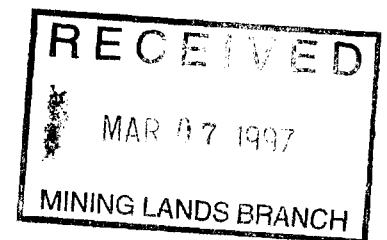


SUMMARY REPORT
OF THE
MATARROW PROPERTY
IN
YARROW TOWNSHIP

FOR
OPAWICA EXPLORATIONS INC

2.17169



by

B.J. MCKAY, M.SC.(A.), F.G.A.C.



41P15NE0020 2.17169 YARROW

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KIRKLAND LAKE, ONTARIO

10 DECEMBER 1996

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SUMMARY

This report presents the results of a program of field investigations and data compilation conducted on the Matarow Property which was optioned by Opawica Explorations in the summer of 1996.

The property produced approximately 40,000 tons of ore averaging 6.13% lead-zinc during a brief period of production in 1952/53.

The recent exploration activity, conducted in 1996, consisted of linecutting, trenching, magnetics, IP and diamond drilling. Trenching was able to reach bedrock on only two of six trenches attempted. Results were discouraging. Geophysics was successful in outlining the known mineralization and identifying numerous other targets. Diamond drilling outlined a Pb-Zn geochemical anomaly approximately 600 meters in length in sulphide interflow sediments/iron formation. The anomaly appears to increase with depth. A single deep hole beneath the existing workings is believed to have intersected two zones that were mined. The "South Vein" returned a value of 9.57% Pb and 2.78% Zn over 1.0 meters and the "North Vein" returned 2.29% Pb and 0.87% Zn over 1.1 meters.

INTRODUCTION

This report prepared at the request of management of Opawica Explorations Inc. presents information from a recent program of data compilation and field exploration.

The data compilation was initiated concurrently with linecutting and geophysical surveys and was subsequently used to assist in locating diamond drill holes. A limited program of trenching did not reveal any significant mineralization. A program of six diamond drill holes totalling 1,077.6 meters was completed in September and October. The drilling intersected sulphide rich cherty-magnetite sediments with significant geochemical and economic values. The best results were obtained from a hole drilled beneath the underground workings.

Recommendations, including mapping and drilling, have been suggested to further evaluate the potential of the property.

LOCATION AND ACCESS

The northeast corner of Yarrow Township is located 1 km southwest of the town of Matachewan. The property is located in the north central portion of the Township. Matachewan is located approximately 60 km southwest of Kirkland Lake. See Figure 1.

Matachewan is accessible via provincial Highway 66. Access to the property is



OPAWICA EXPLORATIONS INC

PROPERTY LOCATION MAP

Fig. 1

via gravel road which branches southwest from Highway 566, 2 km west of Matachewan. The property, approximately 8 km southwest of Matachewan, is south of the Matachewan Consolidated Mines Limited property owned by Royal Oak Mines Inc.

TOPOGRAPHY AND VEGETATION

Topography in the area has little relief and rarely exceeds 200 m. The base elevation in the area is 356 m above sea level. The most prominent exposures in Yarrow Township are felsic plutonic rocks. The main iron formation (IF) on the property forms a topographic high. The West Montreal River flows northeastward through Yarrow Township and broadens to form Mistinikon Lake.

Vegetation on the property consists mostly of spruce and birch. Swampy areas occur in southern and northern portions of the property.

CLAIM STATUS

The property consists of 14 unpatented claims totalling approximately 384 hectares. The claim numbers are: 446423 to 446425, 494579, 494581, 1206080 and 1206093 to 1206100. The claims, optioned from Fred Kiernicki of Kirkland Lake, are in good standing. Refer to Figure 2.

GENERAL GEOLOGY

The Yarrow Township area lies along the northwestern margin of the Cobalt Embayment of the Southern Structural Province in the Canadian Shield. The oldest rocks in the area are Late Archean mafic to felsic flows and tuffs of the Larder Lake Group and of the Upper Deloro Group; the latter has been dated at 2275 +/- Ma. The Larder Lake Group is associated with Late Archean metasedimentary rocks of the Porcupine Group which consist of diamictite, banded chert-magnetite iron formation and lithic wacke. The metavolcanic and metasedimentary rocks strike to the northeast and dip steeply to the southeast. They have been intruded by felsic plutonic rocks of the Round Lake batholith, which range in composition from granodiorite to granite. The felsic plutonic rocks range from massive to gneissic in texture and locally are highly deformed and mylonitized. All of these rocks have been intruded by diabase dikes of the Late Archean Matachewan swarm, which has been dated at 2633 +/- 93 Ma by Rb-Sr methods.

The Late Archean rocks are unconformably overlain by sedimentary rocks of the Early Proterozoic Gowganda Formation, which has been dated at 2240 +/- 174 Ma by Rb-Sr methods. This is probably a minimum age of this unit. In the Cobalt

Embayment, the Gowganda Formation consists of the lower, glaciogenic, Coleman Member and the conformably overlying fluvial-deltaic Firstbrook Member. Only rocks equivalent to the Coleman Member occur in the area of Yarrow Township; these consist of a heterogenous assemblage of diamictite (polymictic paraconglomerate), sandstone, siltstone and laminated mudstone with dropstones. Strata of the Gowganda Formation dip gently to the southeast.

Nipissing intrusive rocks, which have been dated at 2219 +/- 4 Ma, intrude both the Late Archean and Early Proterozoic rocks. In the map area, Nipissing intrusive rocks are represented by a few small outcrops of fine- to coarse-grained, locally pegmatitic diabase.

PROPERTY GEOLOGY

The property geology consists of a sequence of massive Late Archean intermediate to felsic metavolcanics intruded by Late Archean gneissic and foliated hornblende granodiorites. This major intrusive contact strikes northeasterly parallel to the bedding/foliation of the metavolcanics. A narrow, approximately 60 m wide, unit of banded, magnetite-chert iron formation occurs within (400 m) and subparallel to the major contact. This unit hosts the mineralization developed by Matarrow Mine Limited in 1952.

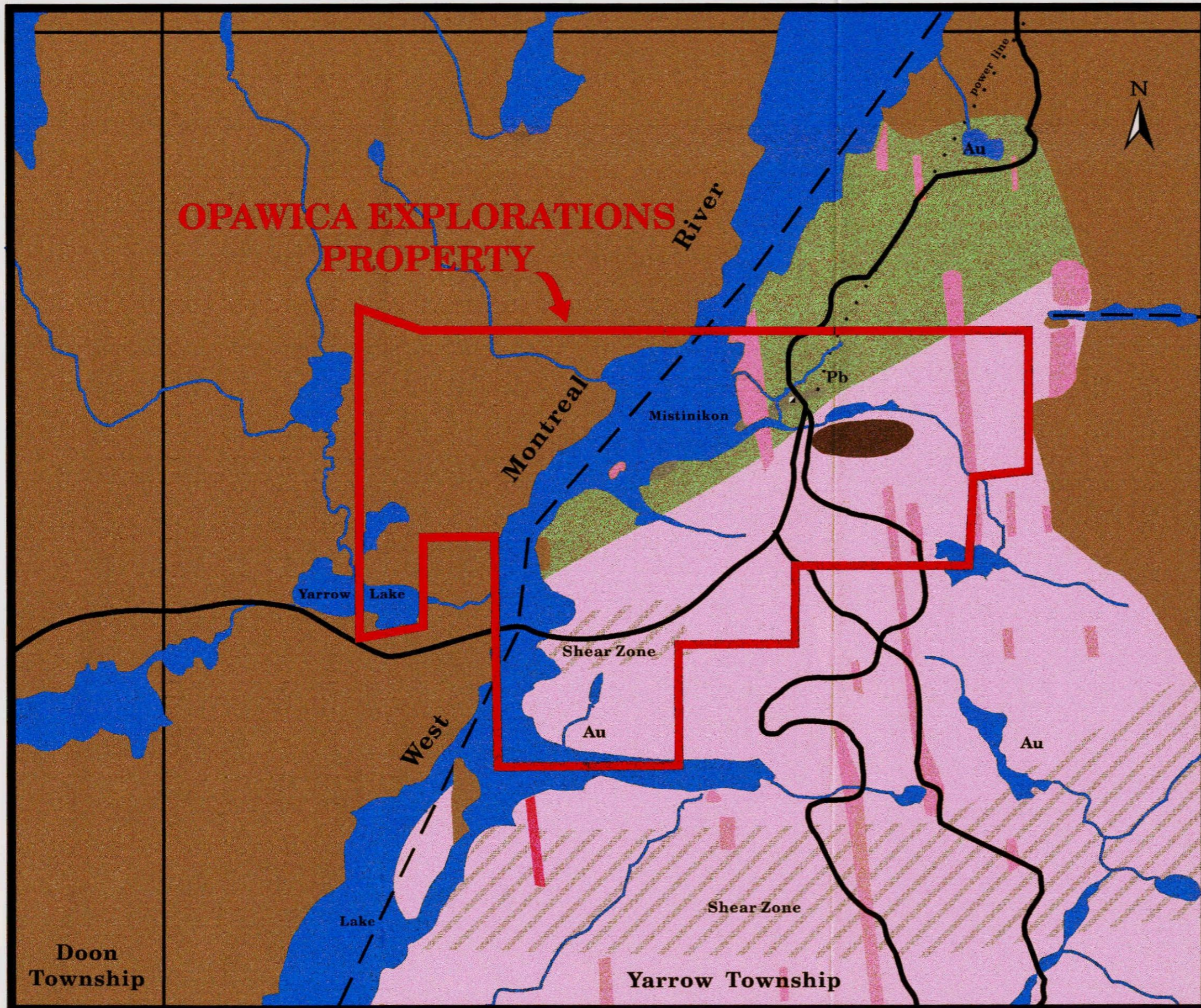
The metavolcanics are reddish brown on both weathered and fresh surfaces, are typically massive and aphanitic, and exhibit a northeast striking, southeast dipping foliation. Alteration consists of epidote, actinolite and chlorite. Carbonatized and silicified portions occur locally. The banded chert-magnetite iron formation, tightly folded, finely bedded, alternating layers of silica and magnetite, in the centre of the property is interbedded with metavolcanics. The unit is exposed for approximately 1 km, strikes northeasterly and dips steeply to the southeast.

The northwest corner of the property is overlain by Early Proterozoic diamictite and lithic arkosic to feldspathic wacke of the Cobalt Group.

The volcanics and intrusives are in turn intruded by numerous north-northwest striking Matachewan diabase dykes. A 500 x 200 m body of fine to coarse-grained Nipissing diabase occurs in the northeast corner of the property. Refer to Figure 3.

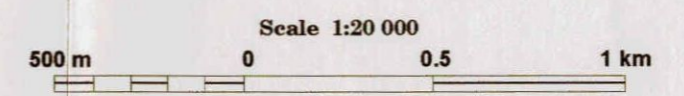
PREVIOUS WORK

Regionally, the first geological investigations in the vicinity were conducted by Bell in 1876. Bell described the geology along the shore of the Montreal and West Montreal rivers. Burwash mapped along the Nipissing-Algoma survey line west of the project area in 1896. The southern half of Yarrow Township was mapped by Collins in 1913. Following the discovery of gold in Powell Township in 1913 Burrows



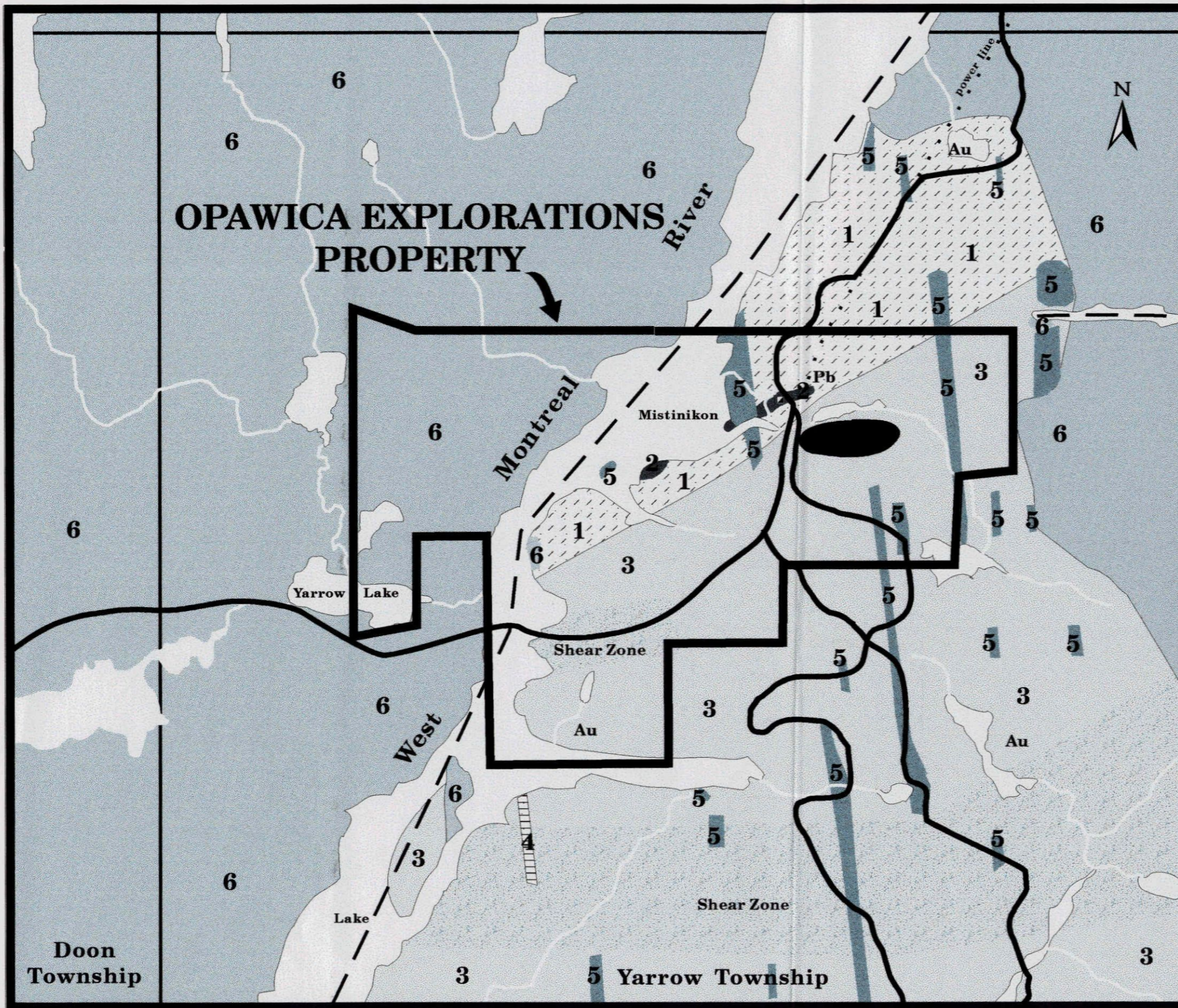
LEGEND

- Nipissing Intrusive Rocks
- Gowganda Formation
- Matachewan Diabase
- Diorite Dike
- Granitic Rocks and Gneisses
- Metasedimentary Rocks
- Intermediate to Felsic Metavolcanic Rocks










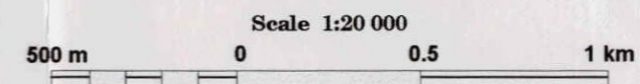
OPAWICA EXPLORATIONS INC
GEOLOGY MAP

FIG. 3 | after OGS Map # 2546



LEGEND

-  Nipissing Intrusive Rocks
-  6 Gowganda Formation
-  5 Matachewan Diabase
-  4 Diorite Dike
-  3 Granitic Rocks and Gneisses
-  2 Metasedimentary Rocks
-  1 Intermediate to Felsic Metavolcanic Rocks



OPAWICA EXPLORATIONS INC

GEOLOGY MAP

FIG. 3

after OGS Map # 2546

mapped the north half of Yarrow Township on a reconnaissance scale. Cooke mapped, in more detail, the northern half of Yarrow Township in 1919. Following renewed gold exploration activity in the area Dyer (1936) mapped the area around Matachewan in detail and studied local mine sites and mineral occurrences. During 1987 the Ministry of Northern Development and Mines examined previously unmapped areas of Yarrow Township inferred to be underlain by rocks of the Huronian Supergroup.

