DIAMOND DRILLING REPORT

HOUSTON PROPERTY

RED AND CODE CLAIMS

RECORD NUMBERS: 315, 30321, 30328, 30327, 30318

OMINECA MINING DIVISION

NTS: 93L/3

127°00'W/54°08'N

OWNER: VITAL MINES LIMITED

OPERATOR: MATTAGAMI LAKE EXPLORATION LIMITED

AUTHOR: J. HELSEN

DATE: FEBRUARY 1982

ABSTRACT

Diamond drilling was continued on the Houston property as a consequence of results obtained during the 1980 drilling project. The area north of the canyon running through the property roughly in a west-east direction can be considered barren. The zone of low Pb-Zn-Ag mineralization as outlined by the 1980 DDH H-80-5, 6 and 8 was extended to the southeast and east by H-81-10 and H-81-15. Unfortunately mineralization drops off fast laterally to uneconomic levels.

THE DRILL CORE IS ON THE PROPERTY

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INTRODUCTION

This report deals with the diamond drilling on the RED and CODE claims of the Houston property. Diamond drilling was initiated in August 1980 and continued in 1981 on the basis of information gathered previously (Mercer, August 1981).

Collaring of the eight holes was carried out with a Longyear Super 38 drill by J.T. Thomas Drilling Company of Smithers, B.C. The drilling, including mobilization and demobilization, started on August 25 and was finished on September 8, 1981. A total of 3104 feet or 946 m NQ core were drilled in this period.

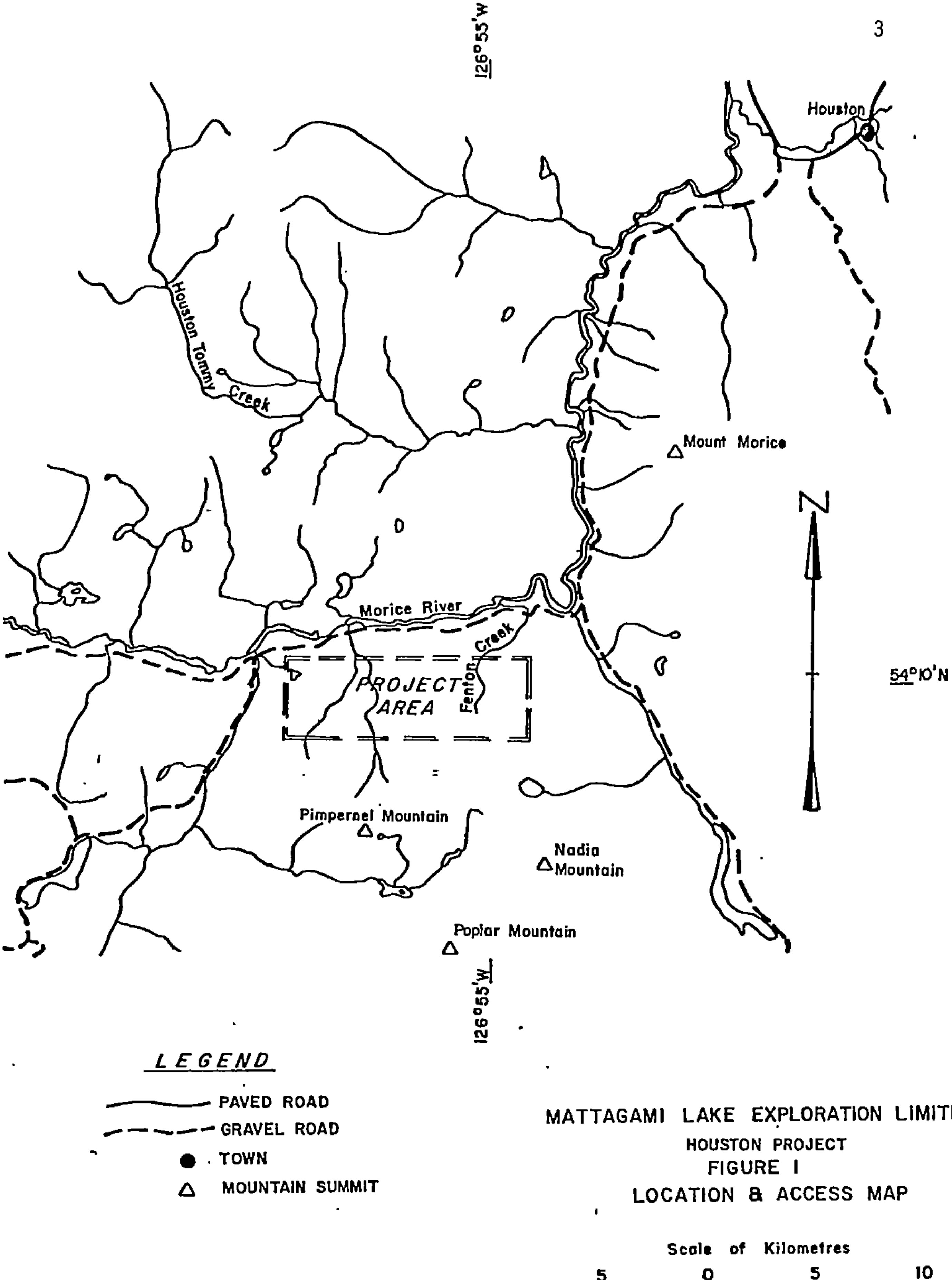
The crews were flown in by Northern Mountain Helicopters Inc. Engineering supervision was carried out by J. Helsen. Mike Jenner was hired temporarily as an assistant. He was replaced in September by Aaron Bradley after an industrial accident.

LOCATION AND ACCESS (Figure 1)

The RED and CODE claims of the Houston Project area are situated at about 35km southwest of Houston, B.C.

Access is possible via the Francois Lake and then the Morice River logging roads with the turn-off at the km 42 signpost towards Frypan Lake. The last 5km are in a very poor condition and only accessible with a 4x4 truck. This road, however, is the only one that leads to the general drill area. At the end of this road a heli-pad was built. The drill site is at about 1.5km and can be reached by walking or bulldozer only.

The average altitude of the property is 900m above sealevel. The area consists of steep to rolling hills. Figure 1 shows the location of the area of interest with regards to the nearest town.



MATTAGAMI LAKE EXPLORATION LIMITED

HOUSTON PROJECT

FIGURE I

LOCATION & ACCESS MAP

DRB 1/80

PROPERTY DEFINITION

A generalized view of the claims situation on the Houston property is shown in Figure 2. The 1981 drilling was carried out on the RED and CODE claims. Table 1 shows a breakdown of the holes with regards to the claims.

