067
1021068
1021069
1021076
1021077

TB 1021072
1021073
1021074
1021075
1021091
1021092
1021093
1021094
1021095
1021096
1021097
1021098
1021099
1021122
1021146
1021147
1021148
1021149
1021150
1021151
1021152
1021153
1021154
1021155
1021156
1021174
1021175
1021176
1021177
1021178

TB 1021179
1021211
1021212
1021213
1021214
1021215
1021216
1045118
1045119
1045120
1045121
1055104
1055105
1055106
1055107
1079914
1079915
1079916
1079917

109 CLAIMS

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BUREAU OF MINES
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JAN 24 1990
MINING LANDS SECTION

Called
MARCH 13

MINING LANDS

Ministry of Northern Development and Mines
Ontario

DOCUMENT No. W9004• 19

Instructions
- Please type or print
- Refer to Section 77, the Mining Act for assessment [illegible] and maximum credits allowed per survey type
- If number of mining claims traversed exceeds [illegible] attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch

Mining Act Report of Work
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s): GEOCHEMICAL	Mining Division: Thunder Bay	Township or Area: Powell Lake (G-549)
Recorded Holder(s): MINGOLD RESOURCES INC. 2.12924		Prospector's Licence No.: T-4617
Address: P.O. Box 28, Toronto Dominion Centre, Toronto, Ontario M5K 1B8		Telephone No.: (416) 362-2192
Survey Company: MINGOLD RESOURCES INC., G. DOUGLAS		
Name and Address of Author (of Geo-Technical Report): 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4		Date of Survey (from & to): 12 08 89 (Day Mo Yr) 24 11 89 (Day Mo Yr)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	7.1
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	

Total miles flown over claim(s):

Date: Jan. 9/90 — Recorded Holder or Agent (Signature): [signature]

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
SEE ACCOMPANYING SHEET					

'90 JAN 12 AM 10 56
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THUNDER BAY
MINING DIVISION

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAR 16 1990
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Total number of mining claims covered by this report of work: 89

Certification Verifying Report of Work

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

Name and Address of Person Certifying: GERALD BIDWELL, 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Telephone No.	Date	Certified By (Signature)
(807) 623-8060	Jan. 9/90	[signature]

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Total Days Cr. Recorded	Date Recorded	Mining Recorder
632	JAN. 12, 1990	[signature]
	Date Approved as Recorded: Feb 20, 1990	Provincial Manager, Mining Lands: [signature]

1362 (89/06)

RJS

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey GEOCHEMICAL

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
91	X	7	634	+	0	=	634	÷	89	=	7.1

Type of Survey

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		÷		=	

Type of Survey

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		÷		=	

Type of Survey

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		÷		=	

POWELL PROJECT - SOIL GEOCHEMISTRY COVERAGE

TB 1000633	TB 1020190	TB 1021099
1000634	1020191	1021122
1000635	1020193	1021146
1010433	1020194	1021147
1010434	1020195	1021148
1010435	1020199	1021149
1010436	1020200	1021150
1010437	1021061	1021151
1010438	1021062	1021174
1010439	1021063	1021176
1010440	1021064	1021177
1012305	1021065	1021178
1012306	1021066	1021179
1012307	1021067	1021212
1012308	1021068	1021213
1012309	1021069	1021215
1012310	1021070	1021216
1012311	1021071	1045118
1012312	1021072	1045119
1012313	1021073	1045120
1012315	1021074	1045121
1012316	1021075	1055104
1012317	1021091	1055105
1012318	1021092	1055106
1012319	1021093	1055107
1012320	1021094	1079914
1012321	1021095	1079915
1020180	1021096	1079916
1020181	1021097	1079917
1020189	1021098	89 claims

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'90 JUN 12 AM 10 57
VANCOUVER BAY
MINING DIVISION

Ministry of Northern Development and Mines
Ontario

DOCUMENT No. W9004• 139

April 21
May 21

MINING LANDS

Instructions
- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Report of Work
Mining Act
(Expenditures, Subsection 77(19))

Type of Work Performed	Mining Division	Township or Area
EXPENDITURES - SOIL SAMPLE ASSAYING	THUNDER BAY	POWELL LAKE (G-549)

Recorded Holder	Prospector's Licence No.
MINGOLD RESOURCES INC. 2.12924	T-4617

Address	Telephone No.
Box 28, Toronto Dominion Centre, Toronto, Ontario M5K 1B8	(416) 362-2192

Work Performed By
MINGOLD RESOURCES INC.

Name and Address of Author (of Submission)	Date When Work was Performed From: Day Mo. Yr. To: Day Mo. Yr.
GERALD BIDWELL 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4	15 08 89 / 31 12 89

If the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. See Note No. 1 on reverse side	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
	SEE ATTACHED SHEET							

Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Instructions
Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column below).

Calculation of Expenditure Days Credits
Total Expenditures 6+257=263 days credit balance
$ 7,144.88 ÷ 15 = Total Days Credits 476

Total Number of Mining Claims Covered by this Report of Work: ~~37~~ 35

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
				SEE ATTACHED SHEET							

Total Number of Days Performed	Total Number of Days Claimed	Total Number of Days to be Claimed at a Future Date
739	~~739~~ 670.6	~~0~~ 68.4

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest of the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	March 22/90	[signature]

Certification Verifying Report of Work

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

Name and Address of Person Certifying
Gerald Bidwell 935 Cobalt Crescent, Thunder Bay, Ontario P7B 5Z4

Telephone No.	Date	Certified By (Signature)
(807) 623-8060	March 22/90	[signature]

Received Stamp
'90 MAR 28 AM 11 47
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MINING DIVISION
THUNDER BAY
APR 09 1990
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MINING LANDS SECTION

Office Use Only

Total Days Recorded	Date Recorded	Mining Recorder
739	Mar 22/90	[signature]
	Date Approved as Recorded	Provincial Manager, Mining Lands
	See revised work statement	

WORK DAYS PERFORMED ON EACH CLAIM
(based on total expenditure of 23,589.88)

CLAIM No	DAYS	CLAIM No	DAYS	CLAIM No	DAYS
1000633	6.3	TB 1020190	28.5	TB 1021099	11.9
1000634	0.8	1020191	4.0	1021122	16.6
1000635	7.9	1020193	0.8	1021146	22.9
1010433	5.5	1020194	6.3	1021147	19.8
1010434	10.3	1020195	7.1	1021148	9.5
1010435	19.8	1020199	12.6	1021149	5.5
1010436	6.3	1020200	12.6	1021150	3.2
1010437	6.3	1021061	56.7	[illegible]	—
1010438	5.5	1021062	69.3	1021174	27.7
1010439	22.9	1021063	15.0	1021176	6.3
1010440	35.6	1021064	22.9	1021177	4.7
1012305	2.4	1021065	55.9	1021178	8.7
1012306	22.9	1021066	48.0	1021179	3.2
1012307	17.4	1021067	40.3	1021212	30.8
1012308	25.3	1021068	34.0	1021213	20.5
1012309	14.2	1021069	8.7	1021215	8.7
1012310	26.9	1021070	32.4	1021216	42.5
1012311	11.1	1021071	41.7	1045118	5.5
1012312	9.5	1021072	32.4	1045119	22.9
1012313	21.3	1021073	30.0	1045120	15.8
1012315	10.3	1021074	15.8	1045121	5.5
1012316	13.4	1021075	1.6	1055104	5.5
1012317	12.6	1021091	38.7	1055105	21.3
1012318	19.0	1021092	3.2	1055106	23.7
1012319	4.7	1021093	19.8	1055107	4.0
1012320	15.8	1021094	7.1	1079914	43.3
1012321	4.7	1021095	7.9	1079915	50.4
1020180	1.6	1021096	20.5	1079916	40.3
1020181	4.7	1021097	18.2	1079917	21.3
1020189	11.9	1021098	1.6		

(●)ENDITURE DAYS CREDIT TO BE ASSIGNED AS FOLLOWS:

CLAIM No	DAYS CREDIT
TB 1005489	4.3
1010433	2.2
1012324	8.0
1012325	3.0
1019659	4.3
1019683	0.7
1020186	46.3
1020191	10.9
1020192	13.0
1020201	3.0
1021061	25.0
1021062	25.0
1021063	25.0
1021064	25.0
1021065	25.0
1021066	25.0
1021067	25.0
1021068	25.0
1021069	29.2
~~1021070~~	39.2
1021071	25.0
1021072	25.0
1021073	25.0
1021074	25.0
1021075	25.0
1021091	25.0
1021092	25.0
1021093	25.0
TB 1021094	25.0
1021095	25.0
1021096	25.0
1021097	25.0
1021098	25.0
1021099	15.2
~~1021150~~	29.2
1021156	1.3
1021177	4.2
37 claims	739 man-days

RECEIVED
THUNDER BAY
'90 MAR 22 AM 11 47

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (416) 965-4888

February 15, 1990

Your File: W8904-416
Our File: 2.12924

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 January 15, 1990 for Geophysical (Electromagnetic) Survey submitted on Mining Claims TB 1000633 et al in Powell 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,

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

LV:pt
Enclosure

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

Resident Geologist
Thunder Bay, Ontario

Mingold Resources Inc.
Toronto, Ontario

Ministry of Northern Development and Mines

Technical Assessment Work Credits

File 2.12924

Date January 16/1990

Mining Recorder's Report of Work No. W8904-416

Recorded Holder
MINGOLD RESOURCES

Township or Area
POWELL LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic 20 days Magnetometer ____ days 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.	TB 1000633, 1000635 1010434 to 436 incl. 1010438 to 440 incl. 1012305 to 313 incl. 1012315 to 320 incl. 1019660 10201804 to 183 incl. 1020185 1020187 to 190 incl. 1020193 to 201 incl. 1021061 to 075 incl. 1021091 to 099 incl. 1021122 1021146 to 149 incl. 1021151 to 156 incl. 1021174 to 179 incl. 1021211 to 214 incl. 1021216 1045118 to 121 incl.

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

15 days electromagnetics:	TB 1000634, 1010437, 1012314, 1012321-22, 1019661, 1020184, 1021215
10 days electromagnetics:	TB 1005489, 1012325, 1019659, 1019662, 1020192
5 days electromagnetics:	TB 1010433, 1012324, 1020186, 1020191, 1021150

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.

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (416) 965-4888

January 16, 1990

Your file: W8904-417
Our file: 2.12924

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

Dear Sir:

Re: Data for Expenditures submitted under Section 77(19)
of the Mining Act R.S.O. 1980 on Mining Claims TB 10 19663
et al in Powell Lake Area.

The enclosed statement of assessment work credits for Expenditures has 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

LS:eb
Enclosure
cc: Resident Geologist
Thunder Bay, Ontario

Mingold Resources Inc.
P.O. Box 28, T-D Centre
Toronto, Ontario
M5K 1B8

G. Bidwell
935 Cobalt Crescent
Thunder Bay, Ontario
P7B 5Z4

Ministry of Northern Development and Mines

Technical Assessment Work Credits

File: 2.12924

Date: Jan 16, 1990

Mining Recorder's Report of Work No.: W8904-417

Recorded Holder: MINGOLD RESOURCES INC.

Township or Area: POWELL LAKE AREA.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$16,445.00 spent on Assaying Samples taken from Mining Claims:
Electromagnetic _____ days	TB 1000633 to 635 incl., 1010433 to 440 incl.
Magnetometer _____ days	1012305 to 313 incl., 1012315 to 322 incl.
Radiometric _____ days	1020180-81, 1020189 to 191 incl, 1020194-95
Induced polarization _____ days	1020199-200, 1021061 to 075 incl.
Other _____ days	1021091 to 099 incl., 1021122, 1021134,35,
Section 77 (19) See "Mining Claims Assessed" column	1021146 to 150 incl., 1021158-59, 1021171,
Geological _____ days	1021174, 1021176 to 179 incl., 1021213,
Geochemical _____ days	1021227-228, 1045118 to 121 incl.
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	1096.3 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.
☐ 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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

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

Telephone: (416) 965-4888

May 11, 1990

Your file: W8904-139
Our file: 2.12924

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

Dear Madam/Sir:

Re: Data for Expenditures submitted under Section 77(19) of the Mining Act R.S.O. 1980 on Mining Claims: TB 1000633 et al in Powell Lake Area

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The enclosed statement of assessment work credits for Expenditure has 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

LS:dvl
Enclosure

cc: Mingold Resources Inc.
Toronto, Ontario

Gerald Bidwell
Thunder Bay, Ontario

Resident Geologist
Thunder Bay, Ontario

Ministry of Northern Development and Mines

Ontario

Technical Assessment
Work Credits

File	
2.12924	
Date	Mining Recorder's Report of Work No.
May 11, 1990	W8904-139

Recorded Holder
Mingold Resources Inc.