Locally, the property was originally staked in 1928 with the belief that the pyrrhotite may contain nickel.

During the summer of 1948 a short program of trenching and drilling was conducted. The property at this time was known as the Robb Option. Details of this activity are in a report prepared by Cyril W. Knight. The drilling consisted of four holes totalling 349.3 m (1,146 feet). Only one significant intersection (in hole 3), averaging 9.4% Pb and 2.7% Zn, was encountered.

Matarrow Mines Limited was incorporated on July 26, 1948 on a group of 20 unpatented claims located in the north-central part of Yarrow Township. During the summer of 1948 a program of mapping, trenching, X-ray drilling and diamond drilling ("A size") was conducted. This drilling comprised 9 holes totalling 885.7 m (2,906 feet). Also during this period five bulk samples totalling 1,148 pounds were taken. The results of this drilling averaged 5.94% Pb and 2.27 % Zn over an average width of 6.4 feet. A more extensive program of drilling was completed during the winter of 1948-49. During this second campaign of drilling, 25 holes totalling 2,638.5 m (8,656.5 feet) were completed. A third drilling of drilling in 1952 consisted of 5 holes totalling 450.6 m (1,478.3 feet). The property produced 2.6 million pounds of Pb, 1.1 million pounds of zinc and 4,853 ounces of silver from approximately 40,000 tons of ore during 1952/53.

New Jason Mines Limited completed 16 holes, two with wedges, totalling 2,366.4 m (7,763.8 feet) in 1965. No additional production was conducted at this time.

PRESENT WORK

A program of linecutting, under the supervision of Fred Kiernicki of Kirkland Lake, was completed in August 1996.

A magnetic survey conducted by Geola Ltee was completed in August 1996. The survey was conducted to provide magnetic profiles for assistance in geophysical interpretation of the property.

An IP survey conducted by Remy Belanger Geophysics was completed in August 1996. The IP results are presented in a report by Gerard Lambert Geosciences. The purpose of the survey was "to map with a better accuracy the distribution of potentially auriferous disseminated and stringer sulphides in the bedrock."

A program of data review and compilation of information provided to the author was completed prior to commencement of drilling.

Diamond drilling, BQ and NQ size, was done by Kozy Drilling of Kirkland Lake under the field supervision of Fred Kiernicki of Kirkland Lake. The drilling completed during September and October consisted of 6 holes totalling 1077.6 m (3,535.4 feet).

RESULTS

Opawica conducted linecutting, magnetic and IP surveys, trenching, data compilation and diamond drilling during the summer and fall of 1996.

Linecutting was completed at a 200 m line separation. The previous historic baseline was re-established and used as a starting point for the current metric grid. The new grid was started at 0+00 on the old baseline. The baseline azimuth is N66°37'30" E and passes immediately south of the shaft. The 0+00 picket is located on the lakeshore, approximately 215 m (700 feet), southwest of the shaft. The magnetic declination for the area is 12° W.

The property was completely covered by magnetic and IP surveys. The results of these surveys are available under separate covers. A summary table, compiled by the author, listing all IP anomalies located during the course of the geophysical survey, is shown in Table 1. This Table shows the IP ranking of the anomaly (obtained from the IP report) and a relative magnetic response as determined by the author. The anomalies were labelled sequentially from west to east and from south to north. The number and reference line and station (columns 2 & 3 in Table 1) refers to the west end of the anomaly. Map 1, showing the anomalies listed in Table 1, is included in a back pocket. The strongest magnetic and IP response, Anomaly #18, were encountered over the banded iron formation situated along the baseline.

Field investigations, trenching and diamond drilling, evaluated numerous geophysical anomalies. Trenching reached bedrock on only two of six trenches

**Table 1: Matarrow Project
SUMMARY OF 1996 GEOPHYSICAL SURVEY RESULTS**

Anomaly #	Line m	Station m	Length m	IP rank	Magnetic response	Comments
1	L1400W	1290S	50	lo	hi	
2	L1400W	920S	350	lo-hi	hi	
3	L1200W	1065S	400	lo	lo	
4	L1200W	745S	375	med	med	trenched: gte/dia
5	L1200W	615S	600	lo-med	med	
6	L1200W	240S	150	med	hi	MAT96-1
7	L1200W	195S	400	med	hi	
8	L1000W	1290S	50	lo	hi	
9	L1000W	890S	50	lo	lo	power line(pl)
10	L800W	440S	550	lo	lo	
11	L600W	810S	600	lo	med	power line
12	L600W	160S	200'	hi	dipole	
13	L400W	1135S	50	lo	hi	
14	L200W	645S	600	med-hi-med	lo	gte/dia & no bdrk,pl
15	L200W	545S	600	lo	med	sand
16	LO	610S	350	lo	hi	
17	LO	195S	50	lo	med	
18	L200E	15S	1000	hi-med-lo	dipole	MAT96-2 to -6
19	L200E	135N	400	med	lo	gravel/sand
20	L200E	230N	350	med	med	gravel
21	L200E	395N	400	med	hi	
22	L600E	180N	350	lo-hi	hi	
23	L600E	285N	600	hi-lo-hi	lo	
24	L1000E	290S	50	lo	lo	
25	L1000E	165S	200	hi	lo	
26	L1000E	105S	50	lo	hi	
27	L1000E	315N	250	hi	hi	
28	L1000E	440N	50	lo	lo	

attempted. These bedrock results, IP Anomalies 4 and 14, consisted of diabase dykes hosted by granite. The remaining four trenches encountered thick deposits of sand and gravel. Refer to Tables 1 and 2.

The data supplied, for the compilation, consisted of a few short technical, geological and geophysical, reports with numerous drill logs, maps and sections. Also, included in the data package were plans and sections for the Matarrow Mine. The compilation consisted of computerization of drill logs to generate sections for diamond drilling and interpretation of geophysical anomalies.

The diamond drilling, concentrated along the baseline on Anomaly #18, was conducted to evaluate the geophysical responses coincident with the iron formation (IF) and to evaluate the IF below the limits of the previous mining. Some of this drilling was conducted on portions of the IF that were not previously examined.

Results of the drilling were mixed. The first hole, MAT96-1 on the west end of the grid (L1200W), intersected a sequence of silicified sediments interbedded with minor intermediate chloritic and pyritic volcanics intruded by numerous felsic and mafic sills and dykes. The hole was drilled to test a dual IP response on the west end of the property on strike with the main IF. No significant results were obtained.

Hole MAT96-2, on L400E, encountered a sequence of quartzites and silicified sediments with interbedded intermediate volcanics. A section of approximately 30 meters (102.0 to 130.2) of semi-massive to massive po and py, with individual beds up to 1 meter in thickness, was intersected. This hole was drilled to test a single IP response on the main trend of IF. A geochemical anomaly (21.2 m wide) hosted by a portion of the sulphides and overlying andesite (109-130.2 m) returned a value of 308 ppm Pb and 923 ppm Zn and includes a 5 m interval averaging 1016 ppm Pb and 3194 Zn.

Hole MAT96-3, on L600E, intersected a sequence of quartzites and silicified sediments with a mineralized section of approximately 19 meters (61.1 to 79.8). This interval contains individual sulphide beds up to 3 cm in thickness concentrated in an interval of 5 meters (75 to 79.8). This hole ended in ultramafic volcanics. This hole was drilled to test the main IF. Results from this hole returned a weak geochemical anomaly in lead and zinc.

Hole MAT96-4, on L200E, intersected a sequence of quartzites with interbedded intermediate volcanics. This hole ended in a sequence of ultramafic volcanics and silicified sediments (altered greywacke??). This hole contained po and py mineralization over a thickness of approximately 14 meters (85.2 to 99.1) which is concentrated in a 1m unit (92 to 93). The hole was drilled to test the main IF. An underground opening was hit at 108.4 meters. The results include a weak, narrow (3.1 m), geochemical anomaly (Pb-Zn) hosted by sulphide enriched volcanics. A second anomaly, the last 1.4 meters in the hole returned a value of 4070 ppm Pb and 11600 ppm Zn.

Table 2:		Matarrow Project		
1996 TRENCHING RESULTS				
<i>Trench #</i>	<i>Line m</i>	<i>Anomaly #</i>	<i>Location</i>	<i>Comments</i>
1	L1200W	4	west end	gte/dia
2	L200W	14	west end	gte/dia
3	L0	14	center	sand
4	L0	15	center	sand
5	L200E	19	west end	sand & gravel
6	L200E	20	west end	sand & gravel

Hole MAT96-5, on L0, intersected a sequence of silicified sediments and quartzites with minor interbedded intermediate volcanics. The main zone of po and py mineralization was intersected at 136.4 meters to 154. meters. There are numerous translucent qtz veins less than 2 cm wide. One vein contains a 8 mm splash of chalcopyrite. The hole ended in a sequence of ultramafic volcanics. This hole was drilled to test the main IF. Assay results returned anomalous results of 455 ppm Pb and 1686 ppm Zn over 14.6 m(136.4 - 151 m).

Hole MAT96-6, on L200E and beneath MAT96-4, intersected a sequence of silicified sediments and quartzites and ended in a sequence of unaltered and altered greywacke. Sulphide mineralization(po and py) was intersected from 172.7 meters to 239.1 meters. Two large quartz veins (228.5 to 230.3 and 238 to 239.1) were intersected. These veins contained massive and disseminated galena and numerous irregular seams of sphalerite. The grade, extending over 21.0 meters, averaged 6182 ppm Pb and 5971 ppm Zn. The upper or southern vein contained 9.57% Pb and 2.78% Zn over 1 m and the lower or northern vein contained 2.29% Pb and 0.87% Zn over 1.1 meters. These veins appear to be the South and North Veins that hosted previous production. The two veins are separated by a sequence of unaltered greywacke, felsic porphyry and silicified sediments.

A set of drill logs from the recent drilling are included in Appendix A. Appendix B contains all assay certificate and a single page of whole rock results for a suite of samples from MAT96-6. A set of sections showing these drill holes are included in Appendix C. Refer to Map 2 for a plan view of the drilling. The analytical results are summarized in Table 3.

Map 3 shows a longitudinal section of the Pb-Zn values, from the latest campaign, in the Main IF. Although the mining was conducted from two distinct quartz veins this is strong evidence for a much larger "halo" of base metal values surrounding the veins. A cutoff value of 100 ppm for either element was used to define the halo. A grade x true thickness (GxT) value for each of lead and zinc is plotted beside each pierce point. The background value for lead is approximately 10 ppm and the background value for zinc is approximately 50 ppm. The true thickness of each defined interval was calculated by LOGII software. Contours are not provided. The upper four values which occur just below the 2800 m elevation (relative elevation) have low gxt values on each end and higher values in the middle. The values shown for MAT96-4 on L2+00E are partial values as the hole struck an underground opening. Only the last sample, 1.4 meters in length, was used in the calculation. Hole MAT96-6, which intersected two base metal bearing quartz veins, returned the highest gxt value. The pierce point for MAT96-6 is approximately 150 meters down dip from MAT96-4. The values for the five most recent drill holes within the vicinity of the mine show a definite trend which increases with depth. Values from historical drilling were not used in the longitudinal due to the moderate

**Table 3: Matarrow Project:
1996 DIAMOND DRILLING ASSAY SUMMARY**

<i>Hole #</i>	<i>From m</i>	<i>To m</i>	<i>Len m</i>	<i>Pb ppm</i>	<i>Zn ppm</i>	<i>Au gpt</i>	<i>Ag ppm</i>	<i>Cu ppm</i>	<i>Ni ppm</i>
MAT96-2	109.0	130.2	21.2	308	923	0.027	0.893	23	25
Inc	116.0	121.0	5.0	1016	3194	0.026	1.620	45	28
MAT96-3	62.0	68.0	6.0	46	171	0.000	0.217	48	36
MAT96-4	96.0	99.1	3.1	678	2530	0.026	0.329	26	25
	107.0	108.4	1.4	4070	11600	0.030	1.400	350	27
MAT96-5	136.4	151.0	14.6	455	1686	0.005	0.707	35	39
Inc	136.4	139.0	2.6	1607	4850	0.011	2.046	28	33
MAT96-6	219.0	240.0	21.0	6182	5971	0.028	2.080	55	25
Inc	228.0	230.0	2.0	48595	16179	0.030	15.550	330	36
Inc	238.0	240.0	2.0	14062	8969	0.016	1.250	29	18

to poor core recoveries.

Conclusions

The geophysical surveys were successful in outlining numerous anomalies. The IP returned resistivity lows and polarization highs coincident with the IF. Two of the IP anomalies south of the baseline were caused by diabase dykes in granite.

Trenching on anomalies north of the baseline failed to reach bedrock. Additional anomalies on the northern limits of the property were found to extend onto the adjoining property.

Diamond drilling was successful in outlining a geochemical base metal, Pb and Zn, anomaly approximately 600 meters in length. The anomaly increases with depth with the highest response, ddh MAT96-6, located below the limits of previous development. This anomaly is hosted by sulphide enriched cherty-magnetite IF which occurs at or near the sediment mafic/ultramafic contact.

A single, 3.12 grams per tonne, Au assay was obtained from silicified sediments in hole MAT96-6 that are interbedded with relatively fresh, unaltered greywacke. This one meter sample contained a few minute, 1-5 mm, irregular quartz stringers.

Recommendations

The following recommendations are suggested for continued evaluation of the property:

1. examine all remaining IP anomalies by sampling/trenching/drilling.
2. continue to negotiate with property holders on the north side of the property in an effort to share the costs of examining/testing the unexplored anomalies at or near the common boundary.
3. map and sample all exposed IF along the baseline to obtain geochemical data.
4. continue examination of the IF at depth by drilling additional holes west of and below hole MAT96-6.

References

Assessment files, Ministry of Natural Development and Mines, Kirkland Lake.

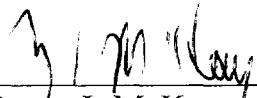
Junnila, R.M., 1990 Precambrian Geology Yarrow and Doon Township
with Emphasis on the Huronian Supergroup. Ministry of Northern
Development and Mines, Ontario Geological Survey Report 277,
containing Geological Map 2546. 33 pp.

Certificate of Qualifications

I, Bryan Joseph McKay, do certify that:

1. I am a resident of Porcupine, Ontario.
2. I am a graduate of St. Francis Xavier University, Antigonish, Nova Scotia and I obtained a B.Sc. (Major in Geology) in 1974.
3. I am a graduate of McGill University, Montreal, Quebec and I obtained a M.Sc.(A.) in Mineral Exploration in 1982.
4. I am a Fellow of the Geological Association of Canada.
5. I am a member of the Prospectors and Developers Association of Canada.
6. I visited the property in Yarrow Township as discussed in this report and was responsible for data compilation and core logging.
7. I have no interest, direct or indirect, in the claims in Yarrow Township or securities of Opawica Explorations Inc or intend to receive any interest, direct or indirect.

Signed this 3 day of March, 1997 in the City of Kirkland Lake, Ontario.



Bryan J. McKay
M.Sc. (A.), F.G.A.C.

Appendix A
Diamond Drill Logs, MAT 96-1 to 96-6

OPAWICA EXPLORATION INC
MATARROW PROJECT
DRILL HOLE RECORD





Date: 4 Mar, 1997

Page: 1 of 6

REF CORD: -300.00 -1200.00 SURVEYED: No HOLE NO: MAT96-1
LOCATION: 3+00S 12+00W GRID: Mine PROPERTY: Matarrow
AZIMUTH: 360.0 Deg. DIP: -45.0 Deg. LENGTH: 226.0 m PROJECT: Matarrow
ELEVATION: 3022.00 m SECTION: 12+00W CORE SIZE: BQ LOGGED BY: BJ McKay
ASSAY TYPE: FA-AA STARTED: 21 Sep 1996 COMPLETED: 24 Sep 1996 DATE LOGGED: 2-3 Oct 96
PURPOSE: to test double IP anomaly on IF CLAIM NO: 1206097 DRILLED BY: Kozy
COMMENTS: Grid bearings used

DIP TESTS (corrected)
DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP

CORE STORED (all holes) in Matachewan at Fred Klernick's warehouse.