TABLE 1: Recording Data of Claims Drilled On

Hole	Claim	Date of Record	Record Number	Work Expiry Date
H-81- 9	RED	June 4, 1976	315	1985
H-81-10	CODE 7	June 8, 1965	30321	1983
H-81-11	RED	June 4, 1976	315	1985
H-81-12	RED	June 4, 1976	315	1985
H-81-13	RED	June 4, 1976	315	1985
H-81-14	CODE 15	June 8, 1965	30328	1983
H-81-15	CODE 14	June 8, 1965	30327	1983
H-81-16	CODE 5	June 8, 1965	30318	1983

The RED and RED 2 claims were grouped together in 1977. A second grouping was carried out on January 23, 1980 involving the RED, COF and FEN claims or fractions thereof.

A B.C. Government Assessment Report dealing with the results of H-81-12 was filed for the RED claim in December 1981.

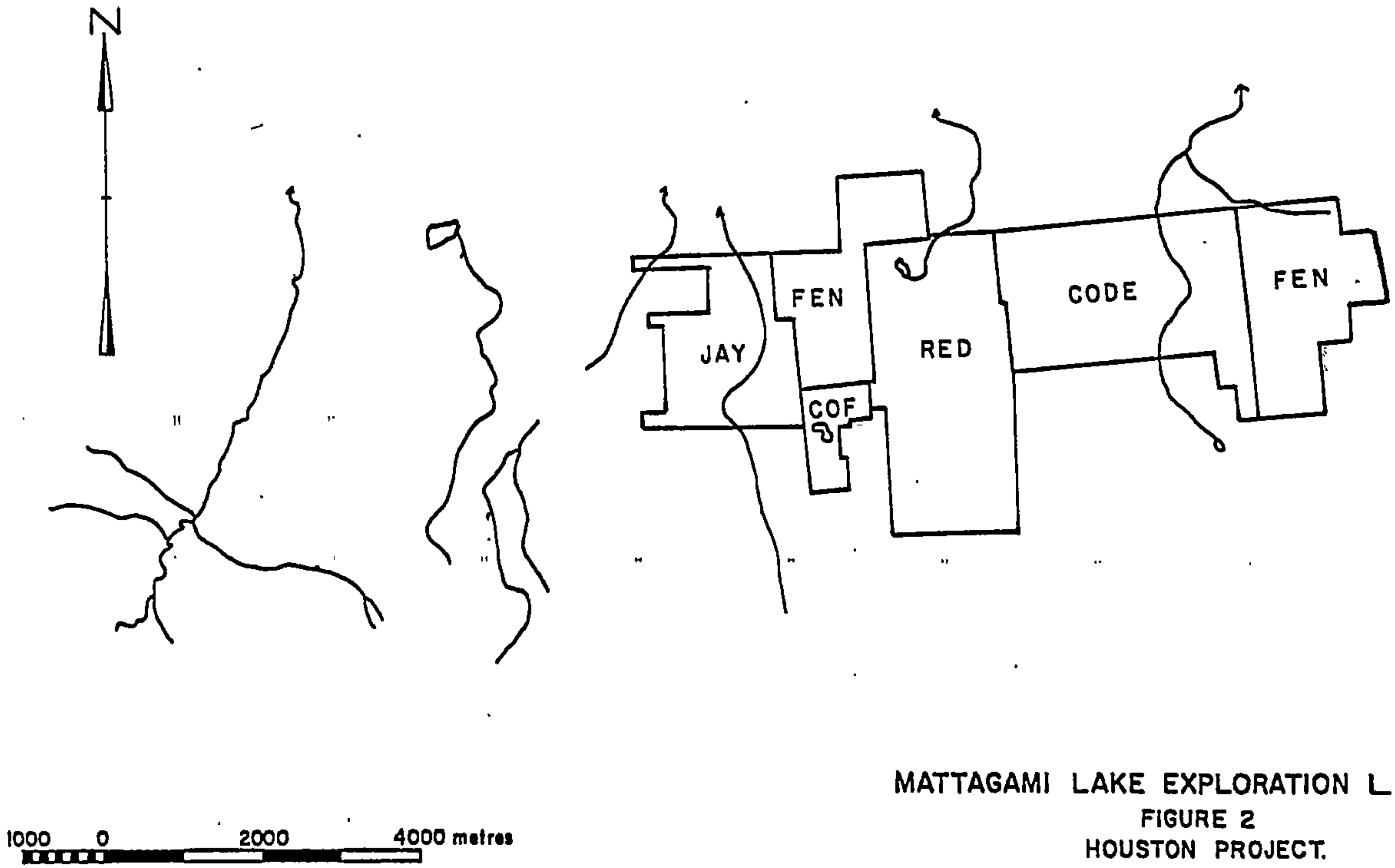
The RED claims are owned by Vital Mines Limited. The CODE claims are the property of Mattagami Lake Exploration Limited.

HISTORY

The first investigations of the property were carried out by Anaconda and Helicon after the discovery of anomalous stream sediments and a mineralized float boulder. No mineralization was obtained in pre-1980 drilling except in Anaconda (Helicon) Hole #9. One 5-foot intersection contained some sphalerite and galena.

The work carried out by Mattagami since 1977 includes I.P., Crone Shoot-back, Radem, VLF EM16R as well as soil surveys (Mercer and Sutherland, 1980). A very limited drill program carried out in 1978 to investigate I.P. anomalies on the JAY-2 claim did not encounter any mineralization.

A second drill program was carried out in September 1980 in the eastern part of the property (Mercer, 1981). Results from this drill program combined with existing airborne geophysics led to the drilling of the 1981 program.



MATTAGAMI LAKE EXPLORATION LIMITED
FIGURE 2
HOUSTON PROJECT.
CLAIM MAP

NTS: 93 L3E; 93 L2W

GEOLOGY

The geology on the Houston property has been dealt with on several occasions in previous reports. For this reason only the essential information i.e. the geological units of the project area, are summarized in Table 2. The only unit of concern is the Telkwa Formation of the Hazelton Group which has been described by Tipper. Both Tipper and Church agree with the name and location of this group and unit.

TABLE TWO: GEOLOGICAL UNITS

AGE \ AUTHOR		CHURCH B.C. Dept. of Mines GEM 1972		TIPPER Geological Survey of Canada Open File (1976) #351		
TERTIARY		Fenton Creek Volcanics	Rhyolite, tradyte breccia and lava			
		Buck Creek Volcanics	Fresh brown andesite	Eocene-Oligocene	Buck Creek Volcanics	
MESOZOIC	Upper	Tip-Top Volcanics	Dacite	Maetrich-tianeo-cene	Ootsa Lake Group	Rhyolite, dacite tuffs and breccia
		Sedimentary Rocks				
	Lower-Middle	Hazelton	Maroon, brown grey-green andesites	Hazelton Group Sinemur-ian=L. Pliens-bachian	Telkwa Formation	Red, maroon, grey-green breccia, tuffs flows of basalt to rhyolite

DIAMOND DRILLING

The diamond drilling was carried out by J.T. Thomas diamond drilling company with a Longyear Super 38 drill driven by a Magirus Deutz diesel engine. Two drill crews of two people each and a fieldman were involved.