Township or Area
Powell Lake Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$7144.88 spent on Assaying Samples taken from Mining Claims:
Electromagnetic _____ days	TB 1000633 to 635 incl., 1010433 to 440 incl. 1012305 to 313 incl., 1012315 to 322 incl. 1020180-81, 1020189 to 191 incl. 1020194-95 1020199-200, 1021061 to 075 incl. 1021091 to 099 incl., 1021122, 1021134-35, 1021146 to 150 incl., 1021158-59, 1021171, 1021174, 1021176 to 179 incl., 1021213,. 1021227-228, 1045118 to 121 incl.
Magnetometer _____ days	
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.	476.3 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.
☐ 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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

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) INDUCED POLARIZATION

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company JVX LIMITED

Author of Report BLAINE WEBSTER

Address of Author #22 - 60 WEST WILMOT ST., RICHMOND HILL ONT. L4B1M6

Covering Dates of Survey Sept 4-7, 1989 (linecutting to office)

Total Miles of Line Cut _____

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Nov 29, 1989 SIGNATURE: _____ Author of Report or Agent

Res. Geol. _____ Qualifications 2.2328

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
TB	1021063
	1021091
	1021093
	1021094
	1021095
	1021097
	1021098
	1021099

TOTAL CLAIMS 8

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 120 Number of Readings 120

Station interval 25 metres Line spacing 100 metres

Profile scale

Contour interval various – see pseudosections

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency (specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument SCINTREX IPR-11 BROADBAND TIME DOMAIN

Method ☑ Time Domain ☐ Frequency Domain

Parameters – On time 2.0 sec. Frequency

– Off time 2.0 sec. Range

– Delay time

– Integration time

Power see report

Electrode array

Electrode spacing

Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

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

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company TERRAPHYSICS, MINGOLD, DOUGLAS

Author of Report DOUGLAS et al

Address of Author 935 COBALT CRES., THUNDER BAY, ONT

Covering Dates of Survey APRIL/88 to SEPT/89
(linecutting to office)

Total Miles of Line Cut ≈ 210 km

SPECIAL PROVISIONS CREDITS REQUESTED

100 metre line spacing

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	20
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Nov 29, 1989 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.10650

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

SEE ACCOMPANYING SHEET

TOTAL CLAIMS 110

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations ≈ 1600 Number of Readings ≈ 1600

Station interval 25 meters Line spacing 100 meters

Profile scale

Contour interval

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument GEONICS EM-16

Coil configuration

Coil separation

Accuracy

Method: ☑ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency SEATTLE, WASHINGTON (specify V.L.F. station)

Parameters measured IN-PHASE and QUADRATURE (out-of-phase)

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

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) SOIL GEOCHEMISTRY

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company MINGOLD RES. INC., DOUGLAS

Author of Report DOUGLAS et al

Address of Author 935 COBALT CRES., THUNDER BAY, ONT

Covering Dates of Survey AUG 1/89 to NOV 1/89
(linecutting to office)

Total Miles of Line Cut ≈ 210 km

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: NOV 29/89 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

SEE ACCOMPANYING SHEET

TOTAL CLAIMS 89

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample Soil ("B" Horizon)
(Nature of Material)

Average Sample Weight 200 gm

Method of Collection Auger or shovel

Soil Horizon Sampled "B"

Horizon Development _____

Sample Depth 20 cm – 70 cm

Terrain Typical shield

Drainage Development Poor

Estimated Range of Overburden Thickness
0 – 20 metres

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis
See report

General _____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

ppm
(Cu,) Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others Au ppb

Field Analysis (See report tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

POWELL PROJECT - SOIL GEOCHEMISTRY COVERAGE

TB 1000633
1000634
1000635
1010433
1010434
1010435
1010436
1010437
1010438
1010439
1010440
1012305
1012306
1012307
1012308
1012309
1012310
1012311
1012312
1012313
1012315
1012316
1012317
1012318
1012319
1012320
1012321
1020180
1020181
1020189

TB 1020190
1020191
1020193
1020194
1020195
1020199
1020200
1021061
1021062
1021063
1021064
1021065
1021066
1021067
1021068
1021069
1021070
1021071
1021072
1021073
1021074
1021075
1021091
1021092
1021093
1021094
1021095
1021096
1021097
1021098

TB 1021099
1021122
1021146
1021147
1021148
1021149
1021150
1021151
1021174
1021176
1021177
1021178
1021179
1021212
1021213
1021215
1021216
1045118
1045119
1045120
1045121
1055104
1055105
1055106
1055107
1079914
1079915
1079916
1079917

89 claims

Powell Project

Soil Geochemistry - Man Days

Sampling (10 hour days)

J. Koza	Aug 12-18/89	7
P. Langes	Aug 12-18, 21, 22, 24-27 29, 30, Sept. 3-9, 22-24/89	25
R. Baxter	Aug 21, 22, 24-27, 29, 30 Sept 7, 14, 17, 22-25, Oct 1-4/89	19
G. Douglas	Aug 12-14, Sept 14, 17, 22-25/89	10
		61

$61 \times 1.25 \times 7 = 533$ man days

Report Writing (8 hour days)

G. Douglas	Oct 20-24/89	5

$5 \times 1 \times 7 = 35$ man days

Drafting

J. McAllister	July/89	25 hours
	Sept/89	31 hours
	Nov/89	20 hours
		76 hours

$76/8 \times 7 = 66$ man days

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) GEOLOGICAL

Township or Area POWELL LAKE (G-549)

Claim Holder(s) MINGOLD RESOURCES INC.

Survey Company DOUGLAS, MOSLEY, MINGOLD RES. INC.

Author of Report DOUGLAS et al

Address of Author 935 COBALT CRES. THUNDER BAY, ONT.

Covering Dates of Survey AUG/88 to NOV/89
(linecutting to office)

Total Miles of Line Cut ≈ 210 km

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

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

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

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

DATE: Nov 29/89 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

SEE ACCOMPANYING SHEET

If space insufficient, attach list

TOTAL CLAIMS 109

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION / RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

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POWELL PROJECT - GEOLOGICAL MAPPING COVERAGE

TB 1000633	TB 1019659	TB 1021072	TB 1021179
1000634	1019660	1021073	1021211
1000635	1020182	1021074	1021212
1005489	1020183	1021075	1021213
1010433	1020184	1021091	1021214
1010434	1020185	1021092	1021215
1010435	1020186	1021093	1021216
1010436	1020187	1021094	1045118
1010437	1020188	1021095	1045119
1010438	1020189	1021096	1045120
1010439	1020190	1021097	1045121
1010440	1020193	1021098	1055104
1012305	1020194	1021099	1055105
1012306	1020195	1021122	1055106
1012307	1020196	1021146	1055107
1012308	1020197	1021147	1079914
1012309	1020198	1021148	1079915
1012310	1020199	1021149	1079916
1012311	1020200	1021150	1079917
1012312	1021061	1021151	
1012313	1021062	1021152	109 CLAIMS
1012314	1021063	1021153	
1012315	1021064	1021154	
1012316	1021065	1021155	
1012317	1021066	1021156	
1012318	1021067	1021174	
1012319	1021068	1021175	
1012320	1021069	1021176	
1012321	1021070	1021177	
1012322	1021071	1021178	

Powell Project

Geological Mapping - Man Days

Mapping (10 hour days)

B. Nelson	July 14/89	1
G. Bidwell	June 2, Oct 18-20/89	4
G. Douglas	Aug 15-18, 22-27, 29, 30, Sept 3-9/89	19
E. Mosley	Aug to Oct 1/88 (39 days)	39
S. Paul	Oct 9-12/88	4
R. Kadolph	Sept 13-16, 19-23, 26-28, Oct 4-7/88	16
		83

83 × 1.25 × 7 = 726 man days

Report Writing (8 hour days)

G. Bidwell	Aug 1, 2, Oct 26, 30, 31/89	5
G. Douglas	Oct 10-19/89	10
E. Mosley	June 1/88 (3½ days)	3½
		18½

18.5 × 1 × 7 = 129 man days

Drafting

S. Beauchamp	April 3, 4, 6, 7, 10/89	15.5 hours
S. McAllister	Sept 1/89	24 hours
	Nov 1/89	28.5 hours
E. Mosley	Dec 1/88 (3 days)	24 hours
		92 hours

92/8 × 7 = 80 man days

Typing

P. Bidwell	July 25, 27/89	5 hours
	Aug 2, 4, 14, 16/89	10 hours
	Sept 2/89	10 hours
		25 hours

25/8 × 7 = 22 man days

MINGOLD RESOURCES INC.

TELEPHONE (807) 623-8060
FAX (807) 623-3730

935 COBALT CRESCENT
THUNDER BAY, ONTARIO P7B 5Z4

November 28, 1989

W. R. Cowan, Manager
Mining Lands Section
Mines and Minerals Division
Whitney Block, Room 6610
Queen's Park
TORONTO, Ontario
M7A 1W3

Dear Mr. Cowan:

Re: Mining Claims TB 1000633 et al - Powell Lake Area

Enclosed is the technical report (in duplicate) covering "Reports of Work" filed at Thunder Bay Mining Recorder's office September 29, 1989 and November 27, 1989. Copies of the "Reports of Work" are found in Appendix VII.

Please note that assay charges totalling $23,589.88 have been expended. The report of work totals $16,445.00. The remaining assessment available will be applied at a later date.

Yours sincerely,

G. Bidwell
Regional Representative

Encl.
c.c. Powell Claim data
PLM

MINGOLD RESOURCES INC.

TELEPHONE (807) 623-8060
FAX (807) 623-3730

935 COBALT CRESCENT
THUNDER BAY, ONTARIO P7B 5Z4

RECEIVED

DEC 01 1989

MINING LANDS SECTION

November 30, 1989

W. R. Cowan, Manager
Mining Lands Section
Mines and Minerals Division
Whitney Block, Room 6610
Queen's Park
TORONTO, Ontario
M7A 1W3

Dear Mr. Cowan:

Re: Mining Claims TB 1000633 et al - Powell Lake Area

The Powell Lake Report (in duplicate) was sent to you November 28, 1989 via Purolator Courier. The enclosed backup data was to go with the report but was not attached in error.

I have also enclosed a photocopy of the front cover of the report this data is to go with.

Yours sincerely,

G. Bidwell
Regional Representative

Encl.
c.c. file

Powell Project - Soil Geochemistry Coverage

TB 1000633
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89 claims

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POWELL PROJECT - GEOLOGICAL MAPPING COVERAGE

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109 CLAIMS

RECEIVED
BUREAU OF LAND MANAGEMENT
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MINGOLD RESOURCES INC.

Kashabowie (Powell Lake) Area

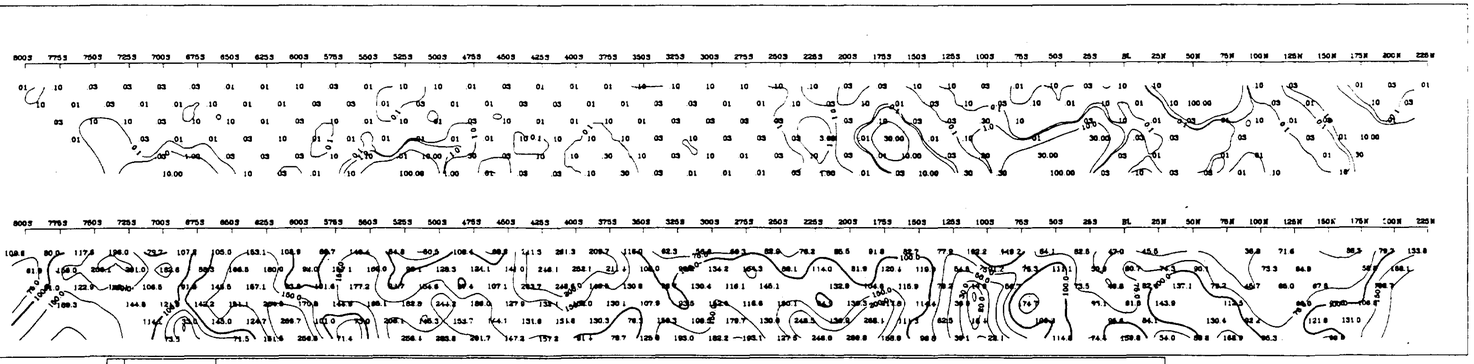
LINE NUMBER: 5100 EAST
"A": 25.0 METRES N=1 TO 6

SCINTREX IPR-11 RECEIVER ARRAY
POLE-DIPOLE
TRAV. DIRECTION: NORTH
SCALE: 1: 2500

TX PULSE TIME: 2.0 SEC
RECEIVE TIME: 2.0 SEC
C1 POSITION: TRAILING

IP TAU (SEC)

IP COLE-COLE "M" (mV/V)



MINGOLD RESOURCES INC.

Kashabowie (Powell Lake) Area

LINE NUMBER: 5700 EAST
"A": 25.0 METRES N=1 TO 6

SCINTREX IPR-11 RECEIVER ARRAY
POLE-DIPOLE
TRAV. DIRECTION: NORTH
SCALE: 1: 2500

TX PULSE TIME: 2.0 SEC
RECEIVE TIME: 2.0 SEC
C1 POSITION: TRAILING

IP TAU (SEC)

IP COLE-COLE "M" (mV/V)

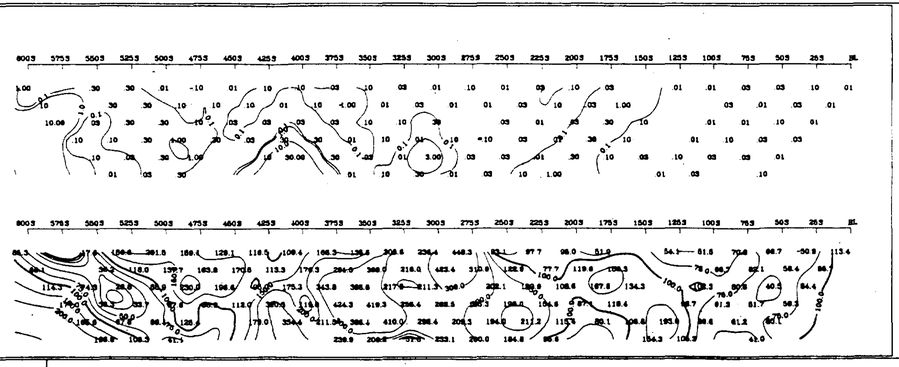


Plate 2

MINGOLD RESOURCES INC.

