GM 32241

DIAMOND DRILL REPORT, HARRICANA RIVER PROJECT - WEST GROUP

Documents complémentaires

Additional Files



Licence

License

Cette première page a été ajoutée
au document et ne fait pas partie du
rapport tel que soumis par les auteurs.

Énergie et Ressources naturelles
Québec

MATTAGAMI LAKE MINES LIMITED

EXPLORATION DIVISION

DIAMOND DRILL REPORT

HARRICANA RIVER PROJECT

WEST GROUP.

MAY 1976.

Otto Zavesiczky, B.Sc.,
Geologist,
MATTAGAMI LAKE MINES LIMITED,
Exploration Division.

Ministère des Richesses Naturelles, Québec
SERVICE DE LA
DOCUMENTATION TECHNIQUE
Date: 1 NOV 1976
No GM: 32241

TABLE OF CONTENTS.

	Page
REFERENCES	III
PROPERTY DESCRIPTION	1
SUMMARY	2
LOCATION AND ACCESS	2
TOPOGRAPHY	3
PAST HISTORY	3
GEOLOGY	4
DESCRIPTION OF WORK PERFORMED	5
DISCUSSION OF RESULTS	5
CONCLUSIONS AND RECOMMENDATIONS	7
LOCATION MAP	8
LEGEND	9

MAPS:

Pocket 1: Diamond Drilling, Harricana River Project, West Group, Sheet 1, Scale: 1" = 200', Compilation.

Diamond Drilling, Harricana River Project, West Group, Sheet 2, Scale: 1" = 200', Compilation.

Pocket 2: Diamond Drilling, Harricana River Project, West Group, Sheet 3, Scale: 1" = 200', Compilation.

Diamond Drilling, Harricana River Project, West Group, Sheet 4, Scale: 1" = 200', Compilation.

Pocket 3: Grip Map.
Geophysical & Diamond Drilling Section.
Drill Log (Hole No. HW-76-1.

REFERENCES.

Nero. D., Report on Magnetometer Survey, Harricana Project, West Group, Mattagami Lake Mines Report, October 1975.

Remick, J.H., Geology of Harricana-Turgeon Area, Que., Dept. of Nat. Res., P.R. 564, 1969.

Vamos, P., Report on Electromagnetic Survey, Harricana Project: West Group, Mattagami Lake Mines Report, Feb. 1976.

Zavesiczky, O. Diamond Drill Report on Harricana Project: East Group, Mattagami Lake Mines Report, May 1976.

PROPERTY DESCRIPTION: Bescheffer Township (unsurveyed). County Abitibi W.

Licence	Claims	Acres	Expiry
344263	1-5 incl.	200 approx.	9 Aug. 1976
344264	"	"	8/9 Aug. 1976
344265	"	"	6/7 Aug. 1976
344266	"	"	7 Aug. 1976
344267	"	"	8 Aug. 1976
344268	"	"	10 Aug. 1976
344269	"	"	12 Aug. 1976
344270	"	"	5 Aug. 1976
344271	"	"	5/11 Aug. 1976
344272	"	"	11 Aug. 1976
344274	"	"	12 Aug. 1976
344275	"	"	12/13 Aug. 1976
	Total:	2,400 acres approx.	

.../2

SUMMARY.

Mattagami Lake Mines Exploration Ltd. staked this claim group along with another more easterly one in the summer of 1974 during the staking rush precipitated by Selco's copper-zinc discovery in Brouillan Township.

This group, the West Group, consists of 60 contiguous claims covering approximately 2400 acres. The subsequent geophysical surveying and assessment by Mattagami's personnel revealed only one favourable drill target. This target was drilled with one short hole in mid-February of 1976. The conductor proved to be attributable to both graphitic strata and to a 25' wide massive sulphide band consisting of pyrrhotite, pyrite and magnetite. All assay returns were negligible. The country rocks intersected consisted of interbedded mafic to intermediate volcanics and intermediate tuffs. In view of the results no further work can be recommended at this time.