The following holes were collared.

TABLE THREE: DIAMOND DRILL HOLE SUMMARY

Hole Number	Grid Location	Projected Depth (m)	Final Depth(m)	Target
H-81- 9	BL/1200N	125	126.5	Mise-à-la-masse anomaly
H-81-10	1190N/ 5E	125	141.7	Mise-à-la-masse anomaly
H-81-11	1500N/ 312.5W	100	100.6	CEM anomaly
H-81-12	1300N/ 525W	100	105.2	Airborne and CEM anomaly
H-81-13	1100N/ 325W	100	100.6	CEM and VLF anomaly
H-81-14	1475N/ 100E	125	132.3	I.P. anomaly
H-81-15	1425N/ 500E	125	138.7	I.P. anomaly
H-81-16	800N/ 150E	100	100.6	Zone A (VLF) and geochem anomaly
	TOTAL	900	946.2	

Recovery of the NQ core was very good (frequently 100%) exceeding generally 95%. Dip tests were taken after finishing holes H-81-10, H-81-14 and H-81-15. The corrected dip angle was estimated at about -48° in all three cases.

The location of the 1980 and 1981 holes is given in Figure 3.

GEOLOGY AND GEOCHEMISTRY OF THE DRILL HOLES

General Information

Before discussing the geology of the drill holes in particular, some general information touching in one way or another several aspects of the holes as a whole will be given below. These aspects or topics are as follows: firstly alteration and/or rock description, secondly veins and thirdly mineralization.

Alteration and Rock Description

A good understanding of the alteration picture is necessary in order to know whether the rocks have been leached and subsequently mineralized or the other way around. Evidence for both seems to exist.

Alteration in all holes was very strong. One of the important consequences is that an accurate description of the various rock types in many cases is very difficult. The alteration is believed to be hydrothermal in origin and to be multi-stage. Many aspects of field analysis lead to these conclusions. Some of these aspects are given below:

1) One stage of alteration leached the rock, eg. andesite, giving it a very bleached aspect in which the dark groundmass was totally altered to light grey clays. The next stage brought in chlorite darkening the wallrock along veinlets.

2) Most if not all feldspars have been altered to clay pseudomorphs. Difference in clay color may halp to determine to some extent the original composition of the feldspar i.e. a plagioclase is saussuritized (epidote and albite) whereas an orthoclase becomes white kaolinite. This difference was

used to put a label on the more felsic rocks.

3) Aligned K-feldspars(?) were used as a criterion for calling a rock trachytic.

4) One of the alteration pulses is believed to have brought in the disseminated pyrite along invisibly fine veinlets. There is good evidence for this assumption. Consequently, much of the pyrite is not truly disseminated.

5) Sphalerite and pyrite occasionally found in the core or rim of totally altered feldspars is another indication of hydrothermal activity pulses.

Rocks are volcanics with a range from andesites to rhyolites. In terms of grain size, they range from tuffs to lapilli tuffs to breccias and occasionally volcanic agglomerates. Volcanic layering occurs in a few sections but is not abundant. A few sections also show accretionary lapilli tuffs. The most abundant rocks however are breccias and lapilli tuffs indicating the proximity of a volcanic vent. The rocks are also believed to be subaerial in origin. They are generally poorly sorted.

Correlation between the various holes is difficult if not impossible because no specific marker horizon exists.

Mineralization

Only three ore minerals were recognized with certainty. These minerals are pyrite (py), galena (gal) and sphalerite (sph). A fourth mineral, silvery grey in color, occurs occasionally in small blebs or specks. These specks are too small for identification but the mineral involved may be arsenopyrite.

Pyrite: Occurs both as veinlets and disseminated. Sometimes the disseminated pyrite seems to increase near veins with pyrite. Some holes contain disseminated pyrite throughout; other holes lack disseminated pyrite but have a few more veins with pyrite.

Sphalerite: Occurs mainly in holes H-81-10 and H-81-15 in small veins with a maximum thickness not exceeding a few cm. A few specks of sphalerite were noticed as well in the core or the rim of feldspars now totally altered to clays (kaolinite presumably).

Galena: Occurs sometimes with sphalerite in small veins or veinlets.

Veins

The vein composition is varied. Quartz veins and calcite veins occur but are not preponderant. Chlorite plus clay veins seem to be most common. Mineralized veins (py±sph±gal) have been mentioned earlier. A particular relationship between the various veins has not been established, mainly because every hole is different in terms of lithology. Consequently, correlation is not feasible. The only two holes which show a similar type of rock are H-81-10 and H-81-15.

Geology of the Drill Holes

The drill hole logs are compiled in Appendix One.

H-81-9 (Figure 4)

The site for this hole was chosen mainly for a mise-à-la-masse anomaly. It encountered most types of volcanic rocks mentioned previously with a few sections of agglomerates and spherulites. Only pyrite mineralization was found. Pyrite occurs disseminated throughout the whole core, varying from less than 0.5% occasionally up to about 3%. Hole H-81-9 is considered barren.

H-81-10 (Figure 5)

This hole was also chosen for a mise-à-la-masse anomaly. It turned out to be the best mineralized hole of all the 1981 holes drilled.

It encountered the normal range of rocks, i.e. breccias, lapilli tuffs, etc. Some rhyolite with apparently very fresh biotites occur in deeper sections. Breccias seem less abundant here which may imply a more distal volcanic region. Some layering with different degrees of sorting also suggests this.

H-81-10 shows two parts in which mineralization occurs, i.e. roughly from 23m to 53m core depth (Samples H-81-10 #165 to #209) and from 96m to 123m core depth (samples H-81-10 #222 to #248). In these two core sections veins seem to concentrate. The veins consist of py±sph±gal. The biggest vein measures about 3.5cm width.

Because of the mineralization in the lower part of the hole the drilling was extended 50 ft. or about 15m beyond the proposed depth.

H-81-11 (Figure 6)

The site for this hole was chosen because of a CEM anomaly. It was drilled on the same site of the 1980 DDH-H-80-7 and H-80-7A which were abandoned. The lithologies consist of the common type of rocks mentioned earlier but also some trachytic volcanics.

Pyrite seems lacking throughout this hole except for the occasional speck or bleb. The hole is considered barren of mineralization.