Kashabowie (Powell Lake) Area

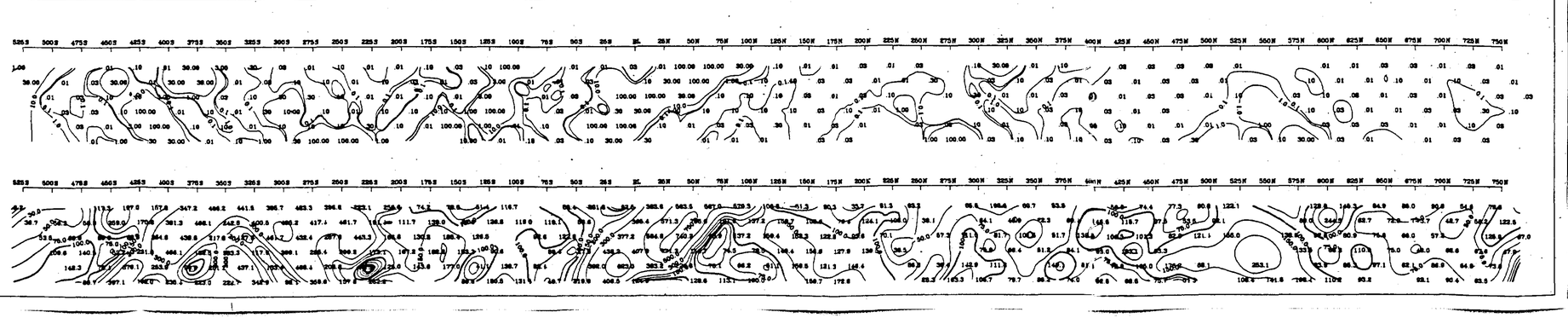
LINE NUMBER: 5800 EAST
"A": 25.0 METRES N=1 TO 6

SCINTREX IPR-11 RECEIVER ARRAY
POLE-DIPOLE
TRAV. DIRECTION: NORTH
SCALE: 1: 2500

TX PULSE TIME: 2.0 SEC
RECEIVE TIME: 2.0 SEC
C1 POSITION: TRAILING

IP TAU (SEC)

IP COLE-COLE "M" (mV/V)



52B07NW0017 2.12924 POWELL LAKE

TILLY LAKE G-562

MOSS TWP
FOR STAPLES REFER TO TWP PLAN

McKENZIE LAKE G-541

NELSON LAKE

SUMMIT LAKE G-563

QUETICO PROVINCIAL PARK

QUETICO RIVER

RAINY RIVER DISTRICT

THUNDER BAY DISTRICT

2.12924

AREAS WITHDRAWN FROM DISPOSITION

S.R. – SURFACE RIGHTS M.R. – MINING RIGHTS

Description	Order No.	Date	Disposition	File

RECEIVED
THUNDER BAY
MINING DIVISION
'90 JAN 29 AM 8 17

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 OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC 63 SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA

POWELL LAKE

M.N.R. ADMINISTRATIVE DISTRICT

ATIKOKAN THUNDER BAY

MINING DIVISION

THUNDER BAY

LAND TITLES / REGISTRY DIVISION

RAINY RIVER THUNDER BAY

Ontario Ministry of Natural Resources — Land Management Branch

DEC 1991

SURVEYED
R. BERGERON
BRUCE HOLMES

NUMBER
G-845

52B07NW0017 2.12924 POWELL LAKE

200

TILLY LAKE G-562

2.12924

expenses

V.L.F.

I.P.

MOSS TWP.

FOR STATUS REFER TO TWP PLAN

9°00' 90°45' 48°30'

McKENZIE LAKE G-541

NELSON LAKE G-745

SAGAMIGAN LAKE G-553

QUETICO PROVINCIAL PARK

RAINY RIVER DISTRICT

THUNDER BAY DISTRICT OF MACKENZIE

Mc Kenzie

Belaire L.

Wawios

Clay L.

Greenwood

Powell Lake

Greenwood Lake

Mack Lake

Greenwood Lake

Ross Lake

Gimmy Lake

Simpkins L.

12M 11M 10M 9M 8M 7M 6M 5M

29 28 27 26 25

AREAS WITHDRAWN FROM DISPOSITION

S.R. – SURFACE RIGHTS M.R. – MINING RIG

Description	Order No.	Date	Disposition	File
(12)	W41/73	31/8/73	S.R. & M.R.	18

AREA WITHIN THE QUETICO PROVINCIAL PARK WITHDRAWN FROM STAKING

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 OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LAND

TYPE OF DOCUMENT	SYM
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE MINING RIGHTS IN PARCELS PATENTED AFTER 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAPTER 380, SECTION 62, S.(3)

SCALE 1 INCH = 40 CHAINS

FEET 1000 500 0 1000

METRES 0 1 KM 2 KM

AREA

POWELL LAKE

M.N.R. ADMINISTRATIVE DISTRICT

ATIKOKAN THUNDER BAY

MINING DIVISION

THUNDER BAY

LAND TITLES / REGISTRY DIVISION

RAINY RIVER THUNDER BAY

52B07NW0017 2.12924 POWELL LAKE

210

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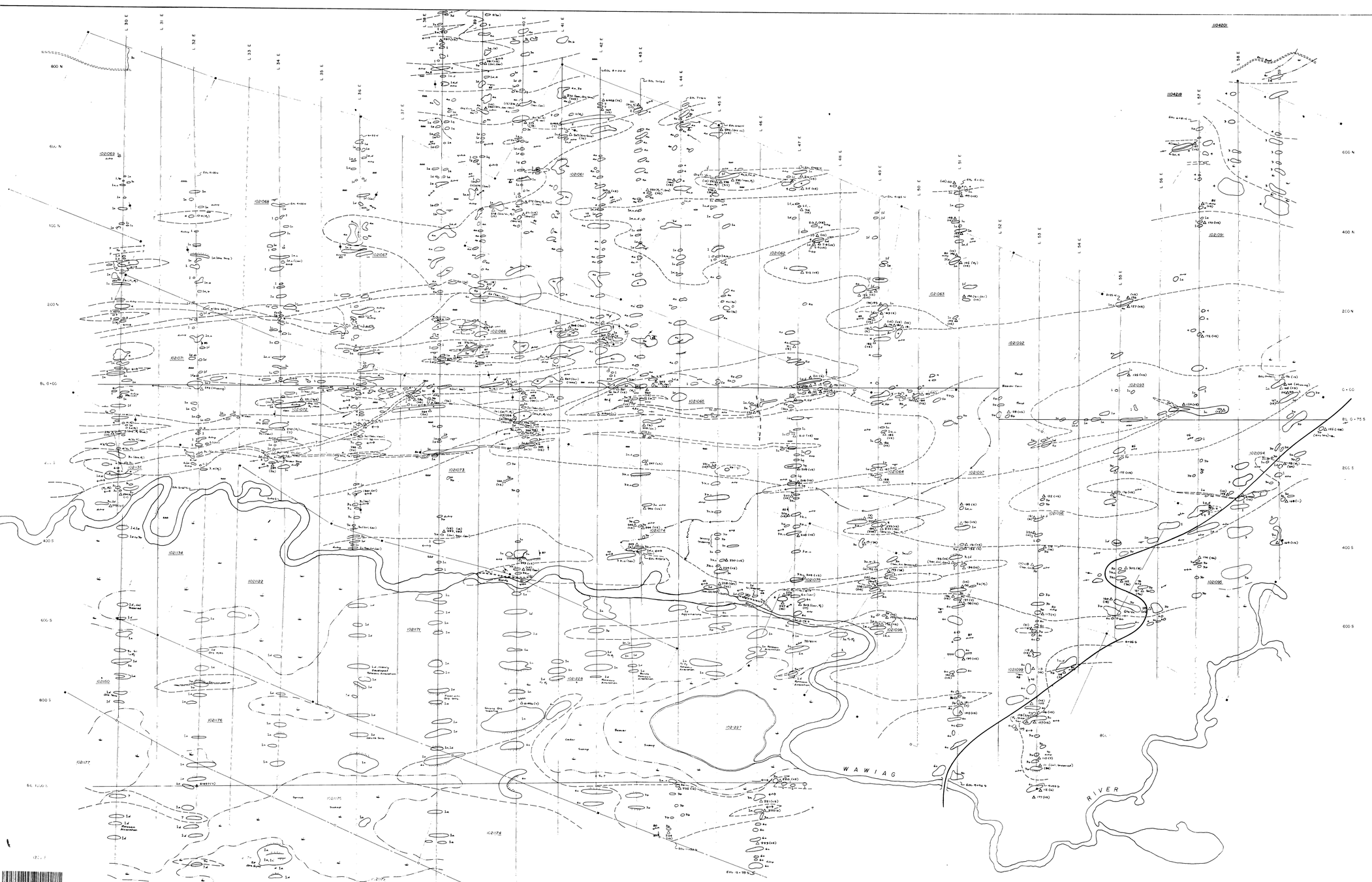
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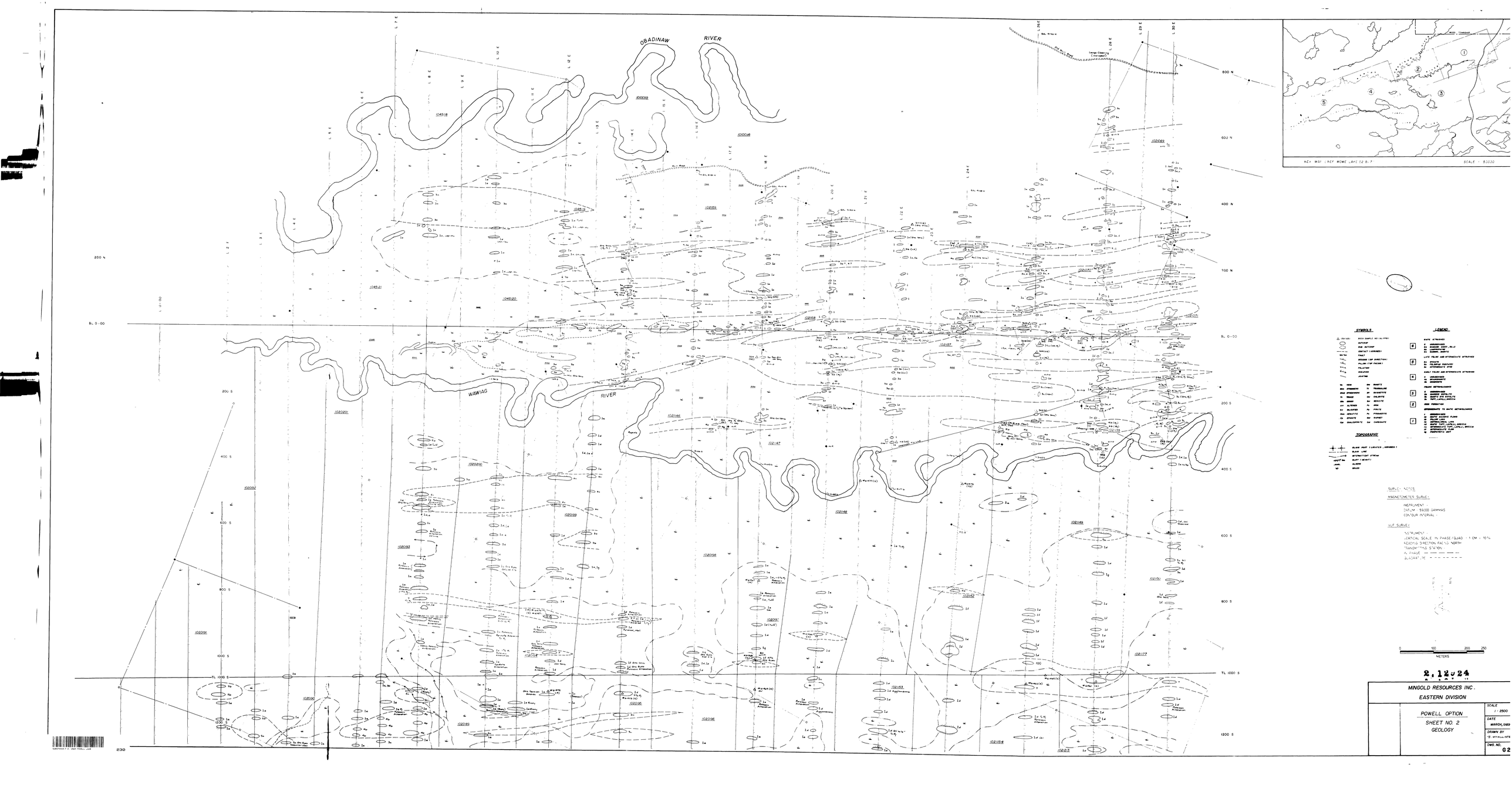
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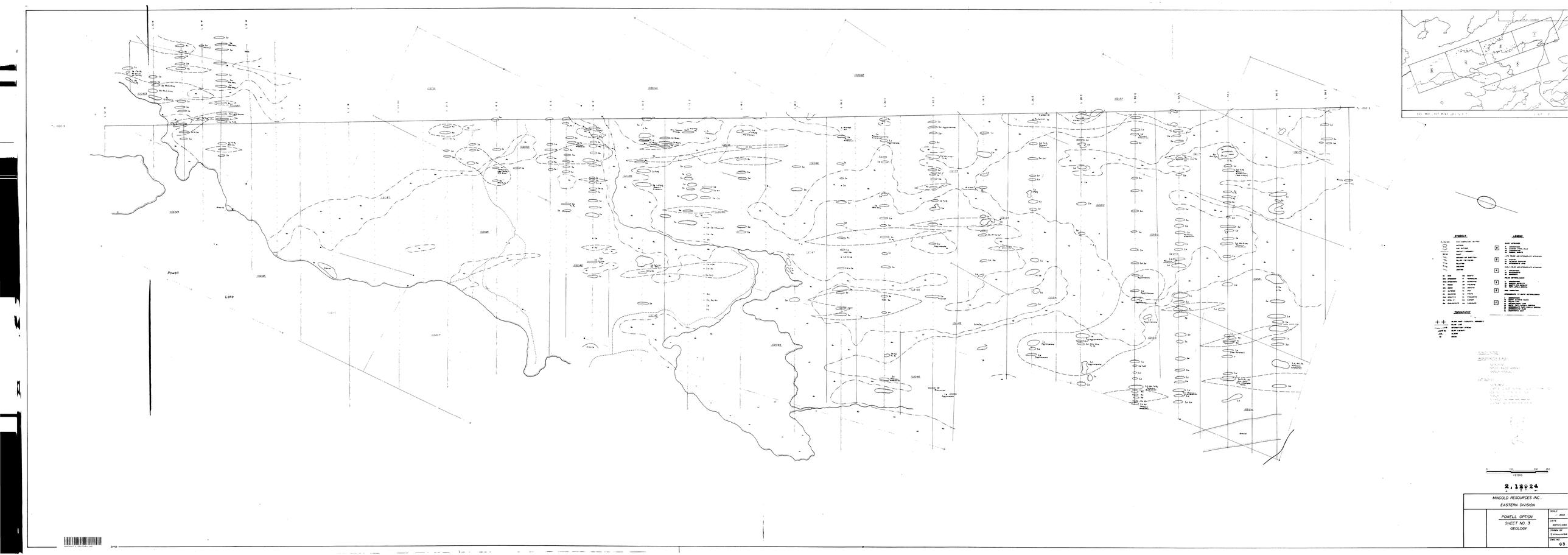
Powell
Lake
SYMBOLS
LEGEND
TOPOGRAPHY
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2,12024
MINGOLD RESOURCES INC.
EASTERN DIVISION
POWELL OPTION
SHEET NO. 3
GEOLOGY
SCALE
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DATE
MARCH, 1989
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WAWIAG RIVER