LOCATION AND ACCESS.

The property is located in the south-west corner of Bescheffer Township, three miles southeast of Brouillan Lake. This location is approximately 55 miles west of Matagami, Quebec and approximately 5 miles to the southeast of the Selco discovery.

.../3

The claim group lies approximately 3.5 miles south of the Selco winter penetration road. The western portion of the grid is accessible by plane to Brouillan Lake and then by boat southeastward for three miles along the river which flows into the lake on the south. This river flows within 100 ft. of the western boundary of the property. The other parts of the property are best accessible by helicopter. (See location map).

TOPOGRAPHY.

The terrain for the most part is flat and swampy; only the western part of the property is relatively dry. Most of the claim group is traversed by numerous streams and creeks. Considerable portion of the region has been burned by previous forest fires. No outcrops were seen or have been reported in this area.

PAST HISTORY.

Both the files in the Val d'Or assessment office and the geological compilation by Remick (1969) indicate that no work was done on or near the property previously. However considerable geophysics and drilling has been done in the region by various companies since the staking rush.

.../4

Mattagami's previous work on the property consisted of line cutting, and magnetic and electromagnetic surveys. The line cutting was completed in the summer of 1975 by Alfred Jolly of Matagami, Quebec, on a contract basis. A total of 64.6 miles were cut and chained. The followup geophysics was done by Mattagami's own crews and was completed in early fall of 1975.

Three conductive bodies, besides some very short and very questionable conductors, were located in the surveys. However only one, W-3 was deemed as being a favourable drill target. The reader is referred to the geophysical section and to the compilation map in the appendix for the conductor description and also to previous company reports (Nero, 1975 and Vamos, 1976) for additional and more detailed data.

GEOLOGY.

The region is underlain by the western end of the Chibougamau-Matagami zone of steeply dipping and metamorphosed basic to intermediate volcanics and sedimentary rocks. This zone lies in the northern portion of the Abitibi Greenstone belt. These Keewatin-type volcanics have been intruded by various plutons of granite, gabbro and diorite. The predominant regional strike is East-West.

According to Remick's compilation the property has been interpretted as being underlain mostly by intermediate to basic volcanics. The contact between these volcanics and a granite pluton is believed to

.../5

occur in or close to the northern part of the claim group. The Selco discovery is situated just west of this same granitic location. The volcanics contact on the south with a long band of sedimentary rocks. This contact has been interpretted to occur less than one mile south of the property.

DESCRIPTION OF WORK PERFORMED.

The diamond drill contract was awarded to Benoit Diamond Drilling of Val d'Or, Quebec. One hole, HW-76-1, was drilled into conductor W-3 during the interval of February 14-18, 1976. It was collared on Line 88+00 East at 4+00 South (see grid map) and drilled at a bearing of 360° with a dip of -50°. All additional drill data are given in the drill logs and on the section found in the appendix.

Drill supervision and core logging was done by the writer. All assaying and analysing was done by the Assay Office at the Mattagami mine site.

DISCUSSION OF RESULTS.

The conductor was found to be attributable to both graphitic argillite and to massive sulphide mineralization. They did not occur together but as two distinct units separated by 100 feet of mafic volcanics. The former was located in the southern portion of the hole and consisted of laminated graphitic argillite. These strata were also

.../6

mineralized with pyrrhotite and pyrite. Locally up to 20% pyrrhotite were intersected over 5'. The sulphides occurred as interlaminar beds and in disseminated form. The true thickness of the unit was approximately 20' and it contacted with basalt on both sides.

The second more northerly conductive unit is approximately 25 feet thick and consists of up to 60% total sulphides set in a cherty matrix. The sulphides were comprised of equal amounts of pyrrhotite and pyrite and to a lesser amount magnetite. It was sampled and assayed for Cu, Zn, Au and Ag; all assay returns were negligible. This unit is very conductive and also highly magnetic thus explaining the associated magnetic anomaly. It contacted on the north with intermediate tuffs followed by dacite. The reader is referred to the drill logs and section located in the appendix for more detailed descriptions of the units and for the assay values.