H-81-12 (Figure 7)

The reason for this hole was an airborne and CEM anomaly now believed to have been caused by the very thick overburden, about 55m thick.

The lithology consists mainly of breccias. Disseminated pyrite is generally lacking and consequently the hole is barren. Interestingly enough however, oil or bitumen was found in a few breccia matrix voids.

The hole was extended because of the apparent presence of sphalerite in veinlets. On later examination however, these proved to be chlorite veinlets.

H-81-13 (Figure 8)

The reasons for this hole were a CEM and VLF anomaly.

The lithologies were made up by the normal range of altered volcanic rocks with possibly some rhyolite. Pyrite occurs in a few veinlets but the overall content is estimated at less than 1%. The hole is barren of economic mineralization.

H-81-14 (Figure 9)

The site for this hole was chosen because of an I.P. anomaly.

The hole seems more andesitic in aspect. Pyrite occurs as specks or veinlets. The overall content is less than 0.5%. The hole is barren of economic mineralization.

H-81-15 (Figure 10)

This hole was also chosen for an I.P. anomaly. It is very similar in rock type to H-81-10 although it contains more breccia. A few layered beds however, also occur.

No mineralization occurs in the upper part of the hole except for disseminated pyrite and pyrite in veinlets. The overall pyrite content is less than 0.5% but may increase to about 2% near veinlets with pyrite. Sphalerite mineralization in veins seems to start at about 105m of core depth and continues irregularly towards the bottom. For this reason the hole was continued for another 40 feet beyond the proposed depth.

H-81-16 (Figure 11)

Hole 16 was chosen for a VLF (Zone A) anomaly and a geochemical anomaly.

This hole shows more weathering and faulting than any of the other holes. No disseminated pyrite occurs, but in the upper part of the hole several veins thicker than in any other hole were noticed that contained limonite remnants of pyrite. These veins gradually disappear towards the bottom.

Geochemical Analyses of the Drill Holes

Only holes H-81-10 and H-81-15 showed some mineralization other than pyrite i.e. mainly sphalerite and to a lesser extent galena.

Table 4 shows the highest values in ppm recorded for a specific element.

TABLE 4: Maximum Assay for Zn, Pb, Cu, Ag in Drill Holes (in ppm, except Au in OPT)

Hole Number	Zn	Pb	Cu	Ag	Au	Mo
H-81- 9	188	122	274	3.4	0.0002	10
H-81-10	37,000	6,400	100	38.8	0.0002	ND*
H-81-11	112	36	94	4.8	0.0001	4
H-81-12	318	70	278	1.0	ND*	7
H-81-13	96	26	250	1.2	0.0006	13
H-81-14	620	278	274	2.2	0.0004	14
H-81-15	3,124	1,362	102	16.4	0.00036	11
H-81-16	110	26	270	0.6	0.0004	8

*ND - not detectable

A maximum value for Zn does not necessarily coincide with a maximum value for other elements within the same section.

All values have been plotted for hole H-81-10 and averaged values for hole H-81-15. No values, however were plotted on the other diamond drill sections because of the very low contents as exemplified by the average values for Hole H-81-10 in Table 5.

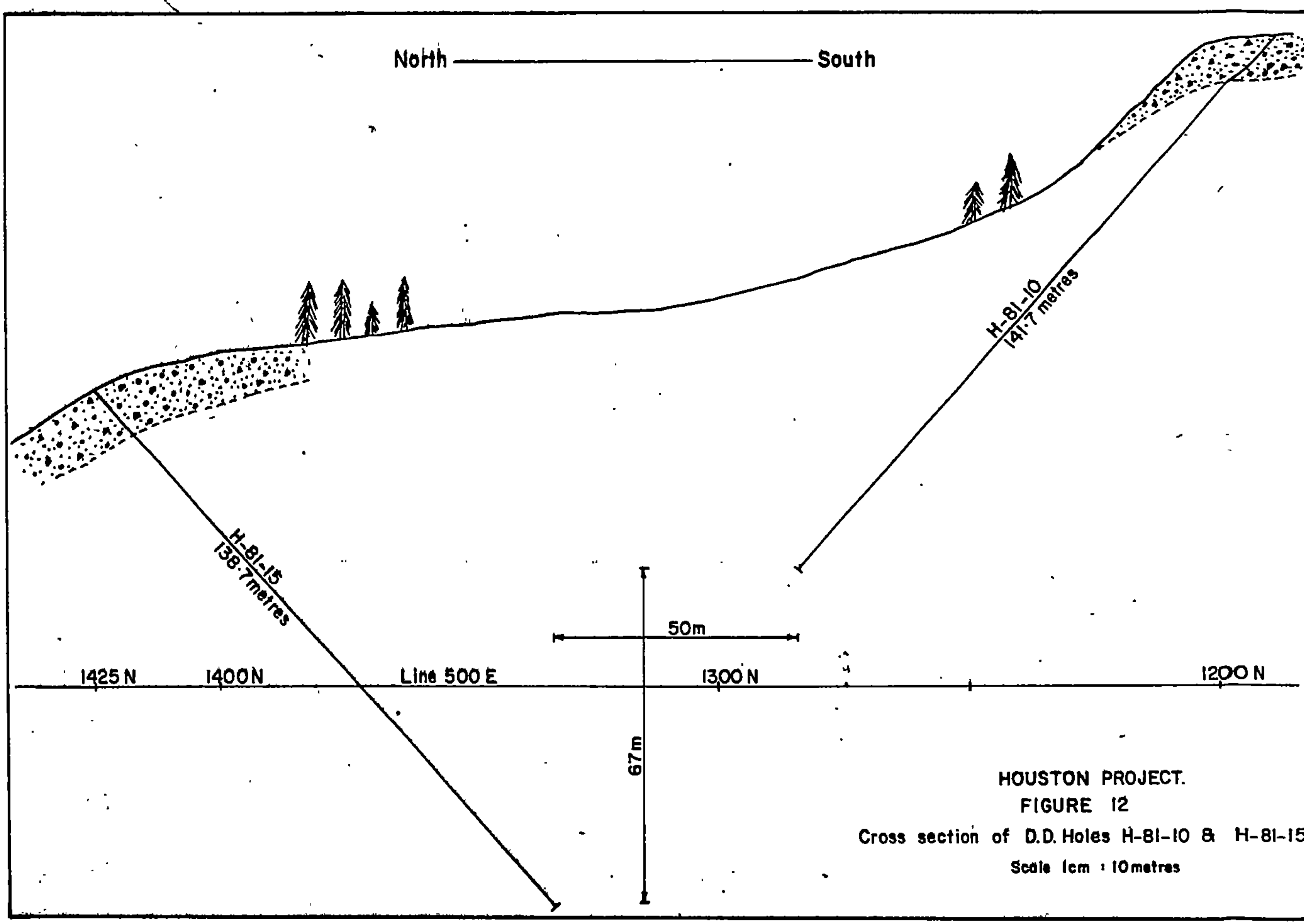
TABLE 5: Averaged values for sections with ≥0.1% Zn plus <0.1% Zn section on top and bottom.