Clay Lake

Powell Lake

Lake

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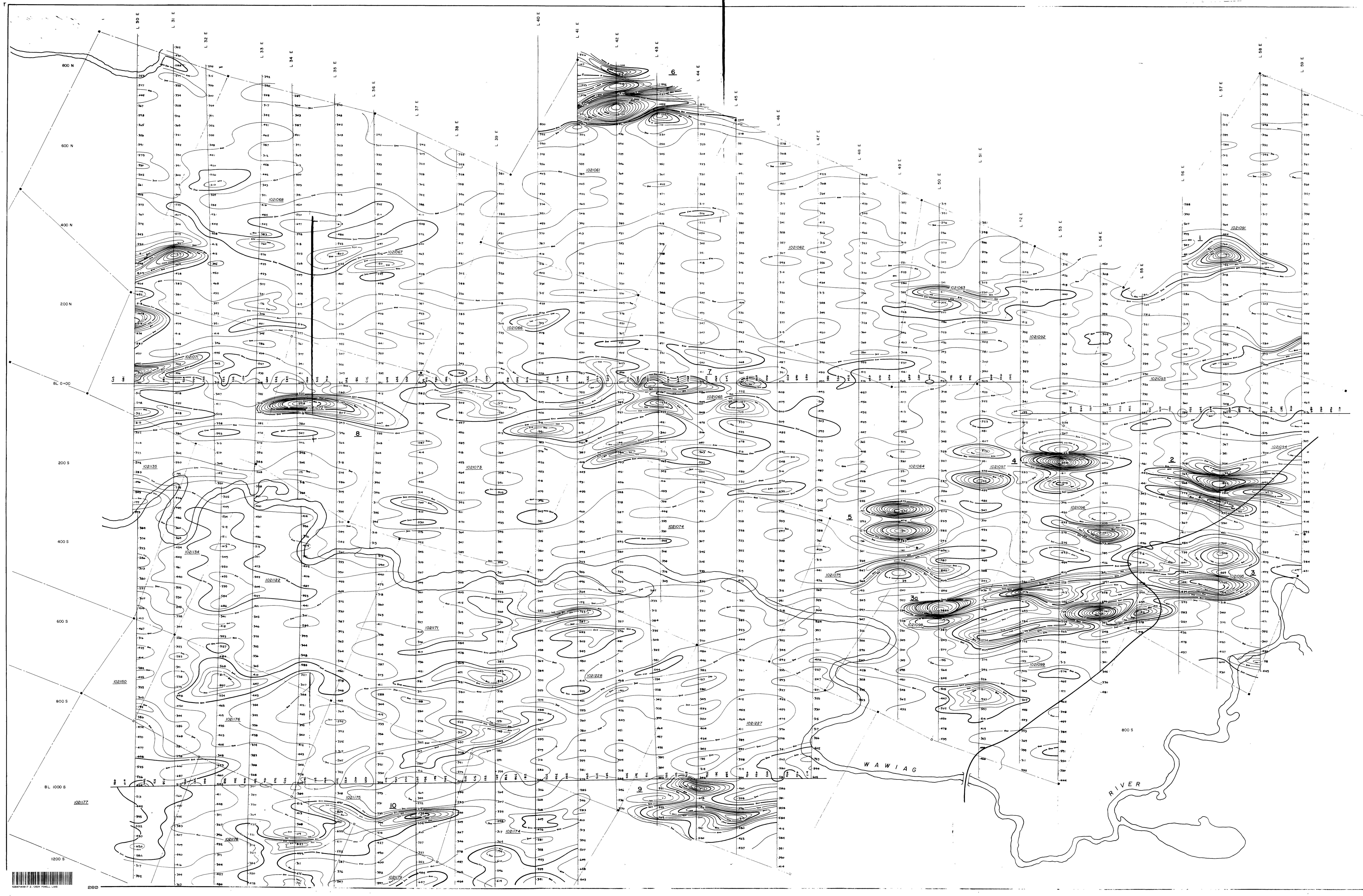

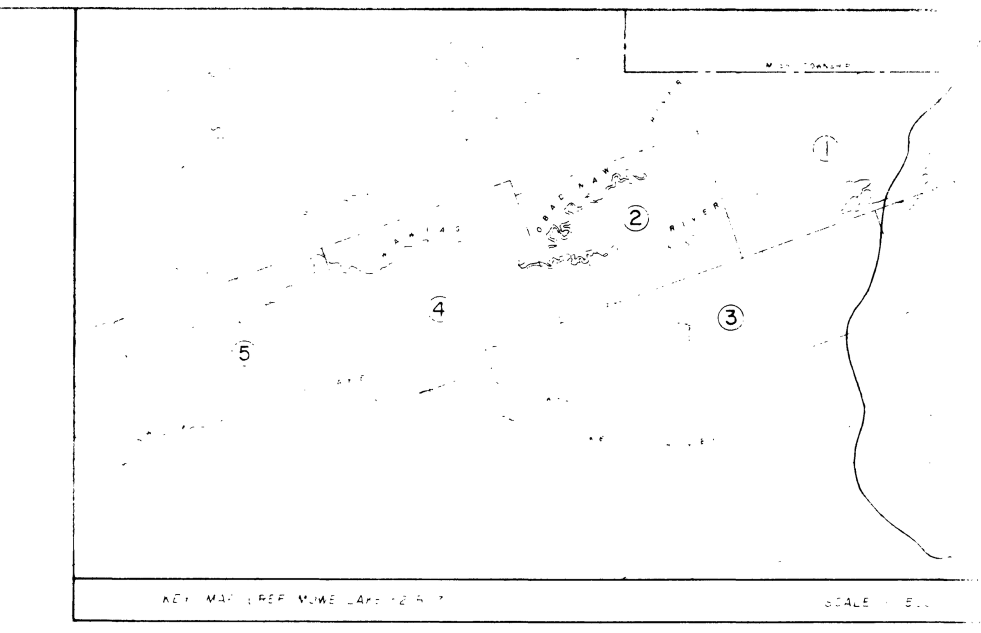

INSTRUMENT GEOMETRICS G-816 PROTON MAG
DATUM 59000 GAMMAS
CONTOUR INTERVAL - 0 TO ±1500 - 100 GAMMAS
ALL OTHERS - 500 GAMMAS

9 MAGNETIC ANOMOLY

0 100 200 250
METERS

2.12924

MINGOLD RESOURCES INC.
EASTERN DIVISION

POWELL OPTION
SHEET NO. I
MAGNETOMETER SURVEY

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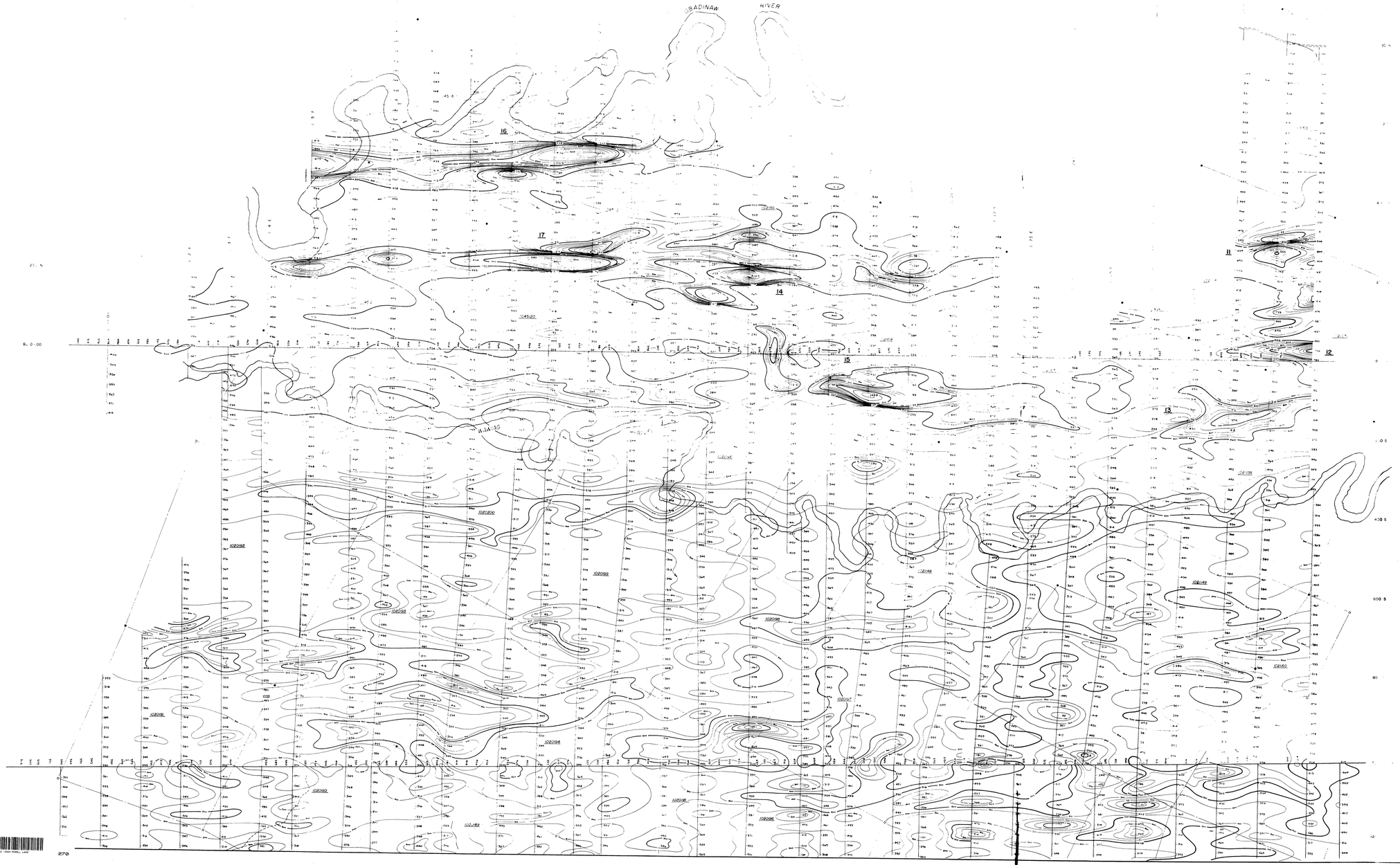