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
.00	7.00		CASING									
7.00	12.80		SILICIFIED SEDIMENTS Very fine-grained to fine-grained, grey. Fractured, silicified throughout. Jointing perpendicular to bedding. 7.00 56.00 RQD=10% increasing to 30% with depth Bedding core angles approx. 45 degrees.									
12.80	19.00		DIABASE DYKE Felsic and mafic dykelets; intermixed.									
19.00	136.50		SILICIFIED SEDIMENTS Very fine-grained, grey, reddish orange, cherty similar to above.	23851 23852	19.00 20.00	1.00 1.00	1 2	8 8	.01 .00	.1 .1	29 25	8 8

OPAWICA EXPLORATION INC
 MATARROW PROJECT
 DRILL HOLE RECORD

Date: 4 Mar, 1997

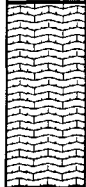


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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm	
			Fractured parallel to bedding, jointing perpendicular bedding. Qtz veinlets perpendicular to bedding, scattered throughout.	23853	21.00	1.00	5	7	.00	.1	22	7	
			58.00 78.00 Predominantly fine-grained, grey unit locally bleached with minor reddish orange alteration. Locally brecciated with hem staining.	23854	82.60	.70	26	18	.00	.1	10	20	
				23855	103.80	1.00	1	5	.00	.1	8	11	
			108.50 132.10 Predominantly grey, similar to above. Minor bleaching, no reddish alternation. Extensive pervasive silicification. Locally brecciated. Parallel and perpendicular hairline qtz filled fractures and joints.										
			132.10 136.50 Cherty, very fine-grained, silicified, pervasive strong alteration. Irregular variable bedding 10 to 45 dca.	23856	132.10	.90	1	17	.00	.1	15	14	
				23857	133.00	1.00	1	15	.02	.1	17	10	
				23858	134.00	1.00	1	13	.00	.1	11	12	
136.50	137.00		DIABASE DYKE	Black, fine-grained, massive, weakly magnetite. Broken contacts.									
137.00	139.60		SILICIFIED SEDIMENTS	Very fine-grained, silicified, similar to above. Brownish-grey locally tinted orange. Strong pervasive silification.	23859	137.00	1.00	1	10	.00	.1	11	10
					23860	138.00	1.00	1	10	.00	.1	10	16
				23861	139.00	.60	1	18	.00	.1	75	9	
139.60	139.90	VOLCANICS	Fine to medium-grained, green, moderately foliated.	23862	139.60	.50	1	39	.00	.1	32	10	

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
182.20	187.20	◇ ◇ ◇	PORPHYRY Fine to medium-grained, grey, felsic porphyry with orange-white siliceous phenocrysts. Poorly developed foliation at 45 dca. Scattered parallel and perpendicular fractures locally with creamy white qtz filler. Lower contact 35 dca.									
187.20	193.45		SILICIFIED SEDIMENTS Very fine-grained to fine-grained, grey unit, locally cherty, locally tinted orange. 190.70 FAULT with grey green clayey gouge.									
193.45	194.90		DIABASE DYKE Fine-grained, grey, green, silicified with moderate pervasive silicification. 194.20 194.35 Very fine-grained, light brownish green dykelet, silicified. A chill margin, 2-3cm wide, in host dyke, at upper contact of unit. Lower contact of dykelet sheared, chloritic.									
194.90	202.40		SILICIFIED SEDIMENTS Very fine-grained to fine-grained, cherty, silicified units, interbedded with fine-grained, grey units measured in mm. 1-2% Py, locally brecciated with hem staining. 197.00 197.20 Quartz VEIN, 20 dca with 1 % pyrite.	23865 23866 23867	195.00 196.00 197.00	1.00 1.00 .60	1 1 1	16 13 20	.00 .00 .00	.1 .1 .1	43 14 16	12 16 13

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
				23890	78.00	1.00	1	31	.00	.1	22	18
				23891	79.00	1.00	1	40	.02	.1	23	18
				23892	80.00	1.00	1	32	.01	.1	24	17
				23893	81.00	1.00	1	30	.02	.4	21	15
			81.20 84.60 Section with 2% pyrite. Trace pyrrhotite with	23894	82.00	1.00	1	28	.01	.4	18	16
				23895	83.00	1.00	1	41	.01	.3	18	17
				23896	84.00	1.00	20	47	.37	1.9	26	28
			SULPHIDES ALSO IN JOINTS perpendicular to bedding. Three quartz VEINS up to 3 cm wide.									
			84.60 102.00 Very fine-grained, fine-grained, bleached	23897	85.00	1.00	1	29	.01	.3	11	18
				23898	86.00	1.00	1	29	.02	.2	14	22
				23899	87.00	1.00	1	30	.03	.2	21	17
				23900	88.00	1.00	1	31	.33	1.4	39	25
				23901	89.00	1.00	1	41	.02	.2	24	20
				23902	90.00	1.00	1	35	.03	.2	41	37
				23903	91.00	1.00	1	33	.02	.2	31	25
				23904	92.00	1.00	1	40	.03	.3	52	29
				23905	93.00	1.00	1	51	.00	.1	24	17
				23906	94.00	1.00	1	61	.01	.2	49	26
				23907	95.00	1.00	1	112	.03	.2	36	21
				23908	96.00	1.00	1	52	.01	.1	28	32
				23909	97.00	1.00	1	40	.00	.2	43	26
				23910	98.00	1.00	1	43	.01	.2	38	28
				23911	99.00	1.00	1	32	.01	.3	26	23
				23912	100.00	1.00	1	38	.00	.2	19	26
				23913	101.00	1.00	1	36	.00	.3	20	28
			Locally broken, fractured. Occasional brecciated. Nil to 1% pyrite, nil to 2% pyrrhotite.									
102.00	108.20		MINERALIZED SECTION									
			Semi-massive to massive po and py.	23914	102.00	1.00	1	35	.03	.7	21	26
			Massive sections up to 10 cm thick.	23915	103.00	1.00	1	37	.04	.7	19	22
			Green chloritic sections and siliceous sections up to 3 cm thick.	23916	104.00	1.00	1	25	.02	.7	15	20
			Bedding 45 to 70 dca.	23917	105.00	1.00	2	17	.12	.7	28	33
				23918	106.00	1.00	4	23	.02	.9	20	28
				23919	107.00	1.00	4	25	.04	.8	15	19
				23920	108.00	1.00	14	154	.02	.6	14	35

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
108.20	115.00		ANDESITE Fine-grained, grey, green, silicified with trace to 3% pyrrhotite and pyrite as irregular seams, disseminated specks and scattered blebs. Locally brecciated with chlorite filler.	23921	109.00	1.00	149	268	.01	1.7	14	16
				23922	110.00	1.00	225	273	.01	1.7	13	20
				23923	111.00	1.00	111	351	.00	.2	13	18
				23924	112.00	1.00	16	61	.00	.2	21	21
				23925	113.00	1.00	6	45	.01	.3	17	19
				23926	114.00	1.00	10	31	.01	.3	23	23
115.00	125.50		MINERALIZED SECTION ANDESITE Similar to above with massive pyrrhotite up to 70 cm thick. Silicified VOLCANICS as interbeds.	23927	115.00	1.00	31	52	.01	.3	18	13
				23928	116.00	1.00	1210	5640	.01	1.1	59	31
			116.40 Irregular quartz - carbonate seam perpendicular to bedding with splash of sphalerite and trace galena.	23929	117.00	1.00	381	2670	.01	1.1	59	31
				23930	118.00	1.00	280	1670	.00	2.0	24	18
				23931	119.00	1.00	2080	3010	.04	1.6	32	26
				23932	120.00	1.00	1130	2980	.07	2.3	49	35
				23933	121.00	1.00	112	255	.00	.2	16	33
				23934	122.00	1.00	322	1020	.00	.2	13	26
				23935	123.00	1.00	166	400	.00	.1	15	22
				23936	124.00	1.00	21	118	.02	.2	12	26
				23937	125.00	1.00	17	17	.04	1.1	16	37
125.50	130.20		MINERALIZED SECTION Predominantly massive pyrrhotite beds up to 100 cm thick with minute siliceous interbeds. Locally faulted with minor gouge. Locally brecciated with pyrite fragments in pyrrhotite matrix. Bedding locally disrupted by complex folding.	23938	126.00	1.00	5	15	.09	1.3	16	4
				23939	127.00	1.00	9	16	.12	1.6	17	42
				23940	128.00	1.00	6	24	.04	.6	15	34
				23941	129.00	1.20	200	543	.07	.7	18	22
130.20	145.80		VOLCANICS Black, grey, chloritic. Faulted with minor green chloritic gouge. RQD 40%.									
145.80	173.20		DIORITE Fine to medium-grained, massive, poorly foliated, fractured throughout, locally sheared.	23942	158.00	1.00	10	50	.00	.2	800	35

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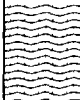



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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
			Numerous irregular seams and bands of qtz-epid with garnets??. Seams and bands have a white alteration halo up to 1 cm wide. Locally sheared with epidotized slips and slickensides. Jointed, fractured, RQD 75%.									
			40.00 41.00 A 20 cm seam subparallel to core axis.	23961	40.00	1.00	10	42	.01	.3	17	16
			49.00 52.30 Upper half, chloritic with 2-3% seam and disseminated pyrite.	23962	49.00	1.00	1	32	.01	.2	28	16
			23963 50.00 1.00 1	23963	50.00	1.00	1	19	.00	.1	18	18
			23964 51.00 1.00 1	23964	51.00	1.00	1	16	.00	.1	16	16
			23965 52.00 1.00 1	23965	52.00	1.00	1	27	.00	.1	14	19
			23966 53.00 1.00 1	23966	53.00	1.00	1	27	.00	.1	21	17
			54.00 54.20 Section with 5% pyrite with minute bleached alteration halos with chlorite as fracture filler.	23967	54.00	1.00	1	24	.01	.2	32	26
			23968 55.00 1.00 1	23968	55.00	1.00	1	24	.02	.5	19	15
			55.10 55.30 Similar to above, fractured, with 5% pyrite in chlorite filled fracture. Creamy wh qtz, 3 cm, 45 dca with 10% py.									
60.20	60.60	xxxxxx	FELSIC INTRUSIVE									
		xxxxxx	Very fine-grained to fine-grained, grey, silicified, PORPHYRY, unit with 3% rounded white clasts.									
60.60	84.05	xxxxxx	QUARTZITE									
		xxxxxx	Continued from above with occasional chlorite section as noted.									
		xxxxxx	60.60 60.90 Chloritic section with trace pyrite.									
		xxxxxx	66.60 66.80 Chloritic with trace pyrite.									
		xxxxxx	69.90 79.00 Several chloritic sections, with trace	23969	74.00	1.00	1	38	.01	.1	22	24
		xxxxxx		23970	75.00	1.00	1	59	.00	.1	24	19

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
			Locally cracked and minor brecciation with creamy qtz filler. Lower contact 60 dca.									
104.40	104.80		PORPHYRY Typical unit with sheared contacts.									
104.80	108.40		SILICIFIED SEDIMENTS Very fine-grained to fine-grained, finely bedded, black and grey silicified sediments. Bedding 65 dca. Broken and sheared, (blasted??). 5% To massive pyrrhotite and pyrite with bands up to 60 cm thick. Similar ratios to above but with more silicified seams, (silica flooding??). Locally brecciated, fractured, jointed. 105.80 Small shear with a smear of galena?.	23985	104.80	1.20	114	360	.01	.4	46	59
108.40			END OF HOLE Hit an opening: stope/shaft????? North Zone??. Collar elevation is approximate.	23986 23987	106.00 107.00	1.00 1.40	18 4070	20 11600	.01 .03	.9 1.4	37 350	31 27

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
86.20	86.70	xxxxxx	FELSIC INTRUSIVE Very fine-grained, green, silicified with orange-white and white phenocrysts. Contacts irregular.									
86.70	95.10	~~~~~	SILICIFIED SEDIMENTS Similar to above.									
95.10	96.80	xxxxxx	FELSIC INTRUSIVE Similar to above.									
96.80	99.30	~~~~~	SILICIFIED SEDIMENTS Similar to above, bleached throughout. Lower contact, brecciated.									
99.30	136.40		DIABASE DYKE Fine-grained, dark green, black. Fractured, locally sheared. Locally brecciated with creamy white quartz and minor epidotized filler. Lower contact, brecciated, fractured.									
136.40	154.30	~~~~~	SILICIFIED SEDIMENTS Very fine-grained, grey, black, green. Strong pervasive silicification. Fractured, brecciated, sheared, throughout.									
			136.40 139.20 Broken, foliated with gouge. Locally ground core, 90% recovery. Brecciated creamy white quartz VEINS up to 5 cm. Numerous 1-2 cm, translucent white quartz VEINS.	23990	136.40	.60	2040	10900	.03	1.2	28	24
				23991	137.00	1.00	383	4300	.01	1.2	18	37
				23992	138.00	1.00	2570	1770	.00	3.4	39	35
				23993	139.00	1.00	595	1060	.00	.7	28	27
				23994	140.00	1.00	198	178	.01	.7	13	22
			140.30 140.90 Fine-grained, grey, 3% pyrite as	23995	141.00	1.00	110	2400	.00	.4	37	22

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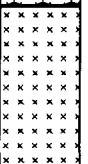

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm	
35.20	45.60		QUARTZITE										
			Fine-grained, grey, massive.	4901	35.20	.80	2	19	.00	.1	23	22	
			Jointed with quartz filled joints, up to 3 per meter.	4902	36.70	.60	3	15	.05	.2	26	12	
			42.10 Whole Rock Sample 7451.	4903	40.40	1.00	16	247	.01	.5	26	10	
45.60	107.70		SILICIFIED SEDIMENTS										
			Similar to above, locally finely bedded, occasional offset by steep to vertical micro-faults. Jointed throughout.	4904	45.60	1.00	27	496	.00	.1	12	16	
			52.50 Irregular, discontinuous sphalerite seam at 45 dca.	4905	46.60	1.00	5	26	.01	.3	15	26	
			61.00 Whole Rock Sample 7452.	4906	47.60	1.00	7	52	.01	.5	16	46	
				4907	48.60	1.00	28	173	.00	.2	19	14	
			78.60 79.20 Network of minute fracture filled qtz veinlets, with a very fine-grained, shattered, greyish white host.										
			84.00 Whole Rock Sample 7453.										
			85.00 107.70 Increase in amount, width and intensity of bleaching around joints and fractures. Also bleaching in irregular discontinuous seams parallel to bedding. Also irregular qtz-garnet seams with augen texture. Altered bleached layers wrap around augens of garnets.	4908	68.50	1.00	7	91	.01	.3	44	15	
				4909	69.50	1.00	1	27	.00	.1	10	18	
				4910	70.50	1.00	1	23	.00	.1	15	11	
		102.00 Whole Rock Sample 7454.	4911	90.60	.80	1	26	.00	.3	60	12		
			4912	91.40	.40	2	67	.00	.1	312	104		