Section	From (m)	To (m)	Length (m)	Zn (%)	Pb (%)	Zn+Pb (%)	Ag (ppm)	Au (OPT)
#165-#169	22.9	27.4	4.50	0.15	0.13	0.28	11.7	0.0023
#171-#176	28.2	32.0	3.80	0.11	0.08	0.19	6.1	<0.0001
#177-#180	32.0	35.1	3.10	0.12	0.10	0.22	7.3	
#182-#190	35.6	40.1	4.50	0.50	0.21	0.71	12.2	0.00054
#193-#197	41.1	43.6	2.50	0.40	0.21	0.61	11.0	0.00042
#200-#205	44.7	48.7	3.00	0.64	0.24	0.88	12.2	0.0004
#208-#211	51.8	56.4	4.60	0.11	0.07	0.18	5.4	<0.0001
#217	78.7	79.0	0.30	0.23	0.04	0.27	2.3	<0.0001
#218	79.3	79.4	0.10	0.03	0.026	0.056	1.3	<0.0001
#219	81.8	82.3	0.50	0.28	0.11	0.39	6.7	<0.0001
#220	82.9	83.0	0.10	0.04	0.025	0.07	0.12	<0.0001
#221	90.9	91.2	0.30	0.21	0.06	0.27	1.1	<0.0001
#222	96.0	96.3	0.30	1.11	0.04	1.15	1.6	0.0001
#223-#225	96.5	97.8	1.30	0.92	0.09	1.01	7.3	<0.0001
#231-#243	104.1	108.2	4.10	0.26	0.11	0.37	7.5	<0.0001
#244-#245	111.3	112.3	1.00	0.17	0.15	0.32	8.4	<0.0001
#246-#247	115.2	116.1	0.90	1.06	0.09	1.15	6.3	<0.0001
#248-#253	122.3	124.0	1.70	0.72	0.05	0.77	4.5	<0.0001
#254	124.5	124.9	0.40	0.36	0.06	0.42	3.4	0.0004
#255-#263	126.5	131.0	4.50	0.70	0.04	0.74	4.1	<0.0001
#264	134.1	134.4	0.30	0.46	0.05	0.51	2.8	<0.0001
#265	135.3	135.6	0.30	0.47	0.02	0.49	2.8	<0.0001
#266-#268	137.1	138.7	1.60	0.75	0.03	0.78	2.8	<0.0001
$\bar{x}$				0.39	0.11	0.50	7.7	

This table contains the averaged values for sections containing ≥0.1% Zn with a top and bottom section of <0.1% Zn added. The averaged values for all sections ignoring the gaps, gives 0.39% Zn, 0.11% Pb and 7.7 g/ton Ag. Such an approach assumes the gaps in between have similar amounts of mineralization as the analyzed core, which is unlikely. It is obvious that the best hole, H-81-10, has a mineralization for Zn which is roughly equivalent to the cut-off grade for Cu in a porphyry copper deposit. The tonnage certainly is not there and the price of Zn is roughly half the price of Cu.

Figure 12 shows the position of H-81-15 in relation to H-81-10. The two holes do not cross each other but H-81-15 goes about 67m deeper than H-81-10. The bottoms of the holes are 50m apart horizontally. The averaged values of hole H-81-15 (Figure 10) do not compare favourably with the averaged values of hole H-81-10 (Table 5). It is, however, more ambiguous to claim that the visual mineralization and assay values in Hole 15 drop. It does not give the impression, however, to improve with depth. It should be kept in mind that previous information (Mercer, Drill Report, Figure 3) showed that the veins tend to dip steeply rather than continue with a gentle dip into another hole. This may mean very generally, that mineralization diminishes towards the north.

The geochemical analyses of the drill core samples were carried out by Noranda Bell Copper Laboratories in Granisle, B.C. After digestion with a combination of acids the samples were measured by atomic absorption method.



HOUSTON PROJECT.
FIGURE 12
Cross section of D.D. Holes H-81-10 & H-81-15
Scale 1cm : 10 metres

CONCLUSIONS AND RECOMMENDATIONS

The conclusions of the above drilling are as follows:

1) All holes north of the little canyon (the depression running in a northeasterly direction on the south flank of Mineral Hill) are barren. These include holes H-81-11; H-81-12; H-81-13 and H-81-14.

2) H-81-9 just south of the canyon, as well as H-81-16 much more to the south are also barren.

3) The zone of low grade Pb-Zn-Ag as pinpointed by the 1980 drill program was extended to the southeast but the grades drop off fast to uneconomic levels.

The mineralization seems to be hydrothermal epigenetic in character related to the volcanism in the area. From alteration patterns in the rocks it is reasonable to assume that a lot of leaching may also have affected the rocks. It is difficult to place it in a time sequence i.e. prior to or after the Zn+Pb veining.

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TIPPER, H.W., 1963, Nechako River Map Area, G.S.C. Memoir 324, 59p.

CERTIFICATE

I, Jan Helsen, of the City of Edmonton, Province of Alberta, do hereby certify that:

1. I am a geologist residing at 7305 - 180th Street Edmonton.
2. I am a graduate of the University of Leuven, Belgium with a "Licenciaat in Geologie".
3. I am a graduate of McMaster University, Ontario, with a M.Sc. (1970) and a Ph.D. (1976) in geology.
4. I have been practicing my profession since 1976 and am at present Exploration Geologist with Mattagami Lake Exploration Limited.
5. I am a fellow of the Geological Association of Canada.
6. I supervised the work that is described in this report.

Dated: February 19, 1982

GEOLOGICAL ASSOCIATION OF CANADA · J. HELSEN · FELLOW ·

J. Helsen

CERTIFICATE

I, William Mercer, of the City of Edmonton, Province of Alberta, do hereby certify that:

1. I am a geologist residing at 6814 - 110 Street, Edmonton.
2. I am a graduate of Edinburgh University, Scotland, with a B.Sc. Hons (1968) in geology and McMaster University, Ontario, with a Ph.D. (1975) in geology.
3. I have been practicing my profession since 1974 and am at present Regional Manager for Mattagami Lake Exploration Limited in Edmonton.
4. I am a fellow of the Geological Association of Canada and a member of the Society of Economic Geologists and the Canadian Institute of Mining and Metallurgy.
5. I supervised the work that is described in this report.