SURVEY NOTES

MAGNETOMETER SURVEY

INSTRUMENT - GEOMETRICS G 815 PROTON MAG
DATUM - 59000 GAMMAS
CONTOUR INTERVAL - 0 TO 1500 - 100 GAMMAS
ALL OTHERS 500 GAMMAS

13 MAGNETIC ANOMOLY

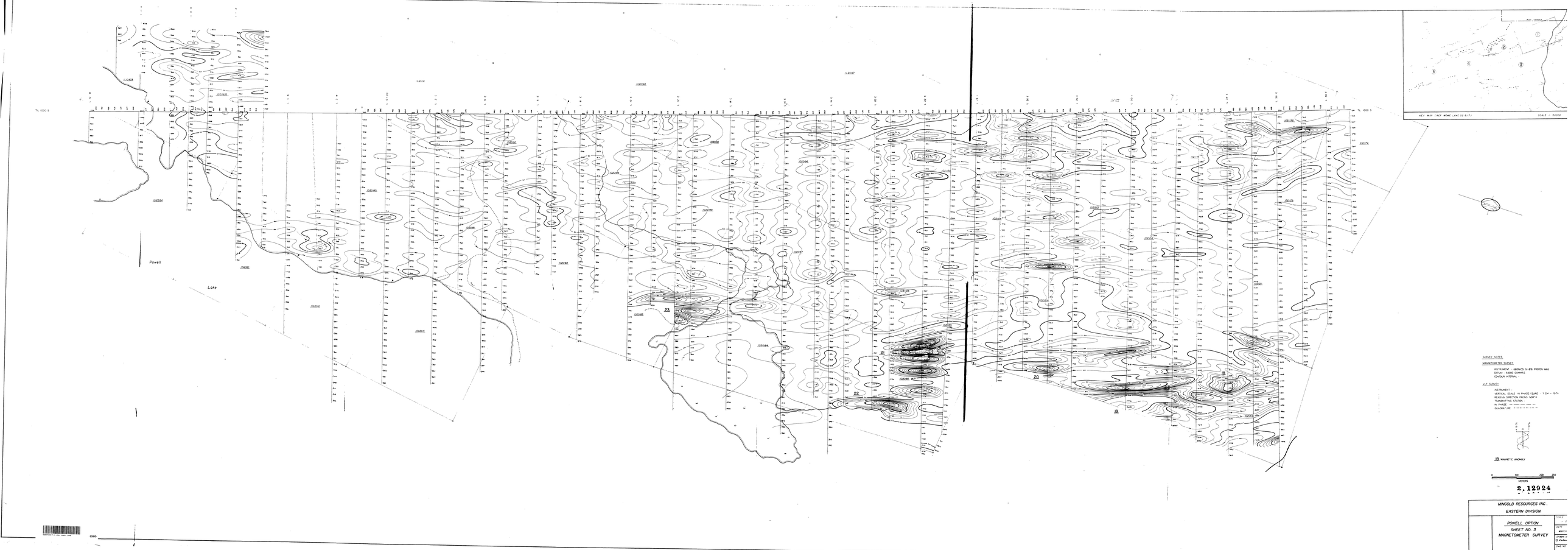
METERS

2.12924

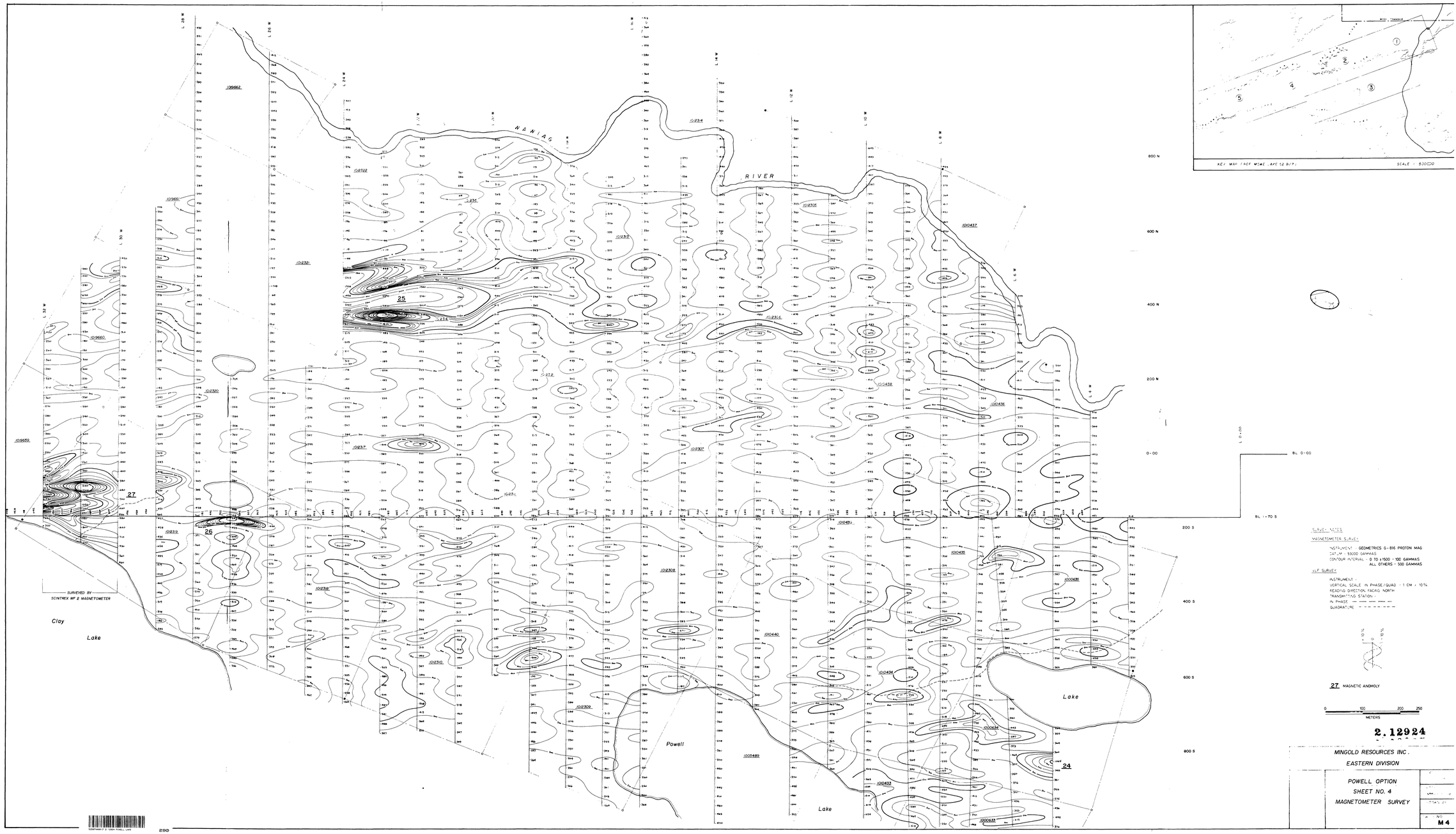
EASTERN DIVISION

POWELL OPTION
SHEET NO. 2
MAGNETOMETER SURVEY

M 2



Powell
Lake
KEY MAP (REF WORK LAKE 52 B/7)
SCALE - 1:50000
SURVEY NOTES
MAGNETOMETER SURVEY
INSTRUMENT - GEOMICS G-816 PROTON MAG
DATUM - 50000 GAMMAS
CONTOUR INTERVAL -
VLF SURVEY
INSTRUMENT -
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION -
IN PHASE
QUADRATURE
MAGNETIC ANOMALY
METERS
2.12924
MINGOLD RESOURCES INC.
EASTERN DIVISION
POWELL OPTION
SHEET NO. 3
MAGNETOMETER SURVEY
SCALE
DATE
DRAWN BY
DRAWING NO



SURVEY NOTES

MAGNETOMETER SURVEY

INSTRUMENT : GEOMETRICS G-816 PROTON MAG
DATUM : 59000 GAMMAS
CONTOUR INTERVAL : 0 TO ±1500 = 100 GAMMAS
ALL OTHERS = 500 GAMMAS

VLF SURVEY

INSTRUMENT :
VERTICAL SCALE IN PHASE/QUAD : 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION :
IN PHASE ——— ——— ———
QUADRATURE - - - - - - - -

27 MAGNETIC ANOMOLY

0 100 200 250
METERS

2.12924

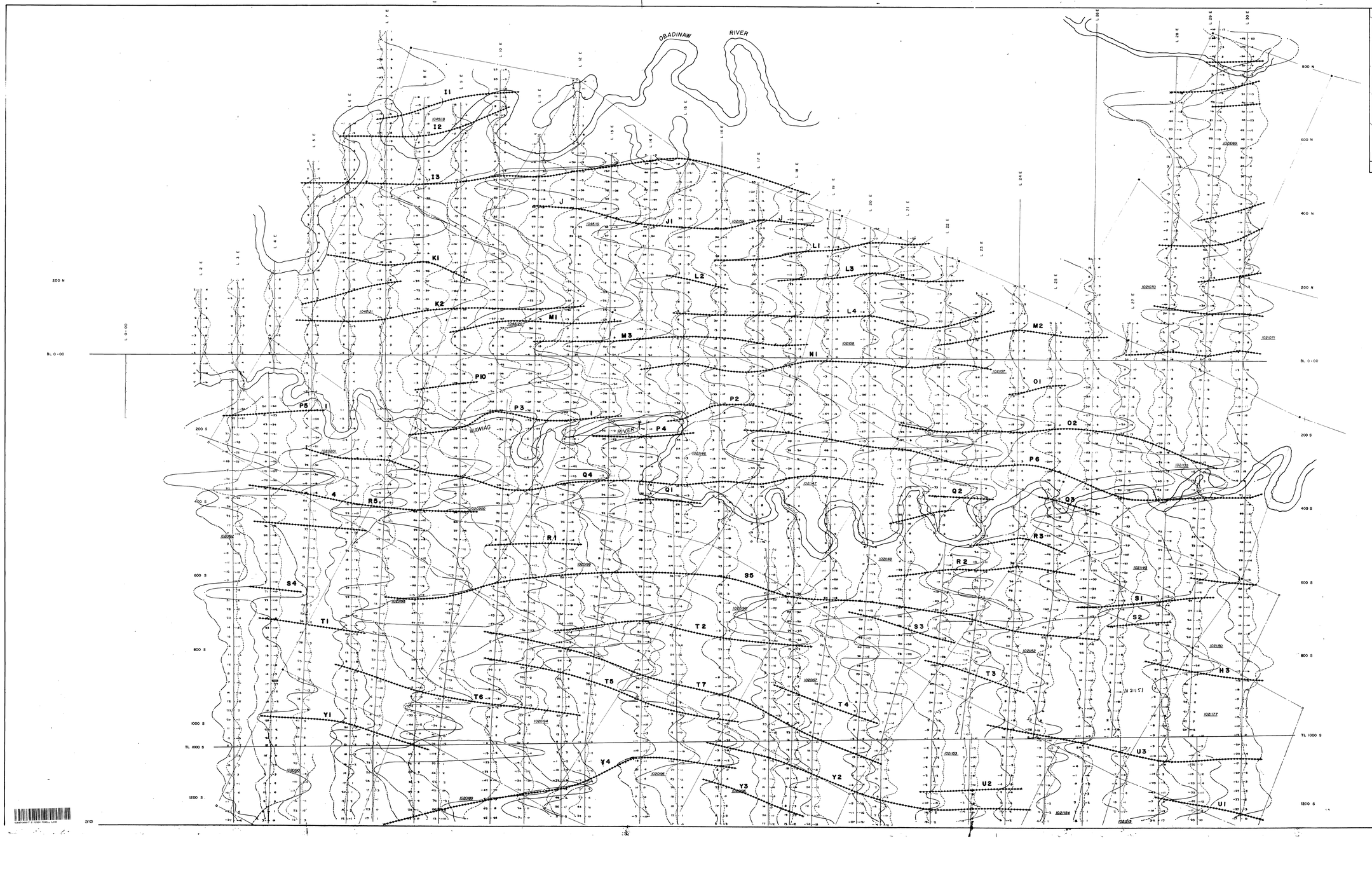
MINGOLD RESOURCES INC.
EASTERN DIVISION

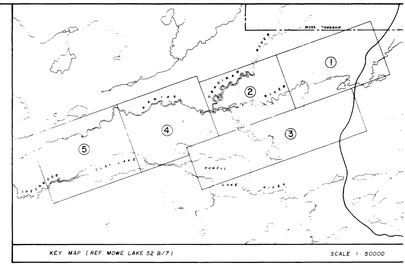
POWELL OPTION
SHEET NO. 4
MAGNETOMETER SURVEY

M4

290

SURVEY NOTES
MAGNETOMETER SURVEY
INSTRUMENT -
DATUM - 59000 GAMMAS
CONTOUR INTERVAL -
VLF SURVEY
INSTRUMENT - GEONICS EM-16
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION - SEATTLE, WASH.
F5 VLF CONDUCTOR
0 100 200 250
METERS
2.12924
EASTERN DIVISION
POWELL OPTION
SHEET NO. 1
VLF SURVEY
SCALE
DATE
DRAWN BY
DWG NO
WAWIAG RIVER
KEY MAP (REF MOWE LAKE 52 B/7)
MOSS TOWNSHIP