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
107.70	108.00		DIABASE DYKE Fine-grained, dark green, non-magnetic, fractured, brecciated, broken. Irregular contacts.									
108.00	132.20		SILICIFIED SEDIMENTS Continued from above. Bedding locally disrupted, numerous irregular quartz seams with scattered garnets. Occasional silicified layers tinted orange. Sulphide increases to 3-5% with depth. Silicification increasing with depth. Grain size decreasing with depth. Pyrite as disseminated, irregular masses, minute continuous and discontinuous seams. Also as breccia filler with and without Qtz.									
			124.90 Whole Rock Sample 7455.	4913	108.50	1.20	7	20	.00	.1	32	12
				4914	110.20	1.00	1	47	.00	.1	38	39
				4915	111.20	1.00	1	22	.00	.1	28	14
				4916	112.20	1.00	1	46	.00	.1	26	57
				4917	113.20	1.00	1	31	.01	.2	23	9
				4918	114.20	.80	1	28	.01	.1	21	9
				4919	115.00	1.00	1	26	.00	.1	23	10
				4920	116.00	1.00	1	36	.04	.1	40	14
				4921	117.00	1.00	1	20	.01	.2	37	12
				4922	118.00	1.00	1	23	.00	.1	24	10
				4923	119.00	1.00	1	23	.00	.1	18	12
				4924	120.00	1.00	1	31	.00	.1	37	43
				4925	121.00	1.00	1	24	.00	.1	39	10
				4926	122.00	1.00	1	23	.00	.1	25	11
				4927	123.00	1.00	1	40	.01	.2	21	13
				4928	124.00	1.00	1	40	.00	.2	41	11
				4929	125.00	1.00	1	28	.01	.1	28	15
				4930	126.00	1.00	1	30	.01	.1	12	26
				4931	127.00	1.00	1	41	.01	.1	19	14
				4932	128.00	1.00	1	30	.01	.2	25	15
				4933	129.00	1.00	1	19	.01	.1	48	10
			129.90 Orange white Qtz vein, 10 cm wide.	4934	130.00	1.00	1	46	.00	.1	18	93
				4935	131.00	1.00	1	114	.00	.1	7	188
			131.10 Orange white and white Qtz vein, 10 cm wide.	4936	132.00	1.00	1	103	.01	.1	12	302
132.20	132.90		FELSIC INTRUSIVE Fine to medium-grained, black and white, massive, trace pyrite.									
			132.40 Whole Rock Sample 7456.									
132.90	171.20		SILICIFIED SEDIMENTS FELSIC INTRUSIVE Similar to above. Sulphide content	4937	133.00	1.00	1	22	.01	.1	25	9

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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm	
			FORMATION										
			Fine-grained, black, locally sheared.	4976	188.00	1.00	1	19	.00	.2	17	13	
			Py:po is 1:1, with total content locally up to 2%.	4977	189.00	1.00	1	17	.00	.2	15	10	
			Sulphides occur as discontinuous and irregular seams, joint and fracture filler and as discontinuous bands parallel to bedding.										
			10% Pinkish brown garnets.										
			Unit is weakly to strongly magnetic										
			Lower 1.5m is brecciated, foliated.										
			Occasional healed chloritic slip with minor pyrite.										
			189.10 Whole Rock Sample 7463.	7020	190.00	1.00	11	14	.00	.1	12	5	
				4978	191.00	1.00	1	17	.00	.1	10	5	
			4979	192.00	.70	1	18	.01	.1	11	15		
192.70	195.00		FELSIC INTRUSIVE										
			192.70 193.40 Fine-grained, brownish white, massive. Occasional white and orange white phenocrysts within first 15cm of section.	7021	192.70	.70	2	42	.00	.1	28	12	
			193.10 Whole Rock Sample 7464.										
			193.40 Lower contact, sharp, 40 dca.	7022	193.40	2.40	1	48	.00	.1	18	69	
			193.40 195.00 Fine-grained, grey Brown, PORPHYRY with scattered white and white-orange phenocrysts throughout.										
			194.40 Whole Rock Sample 7465.										
195.00	203.40		MINERALIZED ZONE										
			Massive pyrrhotite with minor pyrite and scattered fragments of	4980	195.80	1.20	2	15	.09	.5	22	39	

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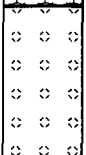


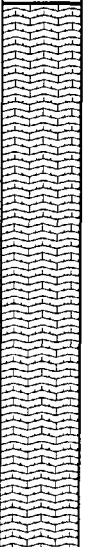






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From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
		*****	cherty siliceous sediment.									
		*****	197.00 199.00 Section with only	4981	197.00	1.00	1	16	.04	.2	13	25
		*****	20% pyrrhotite.	4982	198.00	1.00	1	12	.04	.3	14	25
		*****	Bedding distorted	4983	199.00	1.00	2	10	.08	.3	14	22
		*****	throughout, locally	4984	200.00	1.00	3	11	.03	.6	23	47
		*****	parallel to core	4985	201.00	1.00	5	12	.06	.7	25	50
		*****	axis. Locally sheared	4986	202.00	1.00	5	13	.07	.5	20	37
		*****		4987	203.00	.40	10	11	.04	.5	22	51
203.40	209.40	*****	GREYWACKE									
		*****	Fine-grained, alternating black and light grey layers.									
		*****	Well bedded, locally undisturbed and unaltered.									
		*****	Jointed perpendicular to bedding.									
		*****	Bedding 35 to 45 dca.									
		*****	Contacts sheared, lower contact faulted and with gouge.									
209.40	211.40	*****	GREYWACKE									
		*****	Very fine-grained, silicified, bleached, cherty sediment. Bedding locally microfaulted with fault planes varying from 40 to 90 dca.	4988	209.40	1.00	60	323	.00	.3	35	29
		*****	210.10 Whole Rock Sample 7466.	4989	210.40	1.00	83	385	.00	.2	40	28
211.40	219.00	*****	GREYWACKE									
		*****	Similar to 203.4 to 209.4.									
		*****	Lower 1.5m brecciated and foliated with creamy white quartz veining in upper 50 cm.									
219.00	231.80	*****	MINERALIZED ZONE									
		*****	Similar to MINERALIZED ZONE above.	4990	219.00	1.00	400	740	.02	.4	19	28
		*****	Fine-grained, black, sheared, brecciated, jointed.	4991	220.00	1.00	19	50	.04	.6	23	34
		*****	Bedding locally distorted. 45 dca.	4992	221.00	1.00	20	41	.08	.7	21	39
		*****	10 to 100% massive pyrrhotite with MINOR pyrite.	4993	222.00	1.00	5	29	.04	.3	12	15
		*****		4994	223.00	1.00	11	25	.01	.3	14	14
		*****		4995	224.00	1.00	245	411	.01	.6	20	35
		*****		4996	225.00	1.00	991	1410	.02	.5	18	18
		*****		4997	226.00	1.00	32	29	.05	.5	19	27
		*****	227.00 Whole Rock Sample	4998	227.00	1.00	39	231	.11	1.0	107	31

OPAWICA EXPLORATION INC
MATARROW PROJECT
DRILL HOLE RECORD

Date: 4 Mar, 1997

Hole No: MAT96-
Page : 8 of 9

From (m)	To (m)	Rock Type	Geology	Sample	From (m)	Length (m)	Pb ppm	Zn ppm	Au gpt	Ag ppm	Cu ppm	Ni ppm
		xxxxx	7467. 228.50 230.30 Creamy white quartz VEIN with sphalerite, galena, as massive and disseminated seams. Minor pyrrhotite and pyrite.	4999	228.00	1.00	95700	27777	.05	30.6	637	64
		xxxxx	228.65 A 8 cm seam of massive galena.									
		xxxxx	228.80 Whole Rock Sample 7468.	5000	229.00	1.00	1490	4580	.01	.5	23	8
		xxxxx		7001	230.00	1.00	204	22100	.01	.8	14	15
		xxxxx		7002	231.00	.80	251	12400	.01	.4	17	28
231.80	232.80		GREYWACKE Typical grey, moderately silicified sediment.	7023	231.80	1.00	9	48	.00	.1	14	27
232.80	235.20		PORPHYRY Medium-grained, grey felsic unit with white phenocrysts.	7003	232.80	1.20	86	6120	.01	.3	33	20
			234.30 Whole Rock Sample 7469.	7004	234.00	1.00	283	7540	.03	.6	30	18
				7005	235.00	1.00	404	15600	.04	.8	25	23
235.20	239.10		SILICIFIED SEDIMENTS Fine-grained, black, silicified, brecciated.									
			236.00 237.00 FAULT zone, brecciated, with 30% core recovery.	7024	236.00	1.00	677	4620	.00	.9	18	29
				7006	237.00	1.00	875	4950	.01	1.3	22	27
			238.00 239.10 Brecciated with creamy white qtz filler (70%) with disseminated and euhedral galena and scattered wisps of sphalerite.	7007	238.00	1.10	22900	8740	.02	1.7	24	16
			238.65 A 12 cm creamy white quartz VEIN.									
239.10	253.00		SILICIFIED SEDIMENTS Fine-grained, greyish brown, strong pervasive bleaching	7025	239.10	.90	3260	9250	.01	.7	34	20
				7026	240.00	1.00	61	64	.02	.1	12	4

Appendix B
Assay Certificates



Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

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Assay Certificate

6W-4625-RA1

Company: **OPAWICA EXPLORATION INC**
Project: Mattarrow
Attn: B.J. McKay/D. Clark

Date: NOV-07-96

We hereby certify the following Assay of 90 Core samples submitted NOV-05-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
4901	Nil	-	0.1	23	22	2	19
4902	0.05	-	0.2	26	12	3	15
4903	0.01	-	0.5	26	10	16	247
4904	Nil	-	0.1	12	16	27	496
4905	0.01	-	0.3	15	26	5	26
4906	0.01	0.01	0.5	16	46	7	52
4907	Nil	-	0.2	19	14	28	173
4908	0.01	-	0.3	44	15	7	91
4909	Nil	-	0.1	10	18	1	27
4910	Nil	-	0.1	15	11	1	23
4911	Nil	-	0.3	60	12	1	26
4912	Nil	-	0.1	32	104	2	67
4913	Nil	-	0.1	32	12	7	20
4914	Nil	-	0.1	38	39	1	47
4915	Nil	-	0.1	28	14	1	22
4916	Nil	-	0.1	26	57	1	46
4917	0.01	-	0.2	23	9	1	31
4918	0.01	-	0.1	21	9	1	28
4919	Nil	-	0.1	23	10	1	26
4920	0.04	0.01	0.1	40	14	1	36
4921	0.01	-	0.2	37	12	1	20
4922	Nil	-	0.1	24	10	1	23
4923	Nil	-	0.1	18	12	1	23
4924	Nil	-	0.1	37	43	1	31
4925	Nil	-	0.1	39	10	1	24
4926	Nil	-	0.1	25	11	1	23
4927	0.01	-	0.2	21	13	1	40
4928	Nil	0.01	0.2	41	11	1	40
4929	0.01	-	0.1	28	15	1	28
4930	0.01	-	0.1	12	26	1	30

One assay ton portion used.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Page 2 of 3

Assay Certificate

6W-4625-RA1

Company: **OPAWICA EXPLORATION INC**
Project: **Mattarrow**
Attn: **B.J. McKay/D. Clark**

Date: NOV-07-96

We hereby certify the following Assay of 90 Core samples submitted NOV-05-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
4931	0.01	-	0.1	19	14	1	41
4932	0.01	Nil	0.2	25	15	1	30
4933	0.01	-	0.2	48	10	1	19
4934	Nil	-	0.1	18	93	1	46
4935	Nil	-	0.1	7	188	1	114
4936	0.01	-	0.1	12	302	1	103
4937	0.01	-	0.1	25	9	1	22
4938	0.01	-	0.1	27	10	1	21
4939	Nil	-	0.1	31	111	1	44
4940	0.01	-	0.2	27	11	1	18
4941	0.02	-	0.1	23	11	1	20
4942	0.01	-	0.1	20	10	1	18
4943	0.01	-	0.4	28	12	9	170
4944	0.01	-	0.2	25	11	6	60
4945	Nil	-	0.1	14	10	1	26
4946	0.01	-	0.2	24	12	7	61
4947	0.01	-	0.2	28	13	5	69
4948	0.01	-	0.2	12	10	3	34
4949	Nil	-	0.1	20	8	1	42
4950	Nil	-	0.2	23	11	1	47
4951	0.01	-	0.2	54	10	1	39
4952	Nil	Nil	0.1	42	16	1	42
4953	Nil	-	0.1	34	14	1	53
4954	Nil	-	0.1	20	13	1	38
4955	Nil	-	0.2	25	12	1	83
4956	Nil	-	0.1	18	10	1	35
4957	Nil	-	0.1	29	12	1	40
4958	Nil	-	0.1	21	15	1	61
4959	Nil	Nil	0.2	27	16	1	31
4960	Nil	-	0.1	23	12	1	33

One assay ton portion used.

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

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Swastika Laboratories

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Assay Certificate

6W-4625-RA1

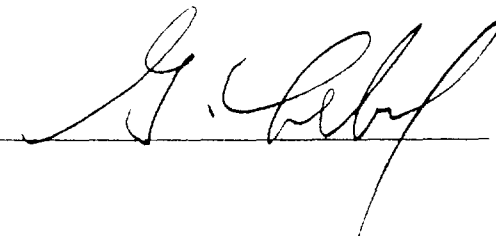
Company: **OPAWICA EXPLORATION INC**
Project: **Mattarrow**
Attn: **B.J. McKay/D. Clark**

Date: NOV-07-96

We hereby certify the following Assay of 90 Core samples submitted NOV-05-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
4961	0.02	-	0.3	52	34	2	61
4962	0.01	-	0.2	17	17	1	82
4963	Nil	-	0.2	28	15	1	25
4964	0.03	0.02	0.3	14	21	1	24
4965	0.04	-	0.2	12	21	1	14
4966	0.03	-	0.3	11	20	1	16
4967	0.07	0.07	0.5	14	20	1	12
4968	0.03	-	0.3	11	17	1	14
4969	0.04	-	0.1	8	17	1	10
4970	0.05	0.05	0.3	14	21	1	12
7951	0.01	-	0.6	86	74	591	3430
7952	0.01	-	0.4	58	66	134	303
7953	0.01	-	0.4	73	49	80	614
7954	Nil	-	0.4	55	32	140	1510
7955	0.01	-	0.4	33	73	66	206
7956	0.01	-	0.4	31	52	45	173
7957	Nil	-	0.3	37	58	42	156
23988	Nil	-	0.2	44	12	1	87
23989	Nil	-	0.2	63	19	1	129
23990	0.03	-	1.2	28	24	2040	10900
23991	0.01	-	1.2	18	37	383	4300
23992	Nil	-	3.4	39	35	2570	1770
23993	Nil	-	0.7	28	27	595	1060
23994	0.01	-	0.7	13	22	198	178
23995	Nil	-	0.4	37	22	110	2400
23996	0.01	-	0.3	21	28	101	431
23997	Nil	-	0.3	15	32	41	265
23998	Nil	-	0.3	23	47	174	462
23999	Nil	-	0.3	14	46	235	917
24000	Nil	-	0.2	13	37	71	430

One assay ton portion used.

Certified by 



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Page 1 of 2

Assay Certificate

6W-4632-RA1


Company: **OPAWICA EXPLORATION INC**
Project: **Matarrow**
Attn: **D. Clark / B.J. McKay**

Date: NOV-08-96

We hereby certify the following Assay of 49 Core samples submitted NOV-05-96 by .

Sample Number	3 Au g/tonne	Au Check g/tonne	Au 2nd g/tonne	4 Ag g/tonne	5 Cu PPM	6 Ni PPM	1 Pb PPM	2 Zn PPM
4971	0.07	0.06	-	0.5	18	22	1	16
4972	0.01	-	-	0.2	11	6	1	19
4973	0.01	-	-	0.2	13	10	1	20
4974	0.01	-	-	0.1	16	37	1	31
4975	0.01	-	-	0.2	21	39	1	30
4976	Nil	-	-	0.2	17	13	1	19
4977	Nil	-	-	0.2	15	10	1	17
4978	Nil	-	-	0.1	10	5	1	17
4979	0.01	-	-	0.1	11	15	1	18
4980	0.09	-	-	0.5	22	39	2	15
4981	0.04	-	-	0.2	13	25	1	16
4982	0.04	-	-	0.3	14	25	1	12
4983	0.08	-	-	0.3	14	22	2	10
4984	0.03	-	-	0.6	23	47	3	11
4985	0.06	-	-	0.7	25	50	5	12
4986	0.07	-	-	0.5	20	37	5	13
4987	0.04	0.04	-	0.5	22	51	10	11
4988	Nil	-	-	0.3	35	29	60	323
4989	Nil	-	-	0.2	40	28	83	385
4990	0.02	-	-	0.4	19	28	400	740
4991	0.04	-	-	0.6	23	34	19	50
4992	0.08	-	-	0.7	21	39	20	41
4993	0.04	-	-	0.3	12	15	5	29
4994	0.01	-	-	0.3	14	14	11	25
4995	0.01	-	-	0.6	20	35	245	411
4996	0.02	-	-	0.5	18	18	991	1410
4997	0.05	-	-	0.5	19	27	32	29
4998	0.11	-	-	1.0	107	31	39	231
4999	0.04	0.06	-	30.6	637	64 *	9.57 % *	2.77 %
5000	0.01	-	-	0.5	23	8	1490	4580

One assay ton portion used. * Indicates where results were over 20000 PPM and done using the assay method.