GEOLOGICAL ASSOCIATION OF CANADA · W. MERCER · FELLOW

Dated: 19 February 1982

W. Mercer, Ph.D.

APPENDIX ONE

DIAMOND DRILL HOLE LOGS

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

PROPERTY HOUSTON	LATITUDE 1200N	STARTED August 25, 1981	DIP TEST
HOLE NO. H-81-09	DEPARTURE Baseline	FINISHED August 28, 1981	
BEARING 000°	ELEVATION	LENGTH 126.5m	
DIP-COLLAR -45°	CLAIM: RED	LOGGED BY J. Helsen	

Metres From	Metres To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Metres Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses in ppm, except Au in OPT					
0m	12.2m	OVERBURDEN											
12.2m	25.9m	AGGLOMERATE											
		Light grey bleached volcanic rock with spherulites. Rock becomes occasionally brecciated with darker grey material with sulphides, mainly pyrite but generally less than 1%. Both the dark and light grey volcanic material is frequently cut by hairlike cracks. Spherulites are up to 0.4cm diameter. Alteration is strong. Occasionally change to lapilli-tuffs.	py less than 1%										
		16.8 - 19.8m: increase in spherulites. At 18.2, 18.5 and 19.5 small clay zones (faults.)	Dis. py from less than 1% to 2%.	H-81-9-#1	19.0	19.8	0.8	34	30	144	0.4	<.0001	7
		19.8 - 22.9m: gradual transition into medium grey agglomerate with lapilli and dark veins with pyrite (disseminated and in veinlets). Vein density approximately 4 veinlets per NQ cross-section (approx. 18cm²).	py ± 4 to 5%	#2HS	19.8	21.3	1.5	42	20	72	0.4	<.0001	6
				#3	21.4	22.9	1.5	88	28	100	0.4	<.0001	6
		22.9 - 25.9m: same altered agglomerate with occasionally dull silverish sulphide(?) (very fine) in pods i.e. arsenopyrite(?), at 25.8m clay zone.	py ± 1% and silverish sulphide	#4*	22.9	24.0	1.1	46	20	52	0.2	.0001	7
25.9m	38.1m	LAPILLI TUFF											
		Lapilli tuffs with occasionally some layering and very minor silver colored sulphides(?). Rock is very altered but less altered fragments start appearing. Medium grey to green in color with altered feldspar phenocrysts.	py ±1% and very minor silver grey specks	#5HS									
		25.9 - 29.0m: veinlets do not decrease, pyrite content decreases.											
		29.0 - 32.0m: lapilli tuff occasionally becoming breccia, pyrite preferentially in lapilli	dis. py ±1% and very minor silver specks	#6	29.0	30.1	1.1	72	28	34	0.4	<.0001	4
				#7HS	30.1	31.6	1.5	52	18	240	0.4	.0001	6
				#8HS									
		32.0 - 35.1m: medium grey green lapilli tuff, pyrite decreasing. Hand specimen for silverish grey specks. Some feldspar altered to epidote.	Less than 5% dis. pyrite.	#9	32.0	33.1	1.1	40	18	274	0.4	.0001	4
				#10	33.1	35.05	1.95	44	18	228	0.4	.0001	6
		35.1 - 38.1m: small increase in hairlike veinlets and grey silver specks, sometimes blue specks.		#11	35.05	36.0	0.95	38	24	38	0.4	<.0001	8
				#12	36.0	38.1	2.1	42	20	236	0.4	.0001	9
38.1	47.1	BRECCIA											
		Medium grey volcanic breccia with mafic and felsic blocks with pyrite and a few silvery grey specks.		#13	38.1	41.2	3.1	70	20	22	0.8	<.0001	<2
		41.1 - 44.2m: pyrite decreasing drastically - some of blocks surrounded by chlorite rim.	dis. py ±1%	#14	41.2	44.2	2.0	78	18	14	1.0	<.0001	<2
		44.2 - 47.1m: pyrite and silver grey specks decreasing more.											

*Marked as #9, i.e. Interchange in lab between #4 and #9 is a possibility
HS = Hand Specimen

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

PROPERTY HOUSTON   HOLE NO. H-81-9

METRES From	METRES To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Metres Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses in ppm, except Au in OPT					
47.2	53.3m	ANDESITE(?)											
		Very altered. Medium to dark grey greenish andesite(?) with abundant feldspar phenocrysts.											
		47.2 - 50.3m: pyrite and silver specks drastically decreasing. Rock seems flooded with feldspars	Dis. py less than 0.1%	#15	47.2	50.3	3.1	78	22	16	1.0	<.0001	<2
		50.3 - 53.3m: andesite grading into breccia: abundant quartz(?) and feldspar flooding (veins and/or pervasive alteration).	Dis. py less than 1%										
53.3	68.6m	BRECCIA											
		Dark grey green breccia with blocks containing abundant feldspar phenocrysts with matrix of andesite(?) composition. Occasionally blocks disappear. Alteration i.e. flooding by quartz and feldspar veins initially seems very strong. Pyrite less than 1%, occasionally some arsenopyrite(?) and some veins with epidote.	Dis. py up to 1%	#16	53.3	56.4	3.1	72	30	32	0.6	.0001	4
		56.4 - 62.5m: andesite breccia to andesite volcanic containing veinlets with epidote, occasionally some arsenopyrite.	Dis. py up to 1%										
		62.5 - 65.5m: matrix becomes lighter grey - less arsenopyrite evidence for quartz and feldspar flooding. A few fine chlorite viens.		#17 HS	62.5	65.5	3.0	96	34	200	0.8	<.0001	2
		65.5 - 68.6m: gradual transition into lapilli tuff.											
68.6	74.7m	LAPILLI TUFF AND BRECCIA											
		Andesitic lapilli tuff abruptly changing into breccia with all types of fragments (rounded, angular, altered phenocrysts, argillite, etc.) Possibly flow top.											
		68.6 - 71.6m: andesite lapilli tuff with breccia at 70.1m. No veins, little pyrite, occasional abundant clay in fractures.											
		71.6 - 74.7m: Breccia changing into andesitic agglomerate with less foreign fragments - numerous tiny disseminated pyrite (less than 0.5%) quartz veins.											
74.7	80.8m	ANDESITIC TUFF											
		Light grey, very altered rock, occasionally chlorite veinlets and feldspar phenocrysts changed into clay gradually becoming more mafic again (less alteration?) and with increase in veinlets with quartz. Becoming breccia towards bottom.	Dis. py less than 0.5%.	#18 #19HS	74.7	77.7	3.0	90	16	22	0.8	<.0001	4
80.8	83.8m	ANDESITE(?) BRECCIA											
		Changes into very altered layered volcanic rock but mafic material seems to have disappeared. Some layering visible: feldspar phenocrysts are very clayey. A few darker bands (chlorite?) occur layered or along some joints suggesting chlorite flooding. Hydrothermal alteration very strong and in several episodes.	Dis. py much less than 0.5%	#20HS									