The stratigraphy here was found to be dipping at approximately 35° to the south. Definite stratigraphic top determinations were impossible to make due to the very fine nature of the tuffs. However at one point the sorting tended to indicate tops to the south (?). The metamorphic grade was greenschist, typical of the Abitibi Greenstone Belt.

Very little correlation in regard to the regional geology can be done because so very little is known of the area. It would appear

.../7

that the sequence of rocks here were deposited in the quieter stages of volcanic activity. Owing to the lack of reliable top determination it is difficult to say whether this sequence preceeded or followed the very thick sedimentary cycle located to the south.

CONCLUSIONS AND RECOMMENDATIONS.

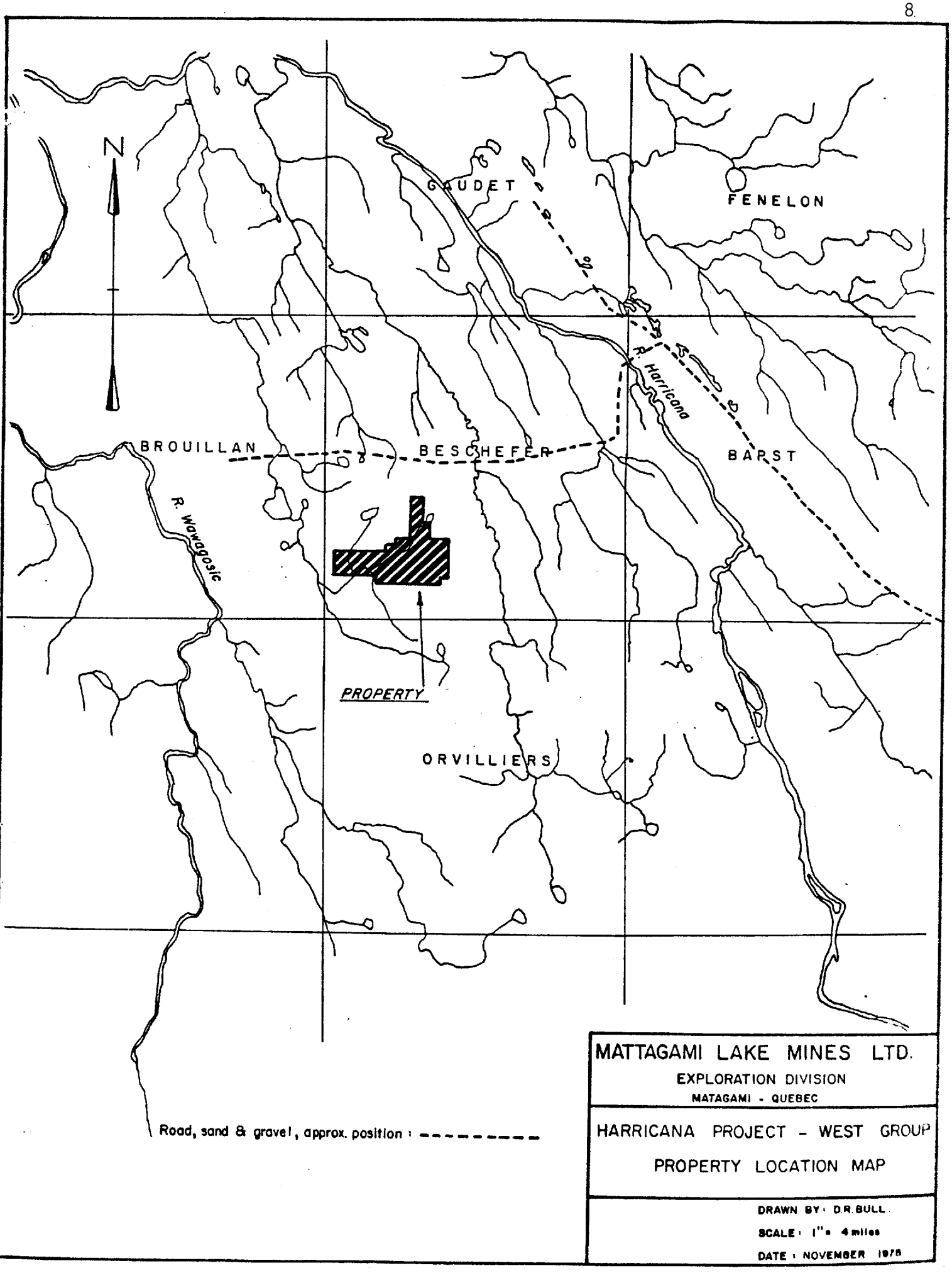
The drill results of this property are very unencouraging. The electromagnetic and magnetic anomalies were found to be attributable to both graphitic argillite and to massive sulphides consisting of pyrrhotite, pyrite and some magnetite. All assay returns for Cu, Zn, Au and Ag were negligible. These conductive strata were interbedded with mafic to intermediate volcanics and with intermediate tuffs.