Certified by 

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Established 1928

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Page 2 of 2

Assay Certificate

6W-4632-RA1

Company: **OPAWICA EXPLORATION INC**
Project: Matarrow
Attn: D. Clark / B.J. McKay

Date: NOV-08-96

We hereby certify the following Assay of 49 Core samples submitted NOV-05-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Au 2nd g/tonne	Ag g/tonne	Cu PPM	Ni PPM	Pb PPM	Zn PPM
7001	0.01	-	-	0.8	14	15	204 *	2.21 %
7002	0.01	-	-	0.4	17	28	251	12400
7003	0.01	-	-	0.3	33	20	86	6120
7004	0.03	-	-	0.6	30	18	283	7540
7005	0.04	-	-	0.8	25	23	404	15600
7006	0.01	-	-	1.3	22	27	875	4950
7007	0.02	0.02	-	1.7	24	16 *	2.29 %	8740
7008	0.01	-	-	0.1	18	9	40	84
7009	Nil	-	-	0.2	17	9	92	187
7010	Nil	-	-	0.3	35	20	10	72
7011	0.02	-	-	0.2	35	18	5	97
7012	0.22	-	-	1.1	40	25	57	218
7013	3.09	3.16	3.19	2.4	41	23	49	32
7014	0.04	-	-	0.3	64	27	27	115
7015	0.05	0.04	-	0.3	59	29	12	39
7016	0.02	-	-	0.2	58	28	16	259
7017	0.01	-	-	0.2	28	137	57	191
7018	0.03	-	-	0.1	37	49	11	68
7019	0.01	-	-	0.1	85	23	8	35

One assay ton portion used. * Indicates where results were over 20000 PPM and done using the assay method.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

6W-4358-RA1

Company: **OPAWICA EXPLORATION INC**
 Project: Matarrow
 Attn: D. Clark/B. McKay

Date: OCT-30-96

We hereby certify the following Assay of 31 Core samples submitted OCT-18-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
23957	0.07	0.07	0.2	26	13	1	34
23958	0.05	-	0.1	33	18	1	38
23959	0.02	-	0.1	20	15	1	34
23960	0.02	-	0.1	12	22	1	50
23961	0.01	-	0.3	17	16	10	42
23962	0.01	-	0.2	28	16	1	32
23963	Nil	-	0.1	18	18	1	19
23964	Nil	-	0.1	16	16	1	16
23965	Nil	-	0.1	14	19	1	27
23966	Nil	-	0.1	21	17	1	27
23967	0.01	-	0.2	32	26	1	24
23968	0.02	-	0.5	19	15	1	24
23969	0.01	Nil	0.1	22	24	1	38
23970	Nil	-	0.1	24	19	1	59
23971	0.02	-	0.2	21	26	1	39
23972	0.01	-	0.1	11	18	1	41
23973	0.01	-	0.1	10	25	1	81
23974	Nil	-	0.1	11	22	1	71
23975	0.03	-	0.2	14	21	1	116
23976	0.03	-	0.3	17	30	1	21
23977	0.02	-	0.2	14	29	1	14
23978	0.02	-	0.6	22	43	1	13
23979	0.02	-	0.2	12	21	1	19
23980	0.02	-	0.3	12	28	1	28
23981	0.01	-	0.1	21	25	34	261
23982	0.01	-	0.2	17	22	163	459
23983	0.06	0.10	0.6	36	29	1610	6130
23984	0.01	-	0.2	24	24	299	1140
23985	0.01	-	0.4	46	59	114	360
23986	0.01	-	0.9	37	31	18	20
23987	0.03	-	1.4	350	27	4070	11600

One assay ton portion used.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

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Assay Certificate

6W-3955-RA1

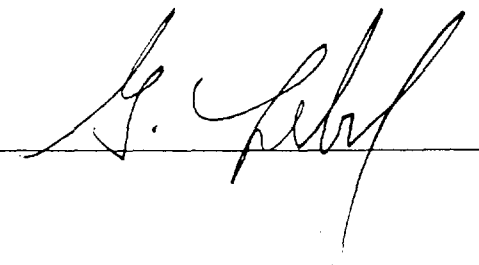
Company: **OPAWICA EXPLORATIONS INC**
Project: Matarrow PO# 96-101
Attn: D. Clark/B. McKay

Date: OCT-09-96
Copy 1. B.J. McKay Phone 567-5351 FOR PICK-UP

We hereby certify the following Assay of 50 Core samples submitted OCT-04-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
23851	0.01	-	0.1	29	8	1	8
23852	Nil	-	0.1	25	8	2	8
23853	Nil	-	0.1	22	7	5	7
23854	Nil	Nil	0.1	10	20	26	18
23855	Nil	-	0.1	8	11	1	5
23856	Nil	-	0.1	15	14	1	17
23857	0.02	-	0.1	17	10	1	15
23858	Nil	-	0.1	11	12	1	13
23859	Nil	-	0.1	11	10	1	10
23860	Nil	-	0.1	10	16	1	10
23861	Nil	-	0.1	75	9	1	18
23862	Nil	-	0.1	32	10	1	39
23863	Nil	-	0.1	12	7	1	32
23864	0.02	0.02	0.5	21	17	1	43
23865	Nil	-	0.1	43	12	1	16
23866	Nil	-	0.1	14	16	1	13
23867	Nil	-	0.1	16	13	1	20
23868	0.02	-	0.2	26	21	4	48
23869	0.01	-	0.2	84	14	1	27
23870	Nil	0.01	0.3	24	26	1	57
23871	Nil	-	0.2	62	164	4	100
23872	Nil	-	0.1	57	17	1	27
23873	Nil	-	0.1	46	16	1	32
23874	Nil	-	0.1	21	17	1	28
23875	Nil	-	0.1	19	16	1	33
23876	0.06	-	0.8	26	23	13	56
23877	0.08	0.07	0.3	46	23	1	29
23878	0.01	-	0.2	31	24	1	34
23879	Nil	-	0.2	28	19	1	45
23880	Nil	-	0.1	20	21	1	47

One assay ton portion used.

Certified by 



Swastika Laboratories

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Assaying - Consulting - Representation

Page 2 of 2

Established 1928

Assay Certificate

6W-3955-RA1


Company: **OPAWICA EXPLORATIONS INC**
Project: **Matarrow PO# 96-101**
Attn: **D. Clark/B. McKay**

Date: **OCT-09-96**
Copy 1. B.J. McKay Phone 567-5351 FOR PICK-UP

We hereby certify the following Assay of 50 Core samples submitted OCT-04-96 by .

Sample Number	3		4	5	6	1	2
	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
23881	Nil	-	0.2	20	15	1	25
23882	0.01	-	0.3	38	11	1	28
23883	0.01	-	0.2	41	19	1	29
23884	0.02	-	0.2	39	26	1	27
23885	0.02	0.02	0.4	67	27	1	29
23886	Nil	-	0.2	56	23	1	31
23887	Nil	-	0.1	29	17	1	30
23888	0.01	-	0.1	44	33	1	47
23889	Nil	-	0.1	27	15	1	37
23890	Nil	-	0.1	22	18	1	31
23891	0.02	-	0.1	23	18	1	40
23892	0.01	-	0.1	24	17	1	32
23893	0.02	-	0.4	21	15	1	30
23894	0.01	-	0.4	18	16	1	28
23895	0.01	-	0.3	18	17	1	41
23896	0.36	0.39	1.9	26	28	20	47
23897	0.01	-	0.3	11	18	1	29
23898	0.02	-	0.2	14	22	1	29
23899	0.03	-	0.2	21	17	1	30
23900	0.33	-	1.4	39	25	1	31

One assay ton portion used.

Certified by 



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 1 of 2

Established 1928

Assay Certificate

6W-3956-RA1

Company: **OPAWICA EXPLORATIONS INC**
Project: **Matarrow PO# 96-101**
Attn: **D. Clark/B. McKay**

Date: **OCT-10-96**
Copy 1. B.J. McKay Phone 567-5351 FOR PICK-UP

We hereby certify the following Assay of 56 Core samples submitted OCT-04-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
23901	0.02	-	0.2	24	20	1	41
23902	0.03	0.03	0.2	41	37	1	35
23903	0.02	-	0.2	31	25	1	33
23904	0.03	-	0.3	52	29	1	40
23905	Nil	-	0.1	24	17	1	51
23906	0.01	-	0.2	49	26	1	61
23907	0.03	-	0.2	36	21	1	112
23908	0.01	-	0.1	28	32	1	52
23909	Nil	-	0.2	43	26	1	40
23910	0.01	-	0.2	38	28	1	43
23911	0.01	-	0.3	26	23	1	32
23912	Nil	-	0.2	19	26	1	38
23913	Nil	-	0.3	20	28	1	36
23914	0.03	-	0.7	21	26	1	35
23915	0.04	-	0.7	19	22	1	37
23916	0.02	-	0.7	15	20	1	25
23917	0.12	-	0.7	28	33	2	17
23918	0.02	-	0.9	20	28	4	23
23919	0.04	0.04	0.8	15	19	4	25
23920	0.02	-	0.6	14	35	14	154
23921	0.01	-	1.7	14	16	149	268
23922	0.01	-	1.7	13	20	225	273
23923	Nil	-	0.2	13	18	111	351
23924	Nil	-	0.2	21	21	16	61
23925	0.01	-	0.3	17	19	6	45
23926	0.01	-	0.3	23	23	10	31
23927	0.01	-	0.3	18	13	31	52
23928	0.01	0.02	1.1	59	31	1210	5640
23929	0.01	-	1.0	17	15	381	2670
23930	Nil	-	2.0	24	18	280	1670

One assay ton portion used.

Certified by 



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

Assay Certificate

6W-3956-RA1

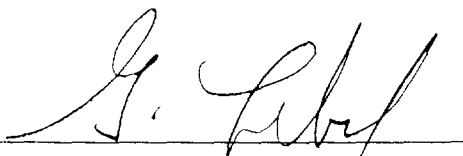
Company: **OPAWICA EXPLORATIONS INC**
Project: Matarrow PO# 96-101
Attn: D. Clark/B. McKay

Date: OCT-10-96
copy 1. B.J. McKay Phone 567-5351 FOR PICK-UP

We hereby certify the following Assay of 56 Core samples submitted OCT-04-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
23931	0.04	-	1.6	32	26	2080	3010
23932	0.07	0.06	2.3	49	35	1130	2980
23933	Nil	-	0.2	16	33	112	255
23934	Nil	-	0.2	13	26	322	1020
23935	Nil	-	0.1	15	22	166	400
23936	0.02	-	0.2	12	26	21	118
23937	0.04	-	1.1	16	37	17	17
23938	0.09	-	1.3	16	42	5	15
23939	0.12	0.11	1.6	17	42	9	16
23940	0.04	-	0.6	15	34	6	24
23941	0.07	-	0.7	18	22	200	543
23942	Nil	-	0.2	800	35	10	50
23943	Nil	-	0.2	160	21	4	31
23944	Nil	-	0.1	24	38	1	59
23945	Nil	-	0.2	24	26	24	210
23946	Nil	-	0.2	49	42	23	70
23947	Nil	-	0.2	51	45	25	35
23948	Nil	-	0.3	44	41	21	70
23949	Nil	-	0.2	39	31	80	381
23950	Nil	-	0.2	80	33	105	261
23951	0.01	-	0.3	24	13	127	288
23952	0.04	0.03	0.8	28	24	3	23
23953	0.01	-	0.1	11	32	1	22
23954	0.01	-	0.1	11	9	1	13
23955	0.02	-	0.5	19	13	1	11
23956	0.01	-	0.3	15	139	3	13

One assay ton portion used.

Certified by 



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Assay Certificate

6W-4832-RA1

Company: **OPAWICA EXPL**

Date: NOV-22-96

Project:

Attn: D. Clark/B. McKay

We hereby certify the following Assay of 7 Core samples submitted NOV-17-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Ag PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
7020	Nil	Nil	0.1	12	5	11	14
7021	Nil	-	0.1	28	12	2	42
7022	Nil	-	0.1	18	69	1	48
7023	Nil	-	0.1	14	27	9	48
7024	Nil	-	0.9	18	29	677	4620
7025	0.01	0.01	0.7	34	20	3260	9250
7026	0.02	-	0.1	12	4	61	64

One assay ton portion used.

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300

OPAWICA EXPLORATIONS

ATTN: S. J. McKAY
 PROJ: MATARROW

TSL/ASSAY Laboratories

1270 FEWSTER DRIVE, UNIT 3 MISSISSAUGA, ONTARIO L4W-1A4
 PHONE #: (905)602-8236 FAX #: (905)206-0513

REPORT No. : M-57
 Page No. : 1 of 1
 File No. : MV27RA
 Date : NOV-27-1996

I.C.A.P. TOTAL OXIDE ANALYSIS

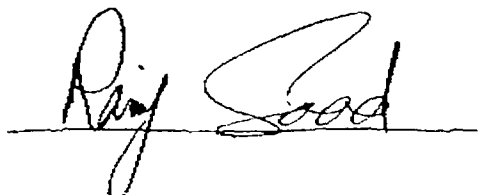
Lithium MetaBorate Fusion

6W-4850-RG1

P.1

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
7451	68.75	14.74	3.49	3.42	0.79	3.97	0.96	0.29	0.10	0.12	190	250	100	10	6	< 30	< 1	30	670	20	45	15	15	1.15	97.78
7452	68.48	14.31	4.34	2.18	0.72	4.93	1.20	0.29	0.14	0.14	280	200	100	< 2	4	< 30	< 1	25	350	10	45	15	5	0.95	97.67
7453	70.12	15.31	2.71	2.36	0.57	5.48	1.18	0.32	0.11	0.14	240	220	110	4	3	< 30	< 1	10	505	< 5	50	10	5	1.19	99.48
7454	69.04	15.38	4.17	4.07	0.57	4.15	1.22	0.32	0.16	0.14	290	270	110	4	6	< 30	< 1	20	535	10	50	15	45	1.23	100.43
7455	67.16	14.44	5.46	1.87	0.81	5.74	0.96	0.30	0.15	0.14	150	190	90	4	5	< 30	< 1	30	755	5	45	15	10	0.75	97.77
7456	51.67	9.80	5.47	12.13	7.25	1.51	0.56	0.40	0.15	0.38	70	110	100	26	13	< 30	< 1	425	610	< 5	95	30	50	11.41	100.70
7457	71.27	14.76	2.49	2.78	0.56	4.79	1.48	0.30	0.09	0.14	300	260	110	8	4	< 30	1	15	470	< 5	45	5	10	1.11	99.79
7458	70.96	15.19	2.34	2.43	0.77	5.66	0.92	0.27	0.08	0.18	430	520	110	6	3	< 30	1	10	480	< 5	30	10	35	1.22	99.93
7459	69.27	13.75	5.43	3.68	0.80	4.07	1.06	0.28	0.27	0.12	330	260	90	6	4	< 30	< 1	10	540	15	35	15	40	1.40	100.12
7460	68.49	15.73	2.93	2.69	1.13	5.06	2.32	0.30	0.08	0.18	690	380	100	8	4	< 30	1	5	435	< 5	40	10	75	1.41	100.31
7461	50.63	7.14	26.96	2.96	2.90	1.45	0.54	0.10	1.11	0.06	120	120	20	4	2	< 30	< 1	20	665	< 5	25	20	35	5.74	99.59
7462	69.52	15.33	3.70	2.69	1.48	5.15	1.38	0.30	0.11	0.16	740	580	90	6	5	< 30	1	30	510	5	45	15	45	1.06	100.87
7463	41.83	9.50	34.36	6.27	4.13	1.05	0.44	0.12	1.94	0.06	80	90	20	6	2	< 30	< 1	20	270	10	20	10	< 5	1.22	100.91
7464	69.20	14.83	4.39	2.56	0.98	5.05	1.68	0.28	0.22	0.14	740	520	100	4	3	< 30	< 1	15	475	10	35	10	10	1.04	100.36
7465	67.13	14.52	4.25	3.46	2.90	4.97	1.02	0.40	0.18	0.20	540	510	100	6	7	< 30	1	85	550	10	60	15	45	1.44	100.46
7466	71.13	14.94	1.71	2.02	0.69	5.16	1.04	0.22	0.06	0.12	230	350	80	4	3	< 30	< 1	15	565	< 5	30	15	75	0.98	98.04
7467	15.95	2.95	56.25	3.30	3.40	0.16	0.18	0.36	0.90	0.06	50	60	< 10	8	5	< 30	< 1	55	135	60	55	30	< 5	14.25	97.74
7468	3.47	0.24	2.80	52.45	0.29	< 0.01	0.02	0.02	0.39	0.02	< 10	120	10	58	10	< 30	< 1	15	10	10	< 5	10	< 5	38.38	98.09
7469	68.04	14.34	4.24	3.96	1.91	5.66	0.46	0.29	0.11	0.16	130	290	90	10	4	< 30	< 1	25	415	< 5	40	10	35	1.61	100.78
7470	70.40	14.42	3.72	1.90	1.24	4.10	1.66	0.25	0.06	0.10	280	220	90	8	2	< 30	< 1	25	665	25	30	15	50	2.45	100.30
7471	69.71	15.35	2.98	1.79	1.72	6.25	0.74	0.35	0.05	0.20	290	370	100	6	5	< 30	< 1	15	430	25	45	10	15	1.51	100.68