Metres From	Metres To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses in ppm. except Au in OPT					
83.8	120.4	ANDESITE TUFF											
		Very altered andesitic tuff with changing patterns in alteration (saussuritization, kaolinization). Pyrite mineralization is very minor and seems to have been brought in by small veins of chlorite. Andesite occasionally becomes very porphyritic.											
		83.8 - 86.9m: very altered tuff with tiny chlorite veins with occasionally pyrite in pockets in veinlets.		#21	83.8	86.9	3.1	120	20	34	1.4	.0002	4
		86.9 - 89.9m: alteration of feldspar phenocrysts is less white, i.e. more creamy beige (saussitirization: albite + epidote). Saussuritization occurs only in certain feldspar.	Pyrite less than 0.5%	#22	86.9	88.4	1.5	182	122	44	2.6	.0001	6
				#23	88.4	89.6	1.2	102	14	50	1.6	<.0001	8
		89.9 - 93.0m: less feldspar phenocrysts, saussuritized, occasional thin quartz veins. Pyrite occasionally in clusters of feldspar phenocrysts.		#24	89.9	93.0	3.1	98	24	44	3.4	.0001	8
		93.0 - 96.1m: tuff becoming more porphyritic, pyrite not abundant and only in veinlets.	Pyrite less than 1%	#25	93.0	96.1	3.1	100	36	40	2.8	<.0001	10
		96.1 - 105.2m: very altered and andesitic(?) tuff. K-feldspars(?) altered to kaolinite(?) and plagioclase(?) to saussurite(?).	Pyrite less than 0.5%										
		105.2-110.1m: same observations as above, but seeming increase in quartz and chlorite veinlets. At 107.5 calcite vein but no mineralization.											
		110.1-117.4m: same altered andesitic(?) tuff occasionally becoming darker (less alteration(?) or more chlorite alteration). Very little pyrite related to veinlets, not disseminated.	Pyrite less than 0.5%										
		117.4-120.4m: same rock gradually changing into porphyritic andesite(?) breccia. Pyrite seems to increase slightly.		#26	118.9	120.5	1.6	146	68	24	1.6	.0001	6
120.4	126.5	BRECCIA											
		Breccia with intense alteration bringing in some pyrite.											
		120.4-123.4m: Some of the blocks are rounded, intensely altered, even in core.	Pyrite 3-4%	#27	120.4	123.4	3.0	184	94	20	1.4	.0002	6
		123.4-126.5m: breccia with disseminated(?) pyrite probably due to intense alteration (i.e. dense veining). Less brecciation towards end of hole.	Pyrite 1%	#28	123.4	126.5	2.9	188	88	26	1.8	.0001	6
	126.5	END OF HOLE											

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

PROPERTY	HOUSTON	LATITUDE	1190N	STARTED	September 5, 1981
HOLE NO.	H-81-10	DEPARTURE	5E	FINISHED	September 6, 1981
BEARING	000°	ELEVATION		LENGTH	141.7m (465 feet)
DIP-COLLAR	-45°	CLAIM: CODE 7		LOGGED BY	J. Helsen

DIP TEST					
Metres	Corrected		Corrected		Corrected
141.7m	-48°				

METRES From	METRES To	DESCRIPTION	% Mineralization
0	12.2	OVERBURDEN	
12.2	19.8m	MEDIUM GREY LAPILLI TUFF Medium grey lapilli tuff with occasional block but not breccia yet. Rock is very altered i.e. feldspar phenocrysts totally altered to kaolinite and/or clays - strong chloritization of groundmass. Accretionary lapilli increase towards bottom of section (#163). 14.85m: clay zone - fault 16.60m: clay zone - fault	Dis. pyrite less than 0.5%
19.8	32.0m	MIXED VOLCANICS Lapilli tuffs alternating with accretionary lapilli and/or breccias. (Some breccias show beds). Very altered grey green andesitic(?) tuffs. 20.3-21.8m: clayey broken fault zone 24.2, 24.3 and between 24.8 and 24.9m: several small veinlets with sphalerite 28.4m: 0.5cm wide vein with pyrite and sphalerite. 29.3m: small clayey zone (fault) 30.0: 0.2cm wide vein with pyrite 30.7m: 0.2cm wide vein with pyrite, sphalerite and galena	Dis. pyrite less than 0.5% Dis. pyrite less than 0.5%
32.0	35.1m	VOLCANIC BRECCIA Breccia with small section of bedded tuffs underlain by 5cm thick accretionary lapilli tuff. 0.3cm wide vein in bedded tuff with pyrite, sphalerite and galena. A few tiny veinlets with py+sph+gal between.	Pyrite, sphalerite and galena
35.1	47.2m	LAPILLI TUFFS Very altered lapilli tuff with several small veinlets with pyrite and sphalerite. 35.1 - 38.1m: a few veinlets with pyrite and sphalerite. 38.1 - 41.1m: same altered lapilli tuff with big (3.5cm wide) vein with pyrite, sphalerite and galena at 39.45m. 42.2: 1cm wide vein with pyrite, sphalerite and galena. 45.6, 45.7 and 46.2 - 46.4m: veinlets of pyrite.	Dis. pyrite ≈ 1% Dis. pyrite ≈ 2-3% Dis. pyrite ~ 2% Dis. pyrite ~ 2%