In view of these findings in addition to the fact that no other favourable conductors were found, it is recommended that no further work be done on the property at this time. The property should be re-assessed in the future when other regional information becomes available.

Respectfully submitted,

OZ/ac

Otto Zavesiczky, B.Sc.,
Geologist,
Mattagami Lake Mines Limited,
Exploration Division.



MATTAGAMI LAKE MINES LTD.
EXPLORATION DIVISION
MATAGAMI - QUEBEC

HARRICANA PROJECT - WEST GROUP
PROPERTY LOCATION MAP

DRAWN BY : D.R. BULL
SCALE : 1" = 4 miles
DATE : NOVEMBER 1975

LEGEND

MAGNETOMETER SURVEY:

INSTRUMENT: McPHAR GP-70

OPERATOR: J. BUESNEL.

DATE : AUGUST 1975

MAG. CONTOUR : —— 1000 ——

HORIZONTAL LOOP SURVEY:

INSTRUMENT: GEONIC EM-17

OPERATORS: S. STEPHEN., M. COMEAU.

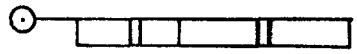
DATES: JULY - AUGUST 1975

COIL SEPARATION : 400'

FREQUENCY : 1600 Hz.

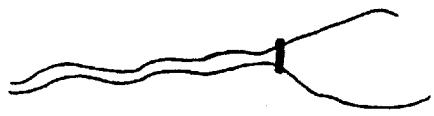
EM CONDUCTOR TRACE : •—•—•—•

GEOLOGY, BY O. ZAVESICZKY:

M.L.M. D.D. HOLE: 