SURVEY NOTES

MAGNETOMETER SURVEY

INSTRUMENT -
DATUM - 59000 GAMMAS
CONTOUR INTERVAL -

VLF SURVEY

INSTRUMENT - GEONICS EM-16
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION - SEATTLE, WASH.
IN PHASE
QUADRATURE

+10% 0 -10%

S3 VLF CONDUCTOR

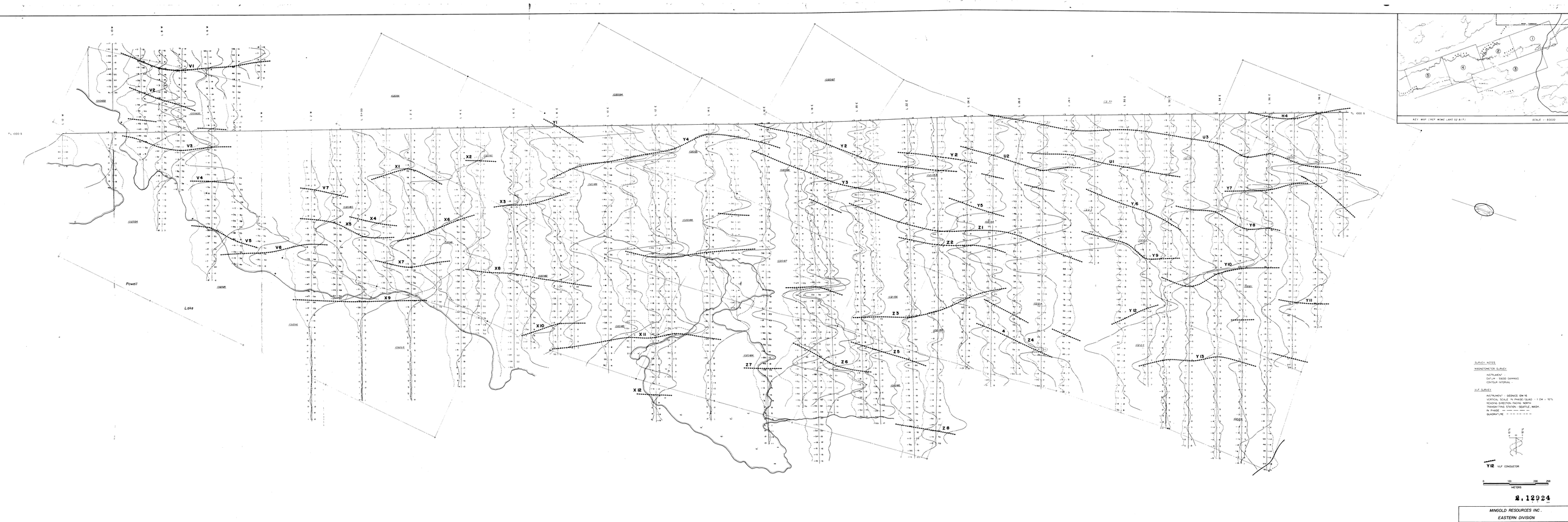
0 100 200 250
METERS

2.12024

MINGOLD RESOURCES INC.
EASTERN DIVISION

POWELL OPTION
SHEET NO. 2
VLF SURVEY

SCALE 1 : 2500
DATE MARCH, 19
DRAWN BY
DWG NO. E



SURVEY NOTES

MAGNETOMETER SURVEY

INSTRUMENT -
DATUM - 50000 GAMMAS
CONTOUR INTERVAL -

VLF SURVEY

INSTRUMENT - GEONICS EM 16
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION - SEATTLE, WASH.
IN PHASE
QUADRATURE

Y12 VLF CONDUCTOR

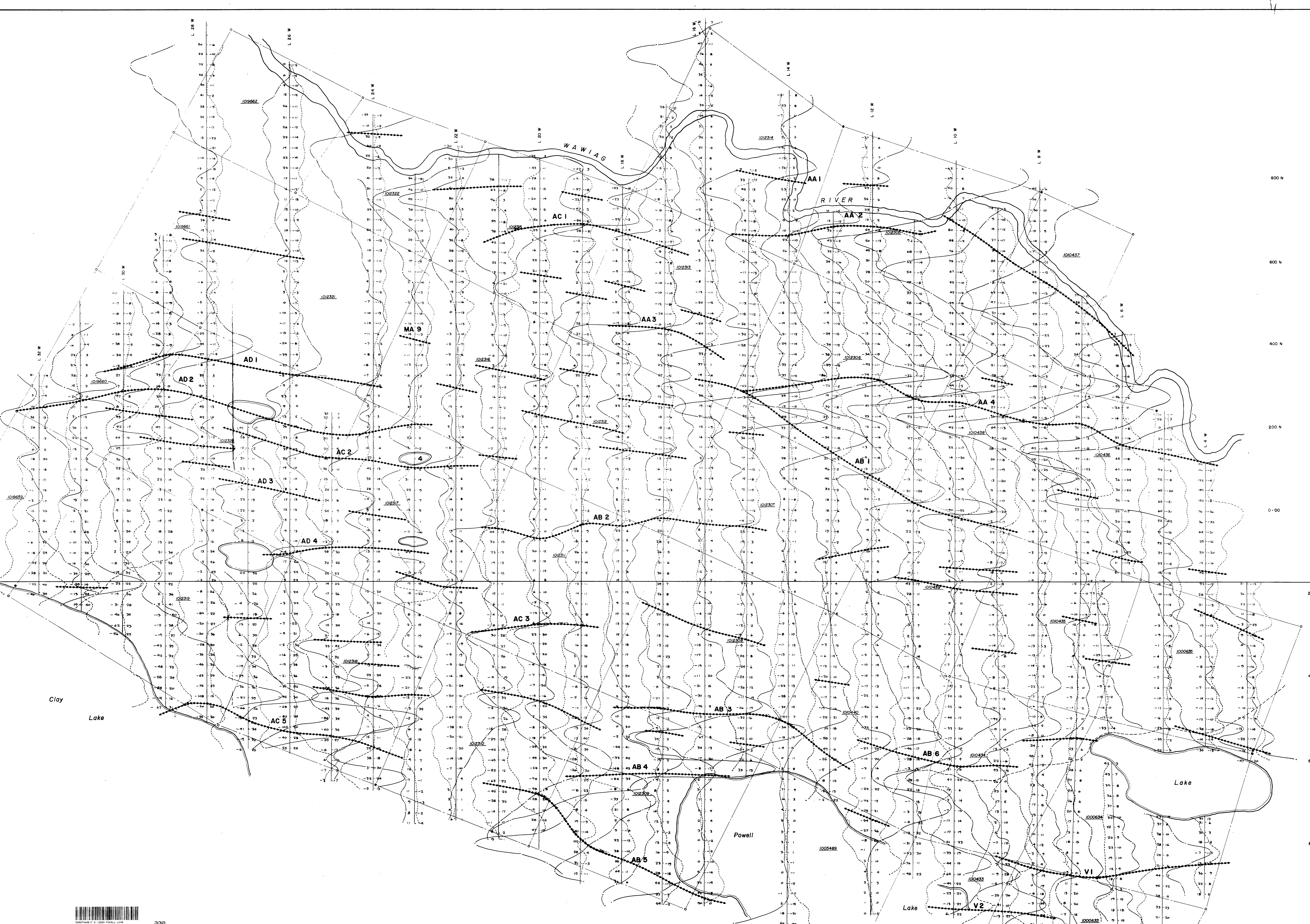
0 100 200 300
METERS

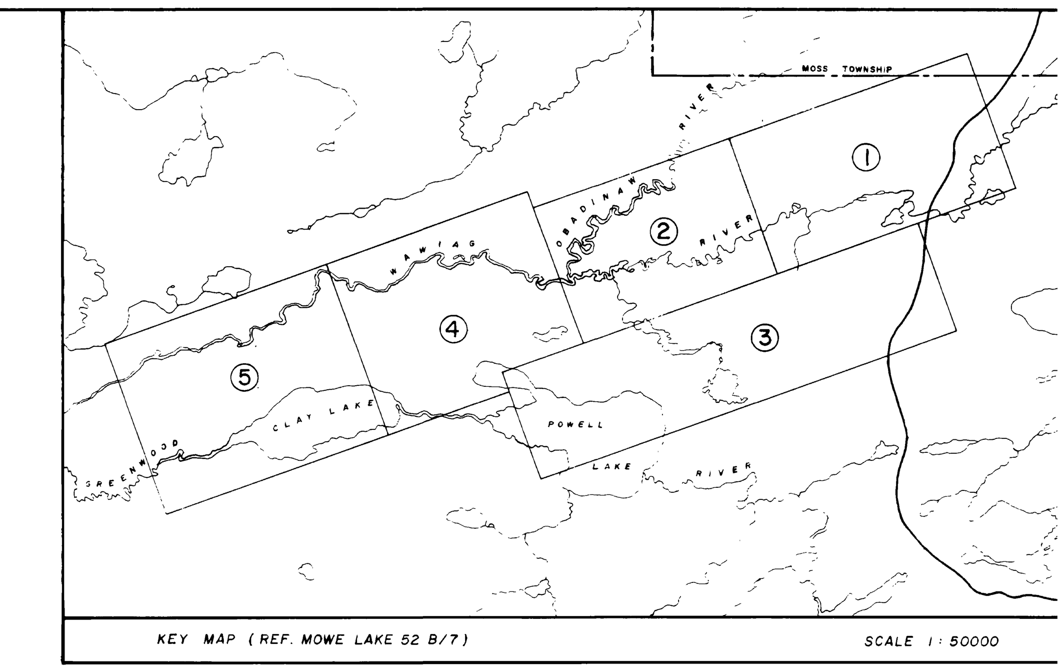
2.12924

MINGOLD RESOURCES INC.
EASTERN DIVISION

POWELL OPTION
SHEET NO. 3
VLF SURVEY

SCALE 1:2500
DATE MARCH 1987
DRAWN BY
DWG NO. E3





SURVEY NOTES

MAGNETOMETER SURVEY

INSTRUMENT -
DATUM - 59000 GAMMAS
CONTOUR INTERVAL -

VLF SURVEY

INSTRUMENT - GEONICS EM 16
VERTICAL SCALE IN PHASE / QUAD - 1 CM = 10 %
READING DIRECTION FACING NORTH
TRANSMITTING STATION - SEATTLE, WASH.
IN PHASE — · — · —
QUADRATURE - · - · - · -

+10 % 0 -10 %

AA 4 VLF CONDUCTOR

0 100 200 250
METERS

2.12924

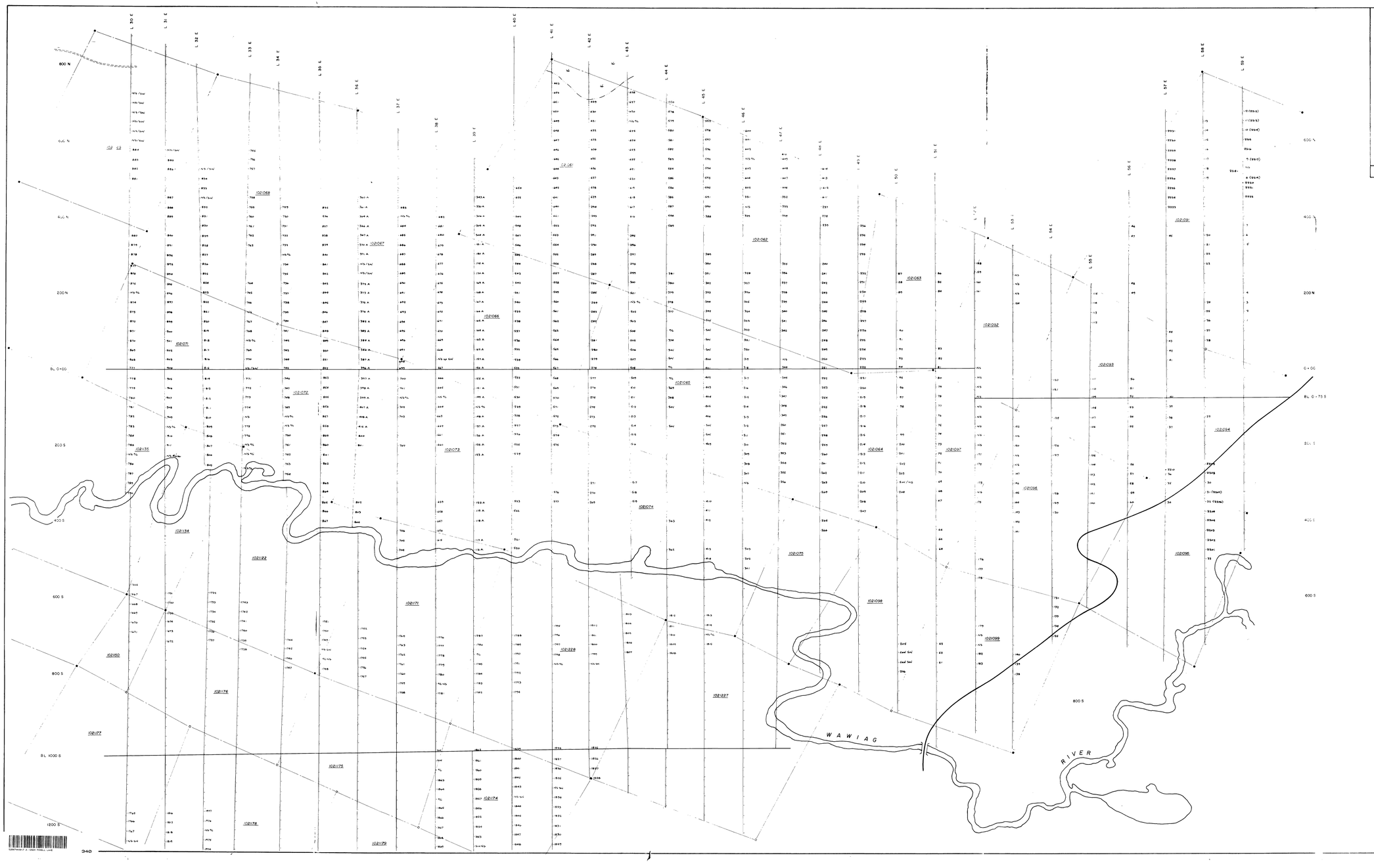
MINGOLD RESOURCES INC.
EASTERN DIVISION

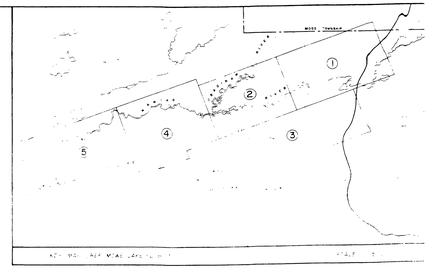
POWELL OPTION
SHEET NO. 4
VLF SURVEY

SCALE 1 : 2500
DATE MARCH, 1985
DRAWN BY J. McALLISTER
DWG NO E 4

52B07NW0017 2.12924 POWELL LAKE

330





MAGNETOMETER SURVEY:

INSTRUMENT -
DATUM - 55000 GAMMAS
CONTOUR INTERVAL -

VLF SURVEY:

INSTRUMENT -
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION -

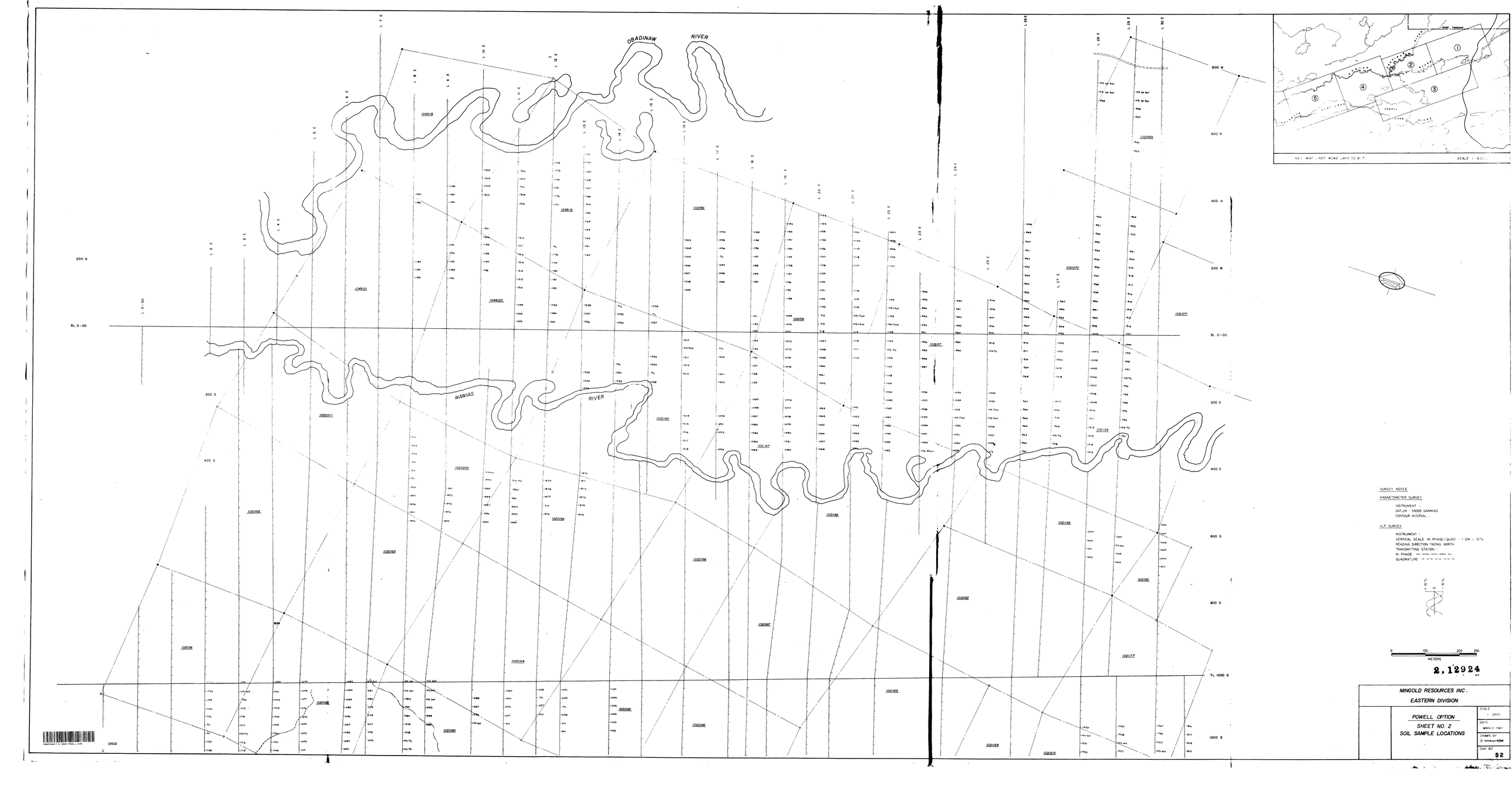
0 100 200 250
METERS

2.19924

MINGOLD RESOURCES INC.
EASTERN DIVISION

POWELL OPTION
SHEET NO. 1
SOIL SAMPLE LOCATIONS

DATE
MAY
PARTS
J. MAHLMEYER
DWG. No.
S1



SURVEY NOTES

MAGNETOMETER SURVEY

INSTRUMENT -
DATUM - 59000 GAMMAS
CONTOUR INTERVAL -

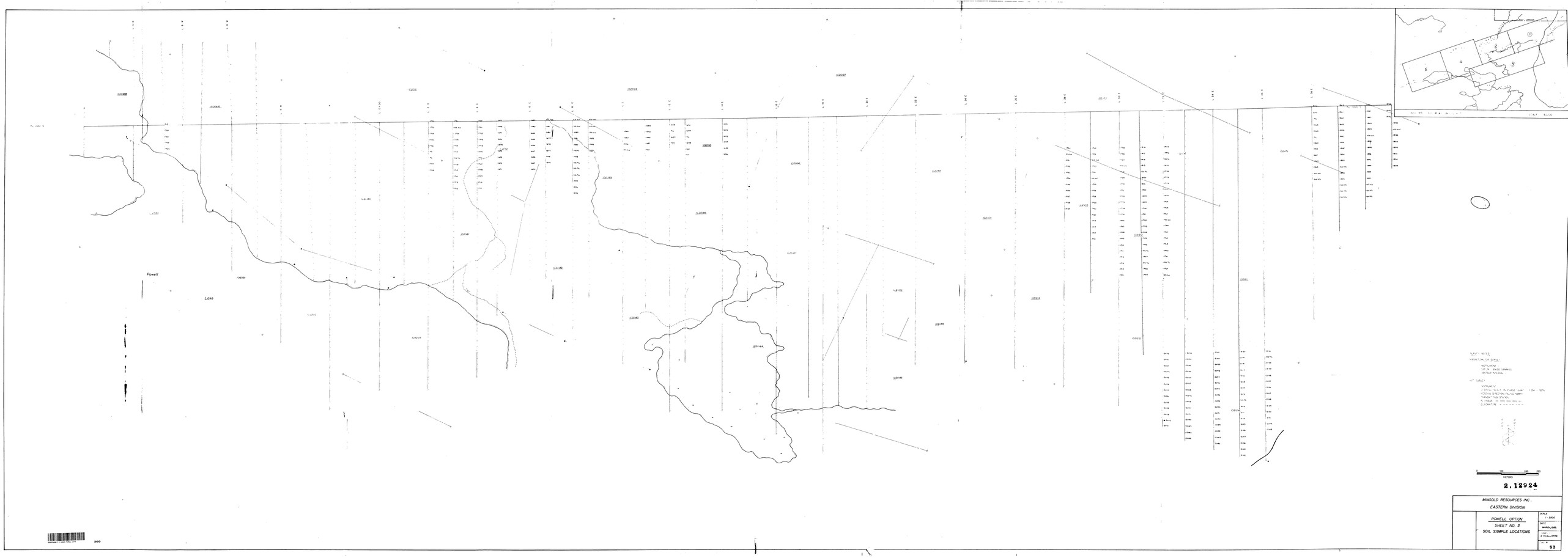
VLF SURVEY

INSTRUMENT -
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10 %
READING DIRECTION FACING NORTH
TRANSMITTING STATION -
IN PHASE
QUADRATURE

0 100 200 250
METERS

2.12924

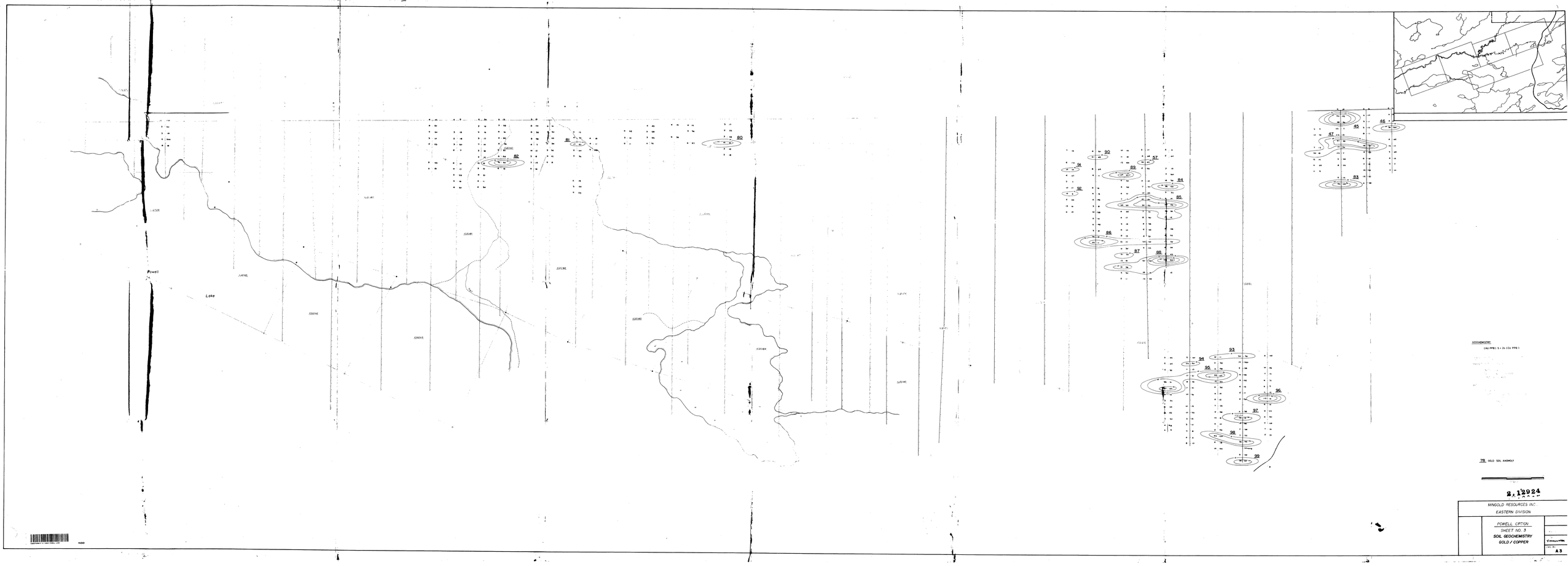
MINGOLD RESOURCES INC.	
EASTERN DIVISION	
POWELL OPTION SHEET NO. 2 SOIL SAMPLE LOCATIONS	SCALE 1 : 2500 DATE MARCH 1984 DRAWN BY DWG NO S2


Powell
Lake
0 100 200 250
METERS
2,12924
MINGOLD RESOURCES INC.
EASTERN DIVISION
POWELL OPTION
SHEET NO. 3
SOIL SAMPLE LOCATIONS
SCALE
1 : 2500
DATE
MARCH, 1989
DRAWN
E. PHILLIPPINE
FILE NO.
S3

WAWIAG
RIVER
Clay
Lake
Powell
Lake
Lake
L 28 W
L 26 W
L 24 W
L 22 W
L 20 W
L 18 W
L 16 W
L 14 W
L 12 W
L 10 W
L 8 W
L 6 W
L 4 W
800 N
600 N
400 N
200 N
0+00
200 S
400 S
600 S
800 S
BL 0+00
BL 1+70 S
L 0+00
KEY MAP (REF. MOWE LAKE 52 B/7)
SCALE 1:50000
SURVEY NOTES
MAGNETOMETER SURVEY
INSTRUMENT -
DATUM - 59000 GAMMAS
CONTOUR INTERVAL -
VLF SURVEY
INSTRUMENT -
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION -
IN PHASE
QUADRATURE
0 100 200 250
METERS
2.12924
MINGOLD RESOURCES INC.
EASTERN DIVISION
POWELL OPTION
SHEET NO. 4
SOIL SAMPLE LOCATIONS
DWG NO
S4