NOV 27 '96 11:25 TSL-ASSAYERS

SIGNED : 

Appendix C
Diamond Drill Sections, 1996 DDHs

Transaction Number (for use) DOCUMENT No. W 0780 0049 Assessment Class Research Imaging



Personal information collected Mining Act, the information is a Questions about this collectio 933 Ramsey Lake Road, Sudb

2.17169 the Mining Act. Under section 8 of the correspond with the mining land holder. Development and Mines, 6th Floor,

900

RECEIVED MAR 07 1997 MINING LANDS BRANCH

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Form with fields for Name, Address, Client Number, Telephone Number, and Fax Number. Handwritten entry: Fred Stan Nienicki, 82 Bernhardt Dr, Kirkland Lake.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

Work Type: Knuckling, diamond drilling. Office Use: Commodity, Total \$ Value of Work Claimed 103,189. Dates Work Performed: From 3/8/96 To 25/10/96. Township/Area: Yarrow, M or G-Plan Number: 4260. Mining Division: Larder Lake, Resident Geologist District: Kirkland Lake.

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Form with fields for Name, Address, Telephone Number, and Fax Number. Handwritten entry: Bryan J. McKeay, 205 Bayberry, Porcupine.

RECEIVED 197 MAR 4 PM 3 42 MINING DIVISION LARDER LAKE

4. Certification by Recorded Holder or Agent

I, Bryan J. McKeay, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Bryan J. McKeay, Date: 7 March. Agent's Address: 205 Bayberry, Porcupine, Telephone Number: 235-8101, Fax Number.

DEVELOPMENT DIVISION 1997

*
 k. Value of work
 distributed
 date.

DOCUMENT No.
 W 9780 • 00149

RECEIVED
 MAR 07 1997
 MINING LANDS BRANCH

17169

* Schedule

claim #	units	performed	applied	assigned	bank
- 446423	1	\$6,140	\$1,880		\$4,260
- 446424	1	\$6,140	\$1,880		\$4,260
- 446425	1	\$1,400	\$1,880		
- 494579	1	\$800	\$2,206		
- 494581	1	\$800	\$1,480		
- 1206080	10	\$800	\$24,000		
- 1206093	4	\$2,320	\$9,600		
- 1206094	1	\$560	\$2,400		
1206095	4	\$59,777	\$9,600	\$46,846	\$3,331
1206096	2	\$5,300	\$4,800		\$500
1206097	2	\$14,312	\$4,800		\$9,512
1206098	4	\$2,800	\$9,600		
1206099	2	\$1,400	\$4,800		
1206100	1	\$640	\$2,400		
	35	\$103,189	\$81,326	\$46,846	\$21,863

BJM

***** may refer to the assessment work submitted.

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous to the mining land where work was performed, at the time work was performed. A map showing the mining land must accompany this form. DOCUMENT No. W 9780-00149

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank Value to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	\$24,000	\$24,000	0	0
eg 1234568	2	\$8,892	-\$4,000	0	\$4,892
1 440423	1	6,140.00	3,962.00	3,177.40	
2 440424	1	6,140.00	3,962.00	3,177.40	
3 440425	1	6,400.00	3,962.00		
4 494579	1	800.00	3,962.00		
5 494581	1	800.00	3,962.00		
6 1206080	10	500.00	29,625.00		
7 1206093	4	7,320.00	11,850.00		
8 1206094	1	200.00	3,962.00		
9 1206095	4	59,776.00	11,850.00	47,926.00	
10 1206096	2	5,300.00	5,125.00		
11 1206097	2	14,312.00	5,125.00	8,387.00	
12 1206098	4	7,800.00	11,850.00		
13 1206099	2	1,400.00	3,962.00		
14 1206100	1	640.00	3,962.00		
15					
Column Totals		103,685.00	103,685.00	62,667.00	

* see attached amendments Schedule B. Bryan J. McKay (Print Full Name)

do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: 3 March 97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

RECEIVED
MAR 07 1997
MINING LANDS BRANCH

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only
Received Stamp: 26 JUN 97 4 PM 3 42
LARDER LAKE MINING DIVISION

Deemed Approved Date: 97 Jun 2
Date Approved: [Signature]
Total Value of Credit Approved: [Signature]
Approved for Recording by Mining Recorder (Signature): [Signature]

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines



Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

June 23, 1997

Roy Spooner
Mining Recorder
4 Government Road East
Kirkland Lake, ON
P2N 1A2

Telephone: (705) 670-5853
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17169

Status

Subject: Transaction Number(s): W9780.00149 **Approval After Notice**

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gates_b@torv05.ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Work Report Assessment Results

Submission Number: 2.17169

Date Correspondence Sent: June 23, 1997

Assessor: Bruce Gates

General Comment:

Note: the corrections were not in duplicate as required. To ensure approval of future submissions submit all corrections in duplicate.

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00149	446423	YARROW	Approval After Notice	June 22, 1997

Section:

10 Physical PDRILL

The revisions outlined in the Notice dated May 08, 1997, have been corrected for the diamond drilling portion of this submission. Accordingly, assessment work credit of \$46,307 has been approved for diamond drilling. The costs associated with linecutting and trenching has been deleted from this submission.

Assessment credit has been approved as outlined on the attached Distribution of Assessment Work Credit sheet.

Correspondence to:

Mining Recorder
Kirkland Lake, ON

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Bryan J. McKay
PORCUPINE, ONTARIO, CANADA

FRED STAN KIERNICKI
KIRKLAND LAKE, Ontario

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s). Please contact the Mining Recorder to determine if this affects the status of your claims.

Date: June 23, 1997

Submission Number: 2.17169

Transaction Number: W9780.00149

<u>Claim Number</u>	<u>Value Of Work Performed</u>
446423	24,467.00
494579	9,410.00
494581	2,719.00
1206097	9,711.00
	<hr/>
Total: \$	46,307.00



Powell Twp. (M-241)

THE TOWNSHIP
OF
2.17169
YARROW

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKOG	
MINES	
CANCELLED	
PATENTED S.R.O.	

NOTES

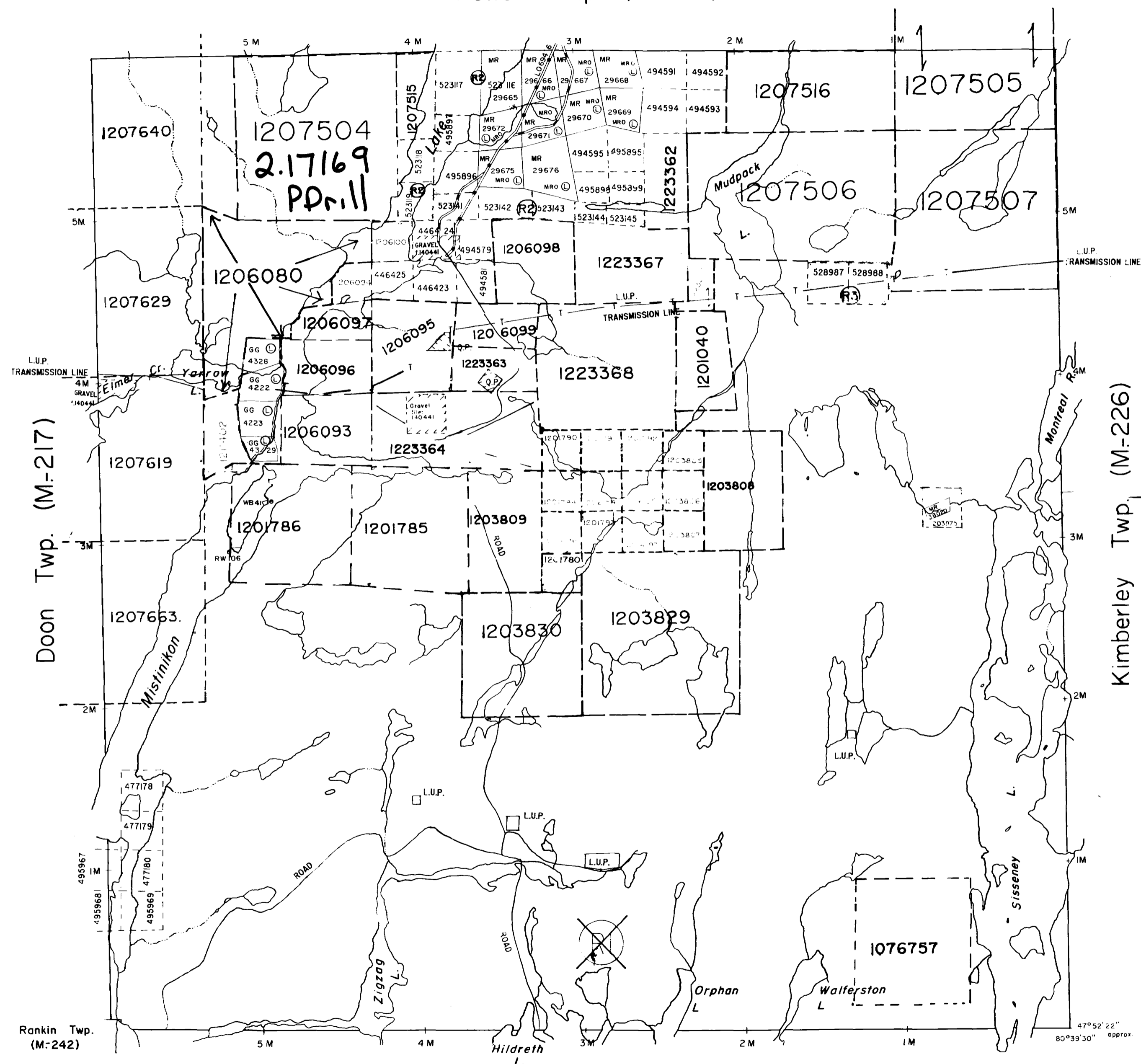
400' Surface Rights Reservation along
the Shores of all Lakes and Rivers.
L.O. 7601 Covers Flooding Rights in
this Township to below Contour 870'
for Ont. Hydro. File 12290 v.2.

- (P) MINING AND SURFACE RIGHTS WITHDRAWN
ORDER NO. W-L-21/95 DATED MARCH 30, 1995
- (R) MINING & SURFACE RIGHTS REOPENED TO
PROSPECTING, SALE OR LEASE, ORDER O-L-10/95,
PREVIOUSLY WITHDRAWN UNDER
ORDER #W 65/83.
- (R) MINING AND SURFACE RIGHTS WITHDRAWN
ORDER NO. W-L-22/95 DATED MARCH 30, 1995.
PREVIOUSLY WITHDRAWN UNDER ORDER #NRW 65/83.

NOTICE OF FORESTRY ACTIVITY
THIS TOWNSHIP / AREA FALLS WITHIN THE
ELK LAKE MANAGEMENT UNIT
AND MAY BE SUBJECT TO FORESTRY OPERATIONS
THE MNR UNIT FORESTER FOR THIS AREA CAN BE
CONTACTED AT
30X 29
SWASTIKA ONT
POK TO 705-642-3222

PLAN NO. **M.260**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Doon Twp. (M-217)

Kimberley Twp. (M-226)

Rankin Twp. (M-242)

Morel Twp. (M-238)

INFORMATION THAT
ON THIS MAP
BEEN COMPILED
VARIOUS SOURCES
ACCURACY IS NOT
WARRANTED. THOSE
WISHING TO SHARE MIN-
ING RIGHTS SHOULD CON-
SULT THE MINING
DEPARTMENT OF
NATURAL RESOURCES
AND MINES FOR AD-
DITIONAL INFORMATION
ON THE STATUS OF THE
LAND SHOWN HEREON.