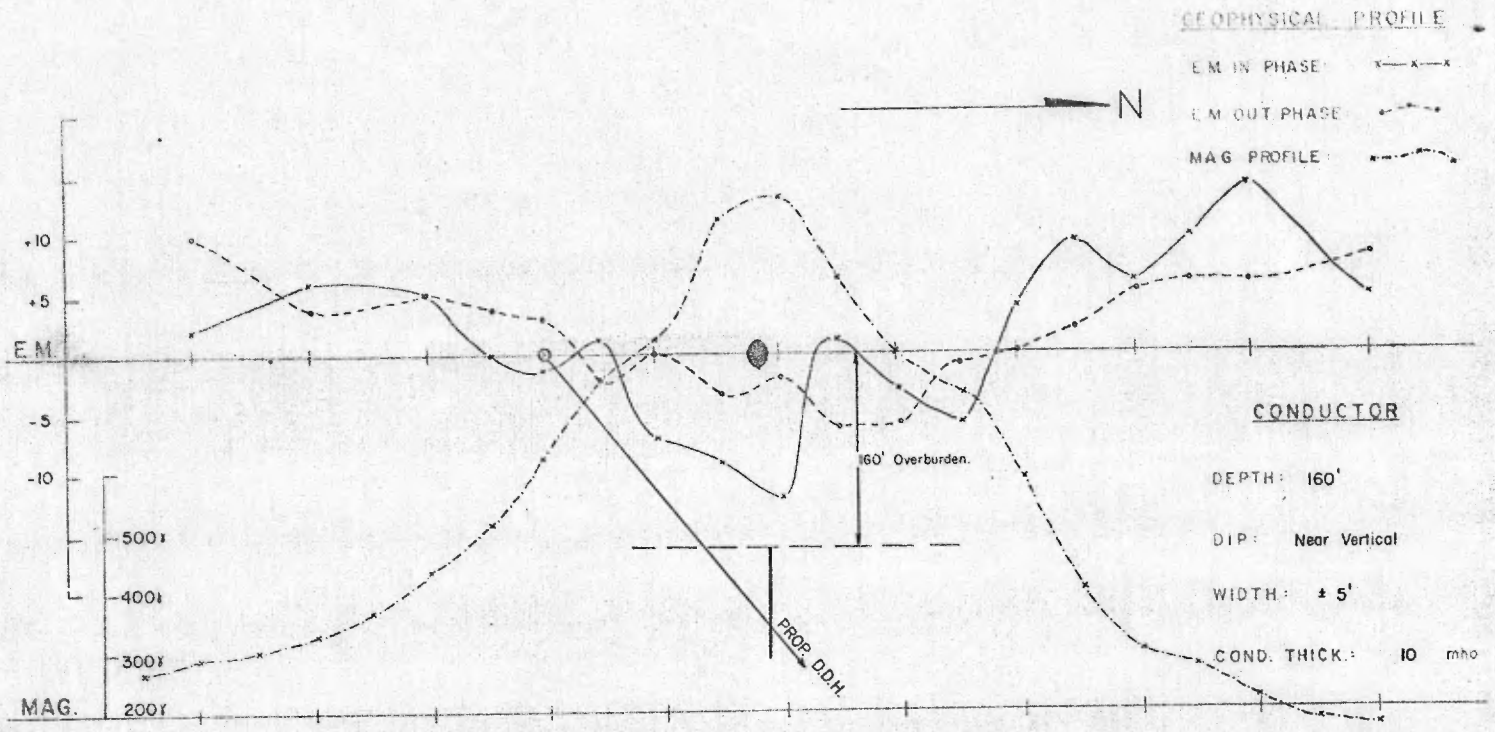
V4 : DACITE
V5 : ANDESITE
V6 : BASALT
V9 : FELSIC TUFFS
gr : GRAPHITIC ARGILLITE
py : PYRITE
po : PYRRHOTITE
mgnt : MAGNETITE

CLAIM POST : ⊡

CREEK, DAM & POND: 