KEY MAP (REF MOWE LAKE 42 B 7)
MOSS TOWNSHIP
WAWIAG RIVER
GEOCHEMISTRY
(PPB AU) 5 • 24 (PPB CU)
29 GOLD SOIL ANOMOLY
MAGNETOMETER SURVEY
INSTRUMENT -
DATUM - 59000 GAMMAS
CONTOUR INTERVAL -
VLF SURVEY
INSTRUMENT -
VERTICAL SCALE IN PHASE / QUAD - 1 CM = 10 %
READING DIRECTION FACING NORTH
TRANSMITTING STATION -
IN PHASE
QUADRATURE
0 100 200 250
METERS
2.12924
MINGOLD RESOURCES INC.
EASTERN DIVISION
POWELL OPTION
SHEET NO. 1
SOIL GEOCHEMISTRY
GOLD / COPPER
SCALE 1 : 2500
DATE
DRAWN BY J McALLISTER
DWG NO A1
52B07NW0017 2.12924 POWELL LAKE
380

OBADINAW RIVER
WAWIAG RIVER
200 N
BL 0+00
200 S
400 S
TL 1000 S
1200 S
L 0+00
L 2 E
L 3 E
L 4 E
L 5 E
L 6 E
L 7 E
L 8 E
L 9 E
L 10 E
L 12 E
L 14 E
L 17 E
L 20 E
L 21 E
L 22 E
L 23 E
L 25 E
L 26 E
L 27 E
L 29 E
1045118
1045119
1045120
1045121
1021159
1021158
1021146
1021147
1021148
1021149
1021135
1021153
1021154
1021213
1020200
1020201
1020199
1020198
1020192
1020193
1020191
1020194
1020190
1020189
1020195
1020196
GEOCHEMISTRY
(PPB AU) 5 • 24 (PPB CU)
SURVEY NOTES
MAGNETOMETER SURVEY
57 GOLD SOIL ANOMOLY
2.12924
MINGOLD RESOURCES INC.
EASTERN DIVISION
POWELL OPTION
SHEET NO. 2
SOIL GEOCHEMISTRY
GOLD / COPPER
SCALE 1 : 2500
DATE MARCH, 1989
DRAWN BY J. McALLISTER
DWG. NO. A2
52B07NW0017 2.12924 POWELL LAKE
390

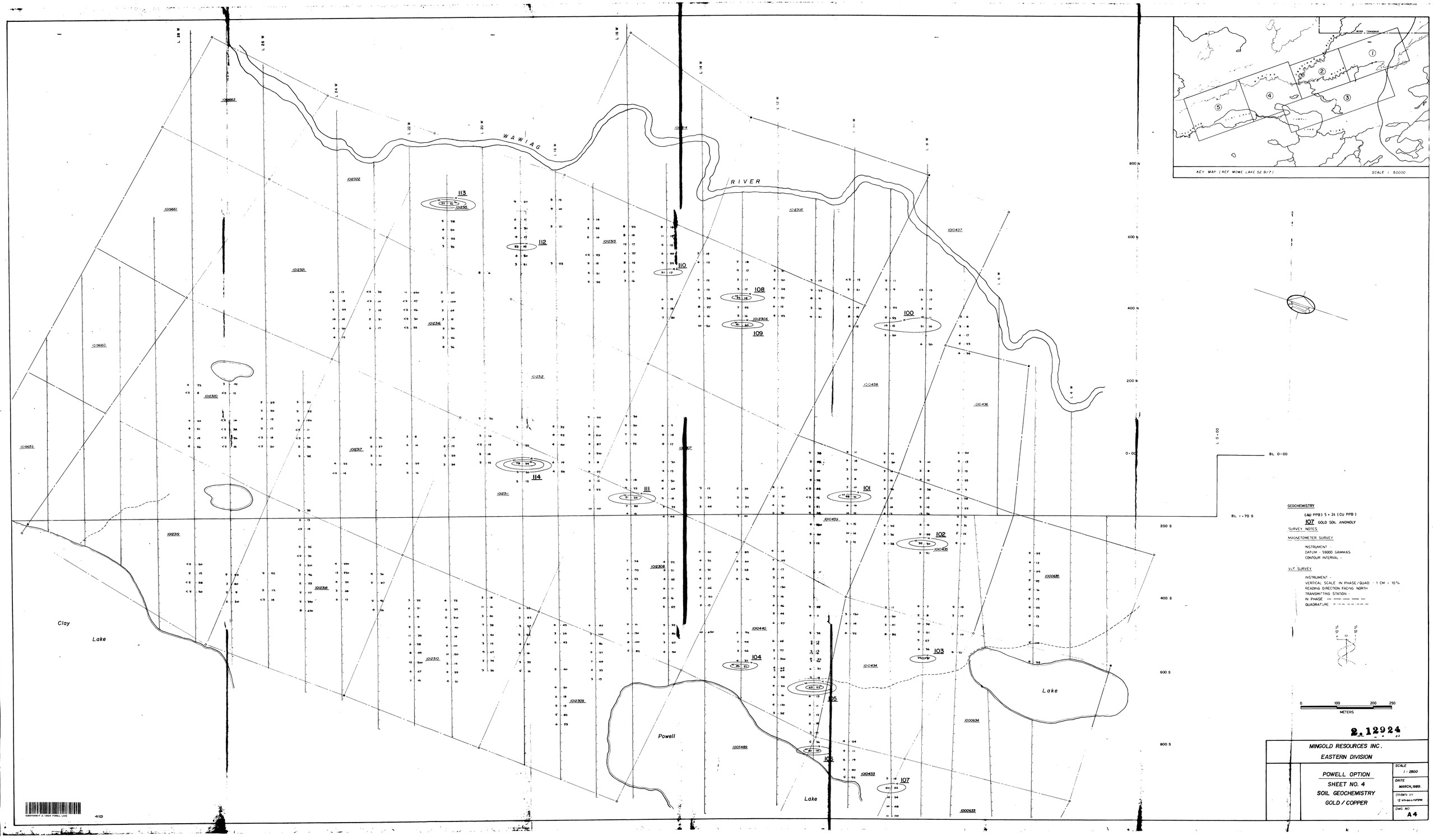


2,12924

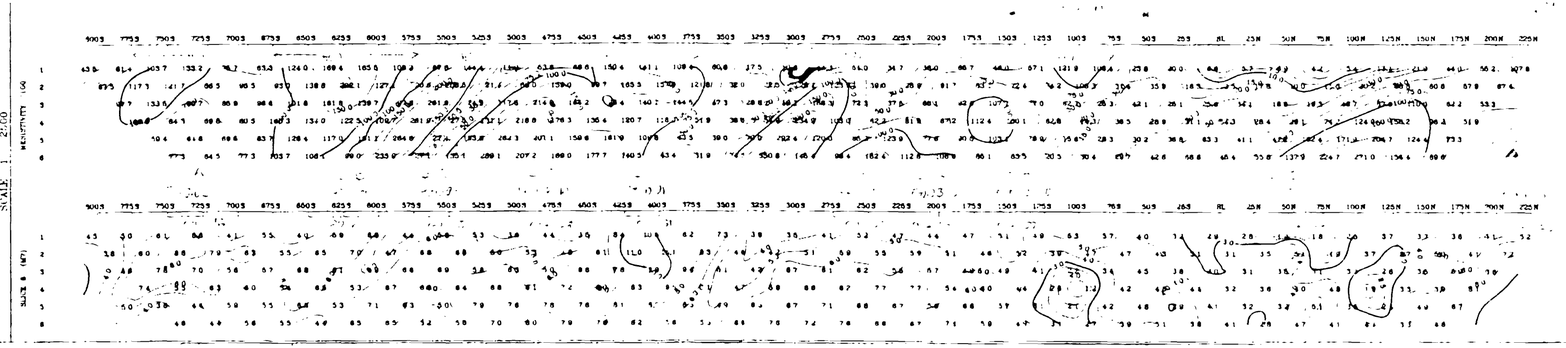
MINGOLD RESOURCES INC.
EASTERN DIVISION

POWELL OPTION
SHEET NO. 3
SOIL GEOCHEMISTRY
GOLD / COPPER

A3


WAWIAG
RIVER
Clay
Lake
Powell
Lake
Lake
KEY MAP (REF MOWE LAKE 52 B/7)
SCALE 1 50000
GEOCHEMISTRY
(AU PPB) 5 + 24 (CU PPB)
107 GOLD SOIL ANOMOLY
SURVEY NOTES
MAGNETOMETER SURVEY
INSTRUMENT -
DATUM - 59000 GAMMAS
CONTOUR INTERVAL -
VLF SURVEY
INSTRUMENT -
VERTICAL SCALE IN PHASE/QUAD - 1 CM = 10%
READING DIRECTION FACING NORTH
TRANSMITTING STATION -
IN PHASE
QUADRATURE
METERS
2.12924
MINGOLD RESOURCES INC.
EASTERN DIVISION
POWELL OPTION
SHEET NO. 4
SOIL GEOCHEMISTRY
GOLD / COPPER
SCALE
1 : 2500
DATE
MARCH, 1989.
DRAWN BY
DWG NO
A4

MINGOLD RESOURCES INC.
Kashabowie (Powell Lake) Area
LINE NUMBER 5100 EAST N-1 TO 6
"A" 25.0 METRES
SCINTREX IPR-11 RECEIVER TX PULSE TIME 2.0 SEC
POLE-DIPOLE ARRAY RECEIVE TIME 2.0 SEC
TRAV DIRECTION NORTH C1 POSITION TRAILING
SCALE 1 2500



MINGOLD RESOURCES INC.
Kashabowie (Powell Lake) Area
LINE NUMBER 5700 EAST N-1 TO 6
"A" 25.0 METRES
SCINTREX IPR-11 RECEIVER TX PULSE TIME 2.0 SEC
POLE-DIPOLE ARRAY RECEIVE TIME 2.0 SEC
TRAV DIRECTION NORTH C1 POSITION TRAILING
SCALE 1 2500

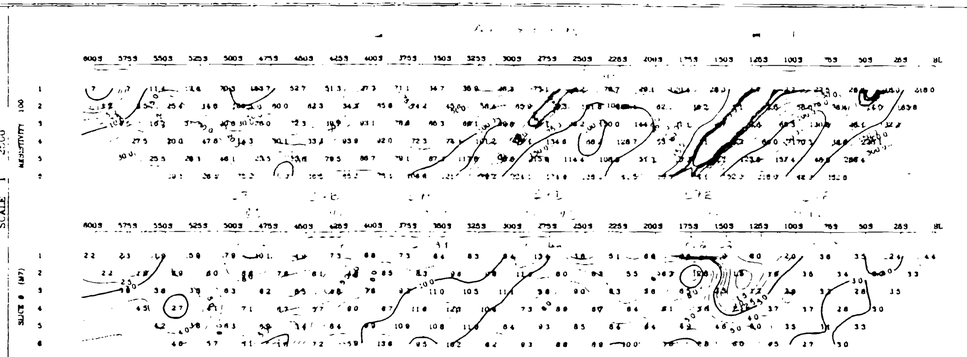
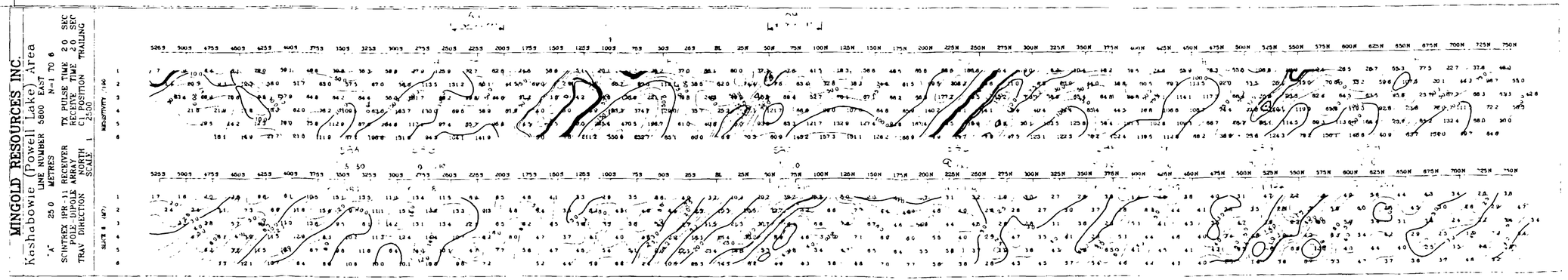


Plate 1

MINGOLD RESOURCES INC.
Kashabowie (Powell Lake) Area
LINE NUMBER 5800 EAST N-1 TO 6
"A" 25.0 METRES
SCINTREX IPR-11 RECEIVER TX PULSE TIME 2.0 SEC
POLE-DIPOLE ARRAY RECEIVE TIME 2.0 SEC
TRAV DIRECTION NORTH C1 POSITION TRAILING
SCALE 1 2500



52U8/NW0017 2.12924 POWELL LAKE