02S.M

YARROW TWP

02S.M

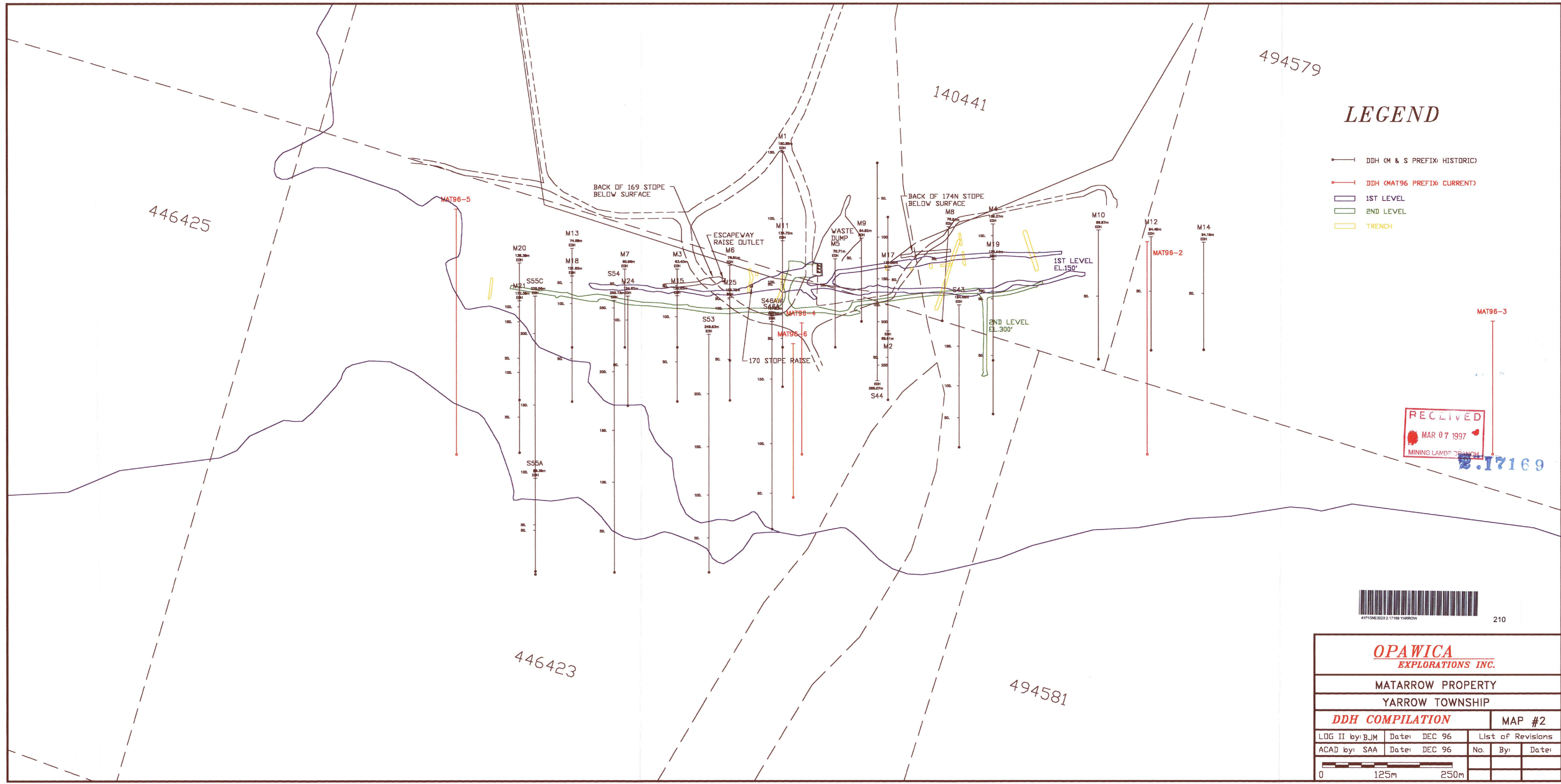
494579

140441

446425

LEGEND

- DDH (M & S PREFIX) HISTORIC
- DDH (MAT96 PREFIX) CURRENT
- 1ST LEVEL
- 2ND LEVEL
- TRENCH



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210

446423

494581

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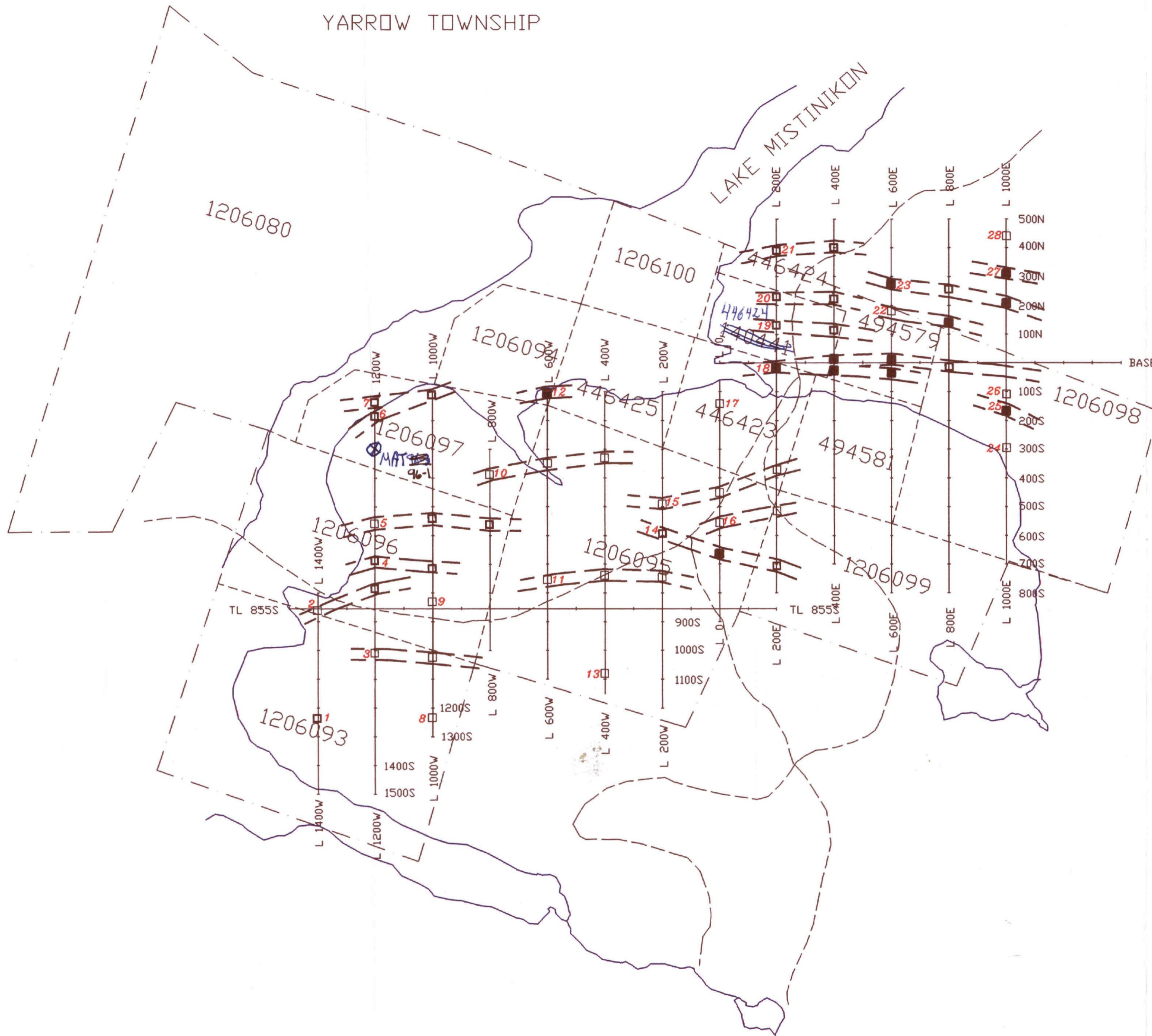
MATARROW PROPERTY
 YARROW TOWNSHIP

DDH COMPILATION MAP #2

LOG II by: BJM	Date: DEC 96	List of Revisions
ACAD by: SAA	Date: DEC 96	No. By: Date:



YARROW TOWNSHIP



*Declination
12°W*

BASELINE 66° 37' 30"

LEGEND

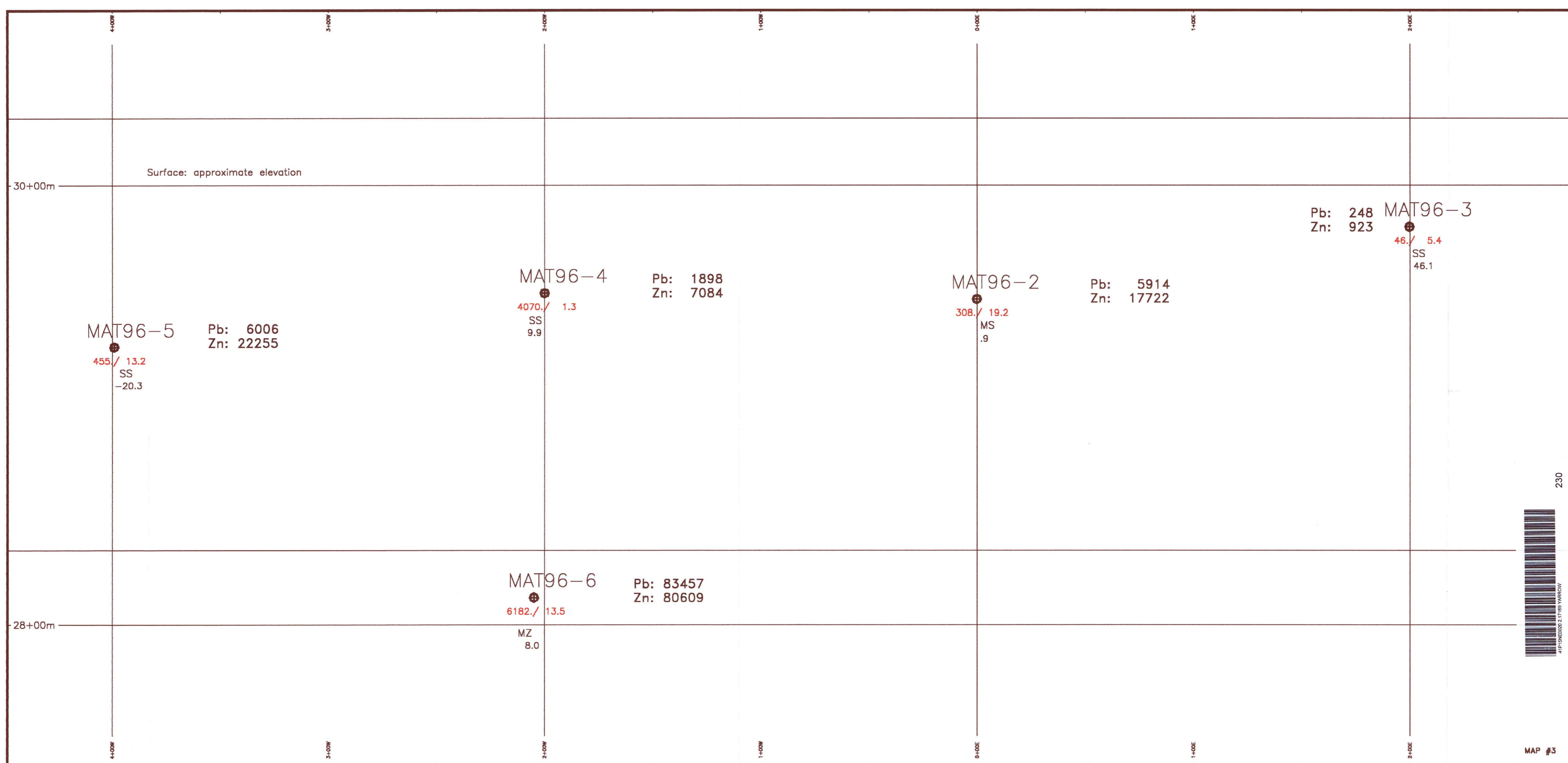
- POLARISATION INCREASE WITH A SIGNIFICANT DECREASE OF RESISTIVITY
 - POLARISATION INCREASE WITHOUT A SIGNIFICANT DECREASE OF RESISTIVITY
 - POORLY DEFINED POLARISATION INCREASE WITH NO RESISTIVITY SIGNATURE
- 13 ANOMALY REFERENCE NUMBER**



220

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OPAWICA EXPLORATIONS INC.			
MATARROW PROPERTY			
YARROW TOWNSHIP			
ANOMALY INDEX MAP			MAP #1
LDG II by:BJM	Date: Dec 96	List of Revisions	
ACAD by: SAA	Date: Dec 96	No.	By: Date:
0 200m 400m			



LEGEND

- CAS CASING
- ROCK CODES
- BIF BANDED IRON FORMATION
- IF IRON FORMATION
- MS MINERALIZED SECTION
- BS BANDED SILICA
- SS SLIPPED SEDIMENTS
- VN VEIN
- CV CALCITE VEIN
- POR PORPHYRY
- FPOR FELDSPAR PORPHYRY
- INT FELSIC INTRUSIVE
- DIA DIABASE
- DTE DIORITE
- GAB GABBRO
- DYKE DYKE
- DD DIORITE DYKE
- CS CHLORITE SCHIST
- TGS TALC CHLORITE SCHIST
- TUFF TUFF
- ANDI ANDESITE
- ANK ANKISE
- QTE QUARTZITE
- CQTE CONGLOMERATIC QUARTZITE
- GNE GREYWACKE
- LVA LAVA
- VOLC VOLCANICS
- INT INTERMEDIATE VOLCANICS
- UM ULTRAMAFIC VOLCANICS
- TZ TRANSITION ZONE
- HZ HYBRID ZONE
- FZ FAULT ZONE
- BZ BRECCIA ZONE
- GC GROUND CORE
- NC NO CORE

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MAP #3

MAT96-3 Hole Number
 Pb(ppm)/meters
 Major Rock Code
 Length of main unit
 Plat ExTT(true thickness)
 Zn-CWTT



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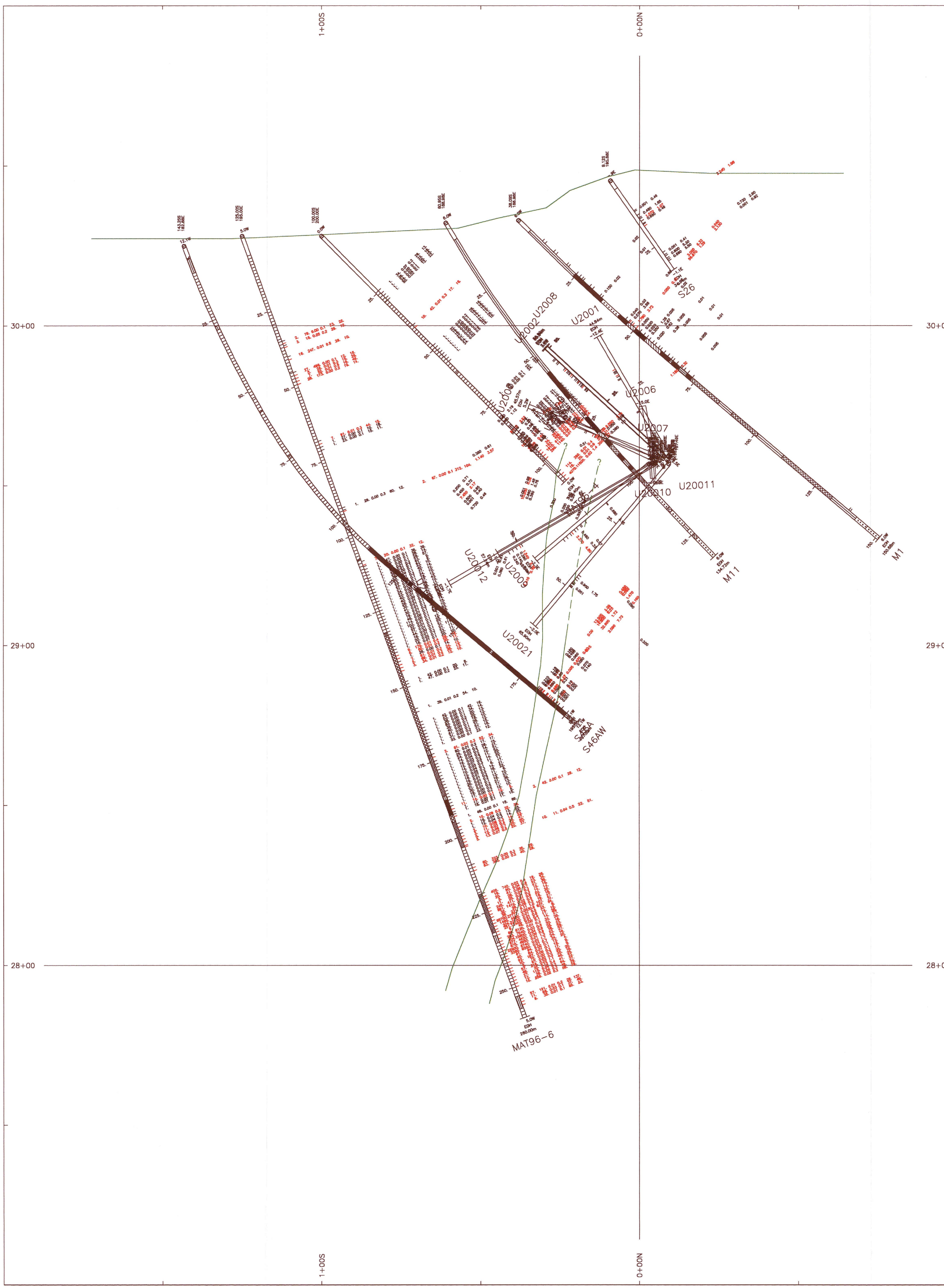
MATARROW PROJECT