SWAMP : ⋓

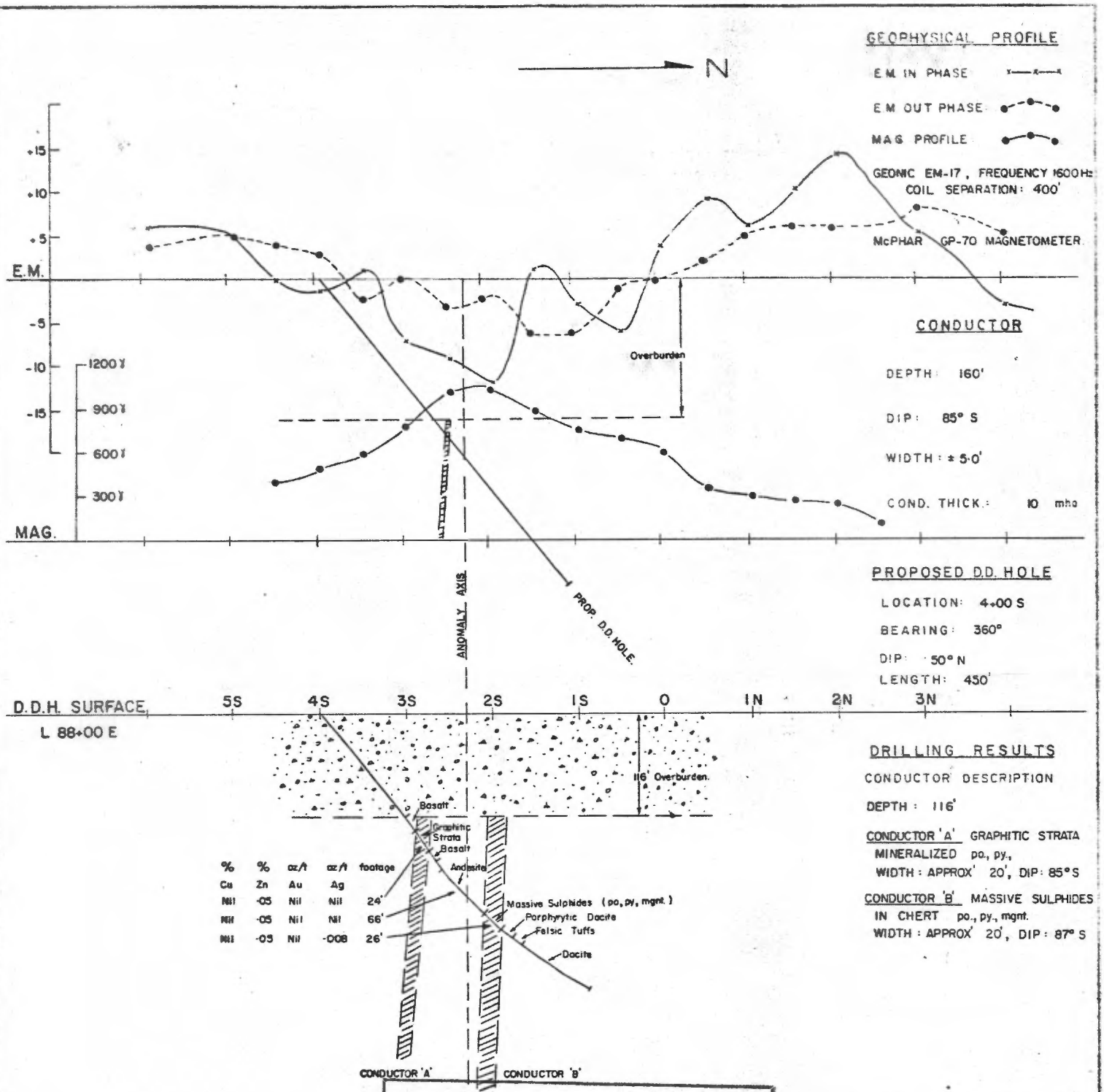
MATTAGAMI LAKE MINES LTD. EXPLORATION DIVISION MATAGAMI - QUEBEC
HARRICANA - WEST GROUP COMPILATION LEGEND
DRAWN: D.R.BULL. DATE : MAY 1976



Ministère des Richesses Naturelles, Québec
SERVICE DE LA
DOCUMENTATION TECHNIQUE
Date: 1 NOV 1976
No GM: 32241

AIRBORNE

MATTAGAMI LAKE MINES LTD.
EXPLORATION DIVISION
MATAGAMI - QUEBEC
PROJECT: HARRICANA WEST
ANOMALY: CONDUCTOR W-3
SECTION: L 88 E
D.D.H. No:
0 100 200
Scale of feet
DATE: FEBRUARY '76 DRAWN: D.P.BULL



Ministère des Richesses Naturelles, Québec
SERVICE DE LA
DOCUMENTATION TECHNIQUE
Date: 1 NOV 1976
No GM: 32241

AIRBORNE:

MATTAGAMI LAKE MINES LTD.
EXPLORATION DIVISION
MATAGAMI - QUEBEC

PROJECT: HARRICANA WEST GROUP
ANOMALY: COND W-3
SECTION: L 88+00 E
DD.H No: HW-76-1

0 100 200
scale of feet

DATE MARCH 1976 DRAWN: D.R.BULL

MATTAGAMI LAKE MINES LIMITED – EXPLORATION DIVISION – DIAMOND DRILL HOLE RECORD

PROPERTY	HARRICANA West	LATITUDE 4+00 South	STARTED February 14, 1976	DIP TEST Footage	Corrected	Footage	Corrected	Footage
HOLE NO.	HW-76-1	DEPARTURE L 88+00 East	FINISHED February 18, 1976	179.0'	54°	(Tests are possibly inaccurate since		
BEARING	360°	ELEVATION Surface	LENGTH 455.0'	298.0	42°	acid was not proper strenght)		
DIP-COLLAR	50°	SECTION	LOGGED BY Otto Zavesiczky	455.0'	28°			

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu	ASSAYS Zn	ASSAYS Au	ASSAYS Ag
0.0	152.0	OVERBURDEN (clay in upper half, sandy & boulder-laden in lower)									
152.0	160.0	LOST CORE (ground with bull nose).									
160.0	178.0	BASALT Green-black in colour, anhedral, soft due to chloritization, foliated of approx. 35° CA (Core Axis), well weathered near bedrock surface. 166.5-174.0 Sand Seam									
178.0	202.0	GRAPHITIC STRATA. Black in colour, fine grained, soft-medium in hardness, laminated with narrow, graphitic laminae alternating with felsic tuffaceous and/or argillaceous laminae, bedding at approximately 40° to CA, locally well silicified with small white quartz veinlets and swirls, electrically conductive locally.									
		178.0-183.0 interlaminar pyrrhotite & some associated pyrite	15% po 1% py	Exd. 3001	178.0	183.0	5.0	.01	.05	Nil	Nil
		183.0-188.0 pyrrhotite more abundant between laminae, bands are up to 2" wide locally, associated pyrite.	20% po 2% py	3002	183.0	188.0	5.0	Nil	.06	Nil	Nil
		188.0-190.5 cherty grayish-buff in colour, hard, fine grained, highly silicified by white quartz veinlets, well sheared at appro. 30° to CA, finely disseminated po & py.	1-2% po & py	3003	188.0	190.5	2.5	Nil	.03	Nil	Nil
		190.5-198.0 more tuffaceous in appearence, slightly graphitic, fine grained, very highly silicified by quartz veining at 30° to CA, slightly mineralized by py along quartz veining.	≤ 1% py	3004	190.5	198.0	7.5	Nil	.05	Nil	Nil
		198.0-202.0 black, slightly sheared, scattered py cubes & some po on shear planes	1% py & po	3005	198.0	202.0	4.0	Nil	.07	Nil	Nil
202.0	214.2	BASALT As above, also well sheared at approx., 30° to CA' Shears are filled quartz & with associated py & po, sharp upper contact at approx. 35° to CA.	3% py 2% po	3006	203.0	308.0	5.0	Nil	.03	Nil	Nil

Ministère des Richesses Naturelles, Québec
SERVICE DE LA
DOCUMENTATION TECHNIQUE
1 NOV 1976
Date:
No GM: 32241

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS Cu %	ASSAYS Zn %	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton
		208.0-213.0 Sulphides as above but more abundant.	4% py 3% po	3007	208.0	213.0	5.0	Nil	.03	Nil	Nil
214.2	216.5	QUARTZ PORPHYRY DYKE. Gray quartz phenocrysts up to 2 mm across, hard, matrix is aphanitic & soft due to chloritization & sericitization, contacts are sharp, approx. 30° to CA, lower of approx. 90° to CA.									
216.5	302.2	ANDESITE Green-gray in colour, aphanitic, medium in hardness, well sheared at approx. 30° to CA, shears filled with quartz and associated po & py, altered by chloritization.									
		225.0-226.0 po & py associated with quartz in shears, sulphide bands up to 3/4" wide.	4% po 1% py	3008	225.0	226.0	1.0	.01	.03	Nil	Nil
		239.0-244.0 as above.	4% po	3009	239.0	244.0	5.0	Nil	.12	Nil	Nil
		261.5-264.0 occurring as above but py is more abundant & becoming nodular.	1% py 5% py	3010	261.5	264.0	3.5	.02	.04	Nil	Nil
		257.5-269.0 as above.	10% py	3011	267.5	269.0	1.5	Nil	.02	Nil	Nil
		277.5-279.0 As above.	7% po 1% py	3012	277.5	279.0	1.5	Nil	.03	Nil	Nil
		289.5-291.0 As above	13% po 2% py	3013	289.5	291.0	1.5	Nil	.04	Nil	Nil
302.2	328.0	MASSIVE SULPHIDES IN CHERTY STRATA up to 60% sulphides consisting of po, py and magnetite in buff-coloured cherty matrix, matrix is aphanitic, & hard, and porphyritic containing minute magnetite phenocrysts intersected by occasional white quartz veins at 30° to CA, unit is highly magnetic & very conductive.	5% po 5% Mgnt.	3014	302.2	305.0	1.8	Nil	.03	Nil	Nil
			25% Po, 25% py 10% Mgnt	3015	305.0	309.0	4.0	Nil	.06	Nil	.008
				3016	309.0	314.0	5.0	Nil	.07	Nil	.009
				3017	314.0	319.0	5.0	Nil	.05	Nil	.008
		319.0-323.0 less mineralized	15% po, 15% py, 5% Mgnt.	3018	319.0	323.0	4.0	Nil	.04	Nil	.005
		323.0-325.5 Graphitic strata, black, anhedral, laminated as above, laminae at 50° to CA, slightly conductive.									
		325.5-328.0 cherty strata as above but only slightly mineralized.	5% po 5% Mgnt.	3019	325.5	328.0	2.5	Nil	.06	Nil	.002
328.0	331.0	TUFFS (intermediate ?) dark green in colour with buff streaks & beds, soft, highly chloritized & sericitized, clasts range up to lapilli size, poorly sorted, tops possibly to the south (?) buff coloured beds are possibly more felsic units, bedding at approx. 50° to CA.									

M.L.M. EXPLORATION DIVISION, D.D.H. RECORD

PROPERTY HARRICANA: WEST HOLE NO. HW-76-1 Page 3

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
331.0	347.6	PORPHYRITIC DACITE.						
		Grey in colour, aphanitic matrix, black quartz eyes up to 2 mm. across, medium in hardness, slightly sheared at 40° to CA.						
347.6	358.0	FELSIC TUFFS.						
		Dark grey in colour, fine grained, laminated at 50° to CA, medium in hardness, slightly graphitic, chloritized & sericitized.						
358.0	455.0	DACITE						
		Grey in colour with green tint, aphanitic, slightly sheared at approx., 60° to CA, moderately altered by chloritization & sericitization.						
		371.5-372.5 Felsic Tuffs as above.						
		455.0 END OF HOLE.						

Geochemical Analyses:

SAmple No.:	Cu	Zn	Mn	Ni	Fe	MgO	CaO	SiO_2	Na_2O	K_2O
3020	38	120	1155	67	7.5	3.3	1.5	47.7	1.8	.?
3021	44	85	3750	62	7.7	.9	9.3	33.0	.9	.?
3022	10	135	1490	60	11.1	2.0	.3	49.7	3.1	.1
3023	--	70	160	14	1.4	.3	.1	74.3	1.3	?.1
3024	30	120	1010	31	4.6	1.2	.3	52.4	2.6	1.4
3025	8	135	550	57	3.0	.7	--	1.9	1.9	