Section Looking North

Longitudinal Section: Main IF

LOGII	BJM	Date:	Dec 96	List of Revisions
ACAD	SAA	Date:	Dec 96	No. By Date





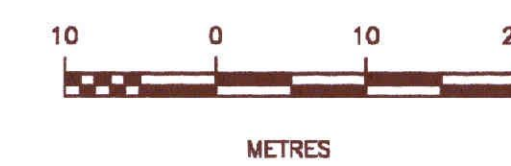
LEGEND

- | | |
|------------|-------------------------|
| | CASING |
| ROCK CODES | |
| | BANDED IRON FORMATION |
| | MINERALIZED SECTION |
| | BANDED SILICA |
| | VEIN |
| | CALCITE VEIN |
| | PORPHYRY |
| | FELDSPAR PORPHYRY |
| | INTRUSIVE |
| | DIABASE |
| | DIORITE |
| | GABBRO |
| | DYKE |
| | DIORITE DYKE |
| | CHLORITE SCHIST |
| | TALC CHLORITE SCHIST |
| | TUFF |
| | ANDESITE |
| | ARKOSE |
| | QUARTZITE |
| | CONGLOMERATIC QUARTZITE |
| | GREY WACKE |
| | SILICIFIED SEDIMENTS |
| | LAVA |
| | VOLCANICS |
| | INTERMEDIATE VOLCANICS |
| | ULTRAMAFICS |
| | TRANSITION ZONE |
| | HYBRID ZONE |
| | FAULT ZONE |
| | BRECCIA ZONE |
| | GROUND CORE |
| | NO CORE |

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SCALE 1:500

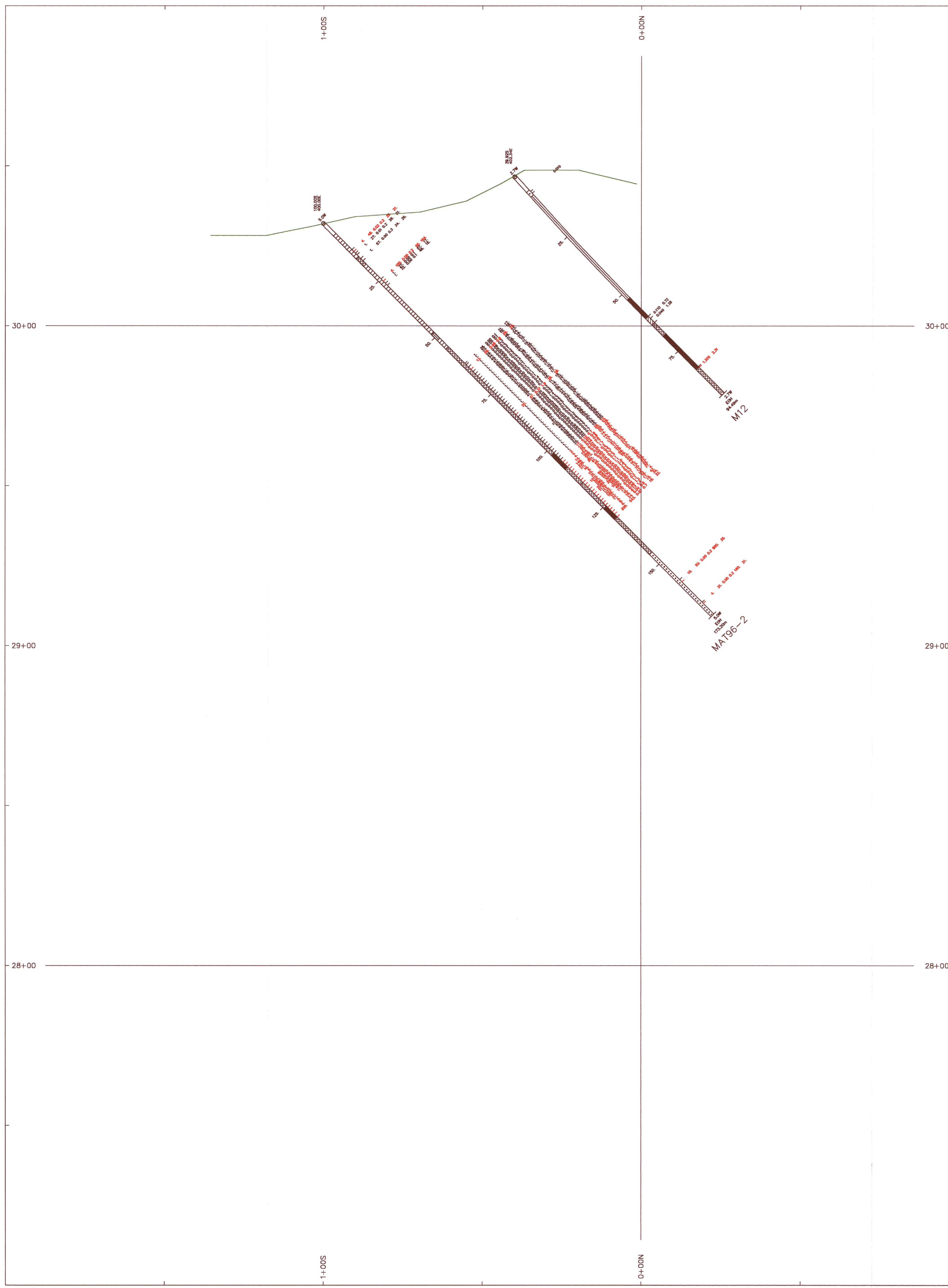


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Matarrow Project

DDH Section 1+95E

Looking West BY: BJM

Scale 1:500 DATE: Dec 96

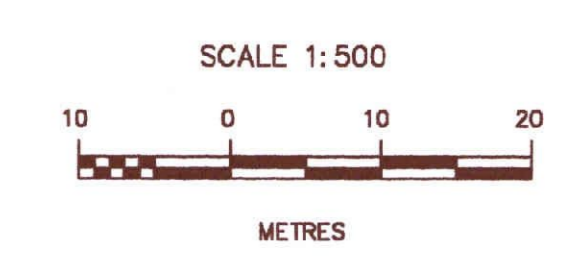


LEGEND

- CAS CASING
- ROCK CODES
- BANDED IRON FORMATION
- MINERALIZED SECTION
- BANDED SILICA
- VEIN
- CALCITE VEIN
- PORPHYRY
- FELDSPAR PORPHYRY
- DIABASE
- DIORITE
- GABBRO
- DYKE
- DIORITE DYKE
- CHLORITE SCHIST
- TALC CHLORITE SCHIST
- TUFF
- ANDESITE
- ARKOSE
- QUARTZITE
- CONGLOMERATIC QUARTZITE
- LAVA
- VOLCANICS
- INTERMEDIATE VOLCANICS
- TRANSITION ZONE
- HYBRID ZONE
- FAULT ZONE
- BRECCIA ZONE
- GROUND CORE
- NO CORE

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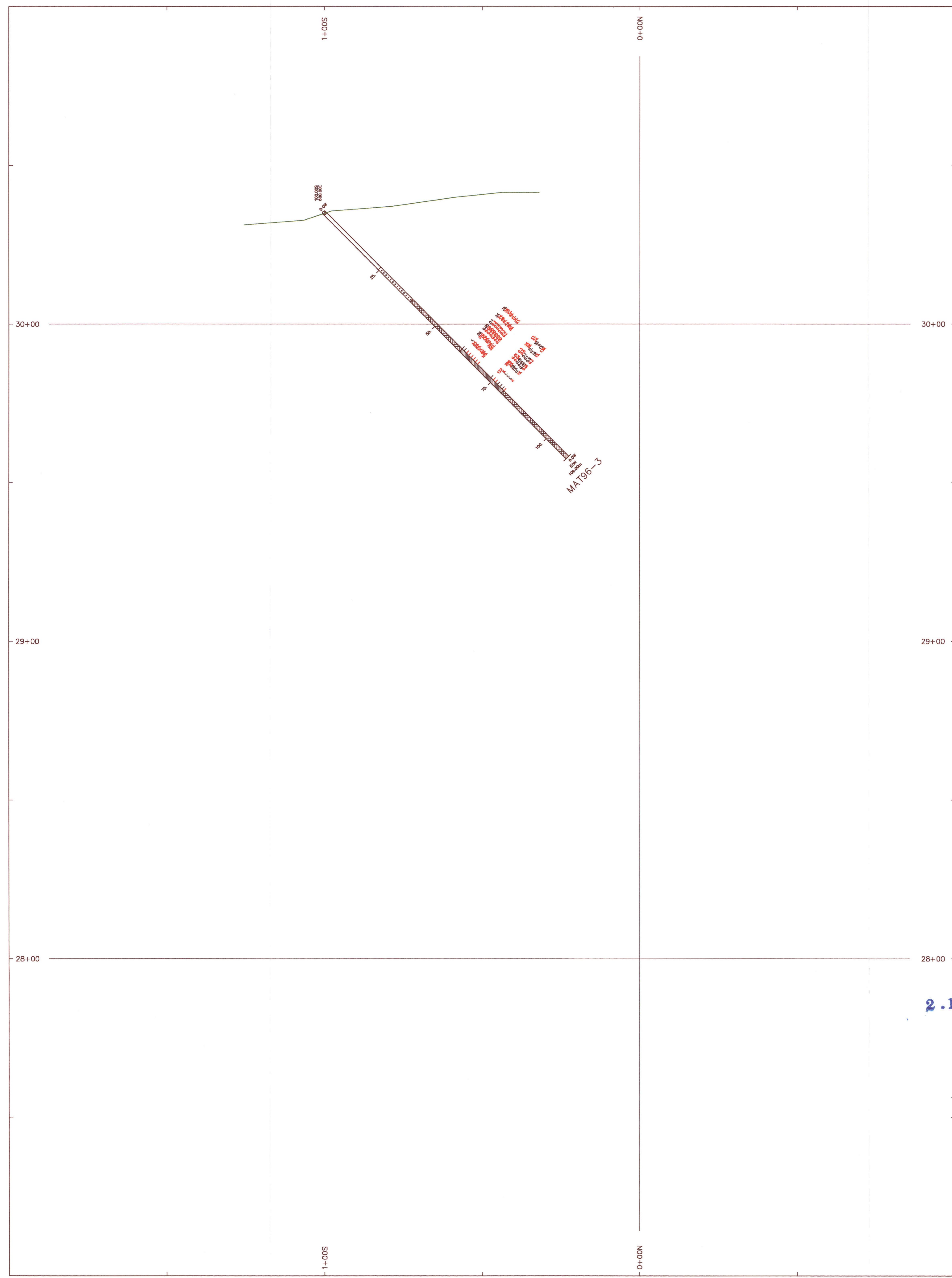
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DDH Section 4+05E

Looking West BY: BJM

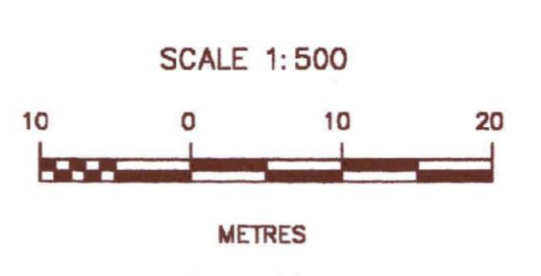
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LEGEND

- CAS CASING
- ROCK CODES
- BANDED IRON FORMATION
- MINERALIZED SECTION
- BANDED SILICA
- VEIN
- CALCITE VEIN
- PORPHYRY
- FELDSPAR PORPHYRY
- DIABASE
- DIORITE
- GABBRO
- DYKE
- DIORITE DYKE
- CHLORITE SCHIST
- TALC CHLORITE SCHIST
- TUFF
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- CONGLOMERATIC QUARTZITE
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- VOLCANICS
- INTERMEDIATE VOLCANICS
- TRANSITION ZONE
- HYBRID ZONE
- FAULT ZONE
- BRECCIA ZONE
- GROUND CORE
- NO CORE

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Opawica Explorations

Matarrow Project

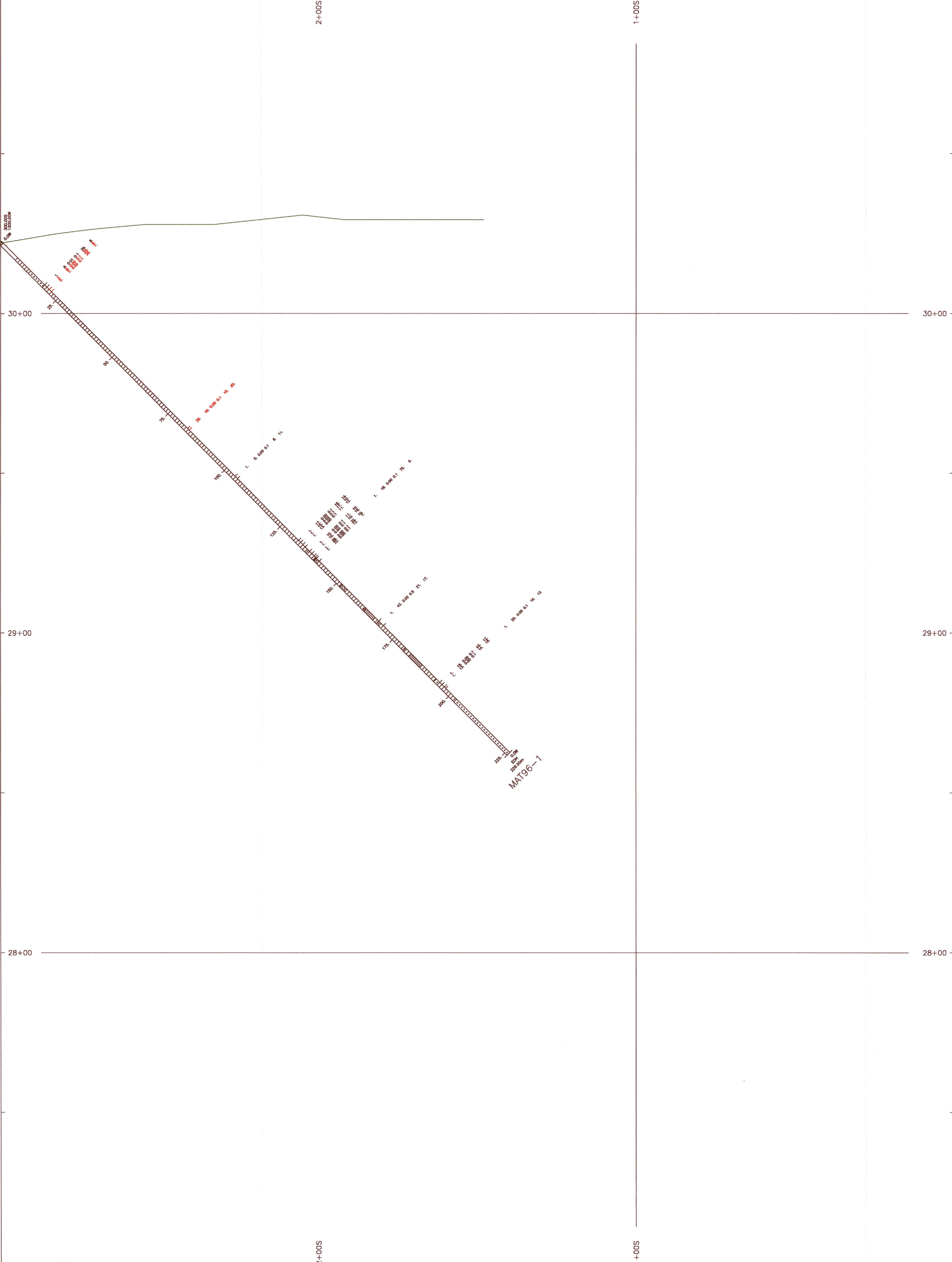
DDH Section 6+00E

Looking West

BY: BJM

Scale 1:500

DATE: Dec 96

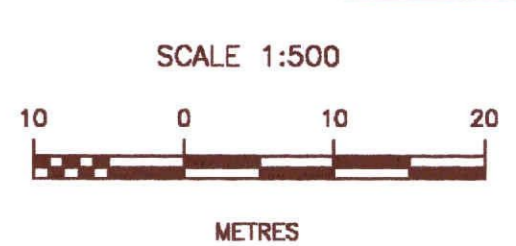


LEGEND

- CAS CASING
- ROCK CODES
- BANDED IRON FORMATION
- MINERALIZED SECTION
- BANDED SILICA
- VEIN
- CALCITE VEIN
- PORPHYRY
- FELDSPAR PORPHYRY
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- ULTRAMAFICS
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- HYBRID ZONE
- FAULT ZONE
- BRECCIA ZONE
- GROUND CORE
- NO CORE

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DDH Section 12+00W

Looking West BY: BJM
Scale 1:500 DATE: Dec 96