SAMPLE NO.	Metres From	Metres To	Length	Zn (%)	Pb (%)	Cu (ppm)	Ag (ppm)	Au OPT
#163HS								
164 HS	22.1	22.3	0.2					
165	22.9	23.7	0.8	0.11	0.008	20	5.6	.0015
166	23.7	24.3	0.6	0.30	0.27	48	30.2	.0020
167	24.3	25.1	0.8	0.29	0.35	36	26.0	.0012
168	25.1	25.9	0.8	0.16	0.11	20	6.8	.0080
169	25.9	27.4	1.5	0.04	0.02	24	2.6	.0004
170	27.4	28.2	0.8	0.08	0.04	18	8.2	<.0001
171	28.2	28.6	0.4	0.05	0.03	16	2.8	<.0001
172	28.6	29.0	0.4	0.22	0.21	30	16.0	<.0001
173	29.0	29.8	0.8	0.06	0.03	26	3.0	.0001
174	29.8	30.3	0.5	0.16	0.13	26	9.0	.0002
175	30.3	30.8	0.5	0.24	0.18	28	11.6	.0001
176	30.8	32.0	1.2	0.04	0.03	18	2.6	<.0001
177	32.0	32.8	0.8	0.08	0.07	26	5.2	<.0001
178	32.8	33.4	0.6	0.29	0.26	40	18.8	<.0001
179	33.4	34.0	0.6	0.13	0.09	20	6.2	<.0001
180	34.0	35.1	1.1	0.04	0.05	28	3.0	.0003
181	35.0	35.6	0.6	0.02	0.02	14	1.8	.0002
182	35.6	36.0	0.4	0.03	0.03	16	2.2	.0003
183	36.0	36.6	0.6	0.47	0.20	26	9.8	.0009
184	36.6	37.0	0.4	0.54	0.19	36	13.2	.0008
185	37.0	37.6	0.6	0.46	0.19	28	9.8	.0009
186	37.6	38.1	0.5	0.08	0.06	16	3.6	.0003
187	38.1	38.6	0.5	0.15	0.13	16	6.6	.0002
188	38.6	39.1	0.5	0.29	0.24	22	12.4	.0003
189	39.1	39.6	0.5	2.04	0.53	92	38.8	.0006
190	39.6	40.1	0.5	0.35	0.23	24	11.0	.0002
191	40.1	40.6	0.5	0.06	0.04	16	2.6	.0001
192	40.6	41.1	0.5	0.04	0.02	18	2.0	.0002
193	41.1	41.6	0.5	0.05	0.03	14	2.2	.0001
194	41.6	42.1	0.5	0.23	0.17	20	9.2	.0003
195	42.1	42.6	0.5	1.40	0.64	58	33.2	.0010
196	42.6	43.1	0.5	0.23	0.13	20	6.6	.0004
197	43.1	43.6	0.5	0.08	0.07	20	4.0	.0003
198	43.6	44.2	0.6	0.09	0.05	20	3.2	.0003
199	44.2	44.7	0.5	0.09	0.05	20	2.8	.0013
200	44.7	45.2	0.5	0.10	0.09	20	4.2	.0005
201	45.2	45.8	0.6	0.70	0.28	36	13.6	.0003
202	45.8	46.5	0.7	0.68	0.29	40	13.8	.0006
203	46.5	46.7	0.2	0.17	0.10	26	6.0	.0002
204	46.7	47.3	0.6	1.50	0.48	68	24.4	.0003

Metres From	Metres To	Description	% Mineralization
47.2	56.4m	DACITIC VOLCANICS Extremely altered volcanic rock. Groundmass no longer chloritic in composition but more clayey. Original composition may have been more felsic than andesite, hence dacitic. Frequent hairlike veinlets with pyrite and chlorite on sphalerite(?). 53.0m: 0.3cm wide vein with pyrite and sphalerite. Gradual change into more mafic rock.	Dis. pyrite = 1%
56.4	59.4m	ANDESITE LAPILLI TUFF Medium to dark grey green andesite(?) lapilli tuff. Feldspars change with light buff alteration color - occasionally accretionary lapilli. Gradual change into more felsic rock.	Dis. and veinlet pyrite up to 1%
59.4	78.1m	BIOTITE RHYOLITE Medium to light grey matrix of feldspars and quartz(?). Phenocrysts of unaltered biotite and altered K-feldspar. No mineralization visible. Occasional hornblende(?). Groundmass seems to have undergone strong alteration which shows up by darkening of groundmass (pervasive alteration) caused by veins. Some limey green coating (not Cu) occasionally occurs.	
78.1	80.8m	LAPILLI TUFF Andesitic to lapilli tuff with pods of chlorite. Small pyrite vein at 78.9m.	
80.8	126.5m	MIXED VOLCANICS Frequent alteration of various volcanic rocks hwich include medium grey lapilli tuff, occasionally bedded, abundant accretionary lapilli and breccias. Towards the bottom the lapilli tuffs go over into breccia. 81.7m: pyrite and chlorite veinlet 83.8 - 86.9m: some coarsely bedded tuffs overlying fine-grained accretionary lapilli tuff. 86.9 - 89.9m: a few thin chlorite veins. 91.0m: veinlet with pyrite and sphalerite(?) 96.2m: veinlet with pyrite and sphalerite and galena(?) 91.1 -102.1m: No other mineralization than disseminated pyrite between 99.1 and 102.1m. 102.1-105.2m: No other mineralization than disseminated pyrite. 105.2-108.2m: Five veinlets (0.2 to 0.5cm) with unidentifiable mineralization. The 0.5cm wide veinlet occurs at 105.6m. 108.2-114.3m: Accretionary lapilli becomes more frequent. No visible mineralization except pyrite. 114.3-120.4m: Accretionary lapilli and lapilli tuffs with occasional blocks. A few veinlets with sphalerite and clay. 115.9m: A set of veinlets with chlorite and clay and sphalerite(?) 120.4-126.5m: Lapilli tuffs become coarser, accretionary lapilli less abundant. A few veinlets between 122.6 and 123.4. Veinlets contain pyrite and sphalerite(?). 123.55m: 5cm wide vein with pyrite+sphalerite(?)+chlorite+clay	Dis. py < 1%. Dis. py ≤ 1% Dis. py = 1-2% Dis. py = 1% Dis. py = 1% Dis. py ~ 1%

Sample No.	Metres From	Metres To	Length	Zn(%)	Pb(%)	Cu(ppm)	Ag(ppm)	Au OPT
#205	47.2	48.7	1.5	0.02	0.004	24	0.6	<.0001
#206	48.7	50.2	0.5	0.004	0.002	22	0.6	<.0001
#207	50.2	51.8	1.6	0.002	0.002	18	0.6	<.0001
#208	51.8	52.3	0.5	0.01	0.008	22	1.0	<.0001
#209	53.2	53.3	0.1	0.80	0.48	28	22.2	<.0001
#210	53.3	54.8	1.5	0.22	0.16	40	8.0	.0002
#211	54.8	56.4	1.6	0.04	0.02	40	4.0	<.0001
#212HS								
#213	59.4	60.4	1.0	0.008	0.002	20	0.8	<.0001
#214HS				0.09	0.01	20	1.4	<.0001
#215	76.9	77.8	0.9	0.03	0.002	20	1.0	<.0001
#216	77.8	78.1	0.3	0,03	0.002	20	1.2	<.0001
#217	78.7	79.0	0.3	0.78	0.12	40	7.8	<.0001
#218	79.3	79.4	0.1	0.32	0.26	20	13.0	.0002
#219	81.8	82.3	0.5	0.56	0.22	40	13.4	.0001
#220	82.9	83.0	0.1	0.43	0.25	40	12.0	.0001
#221	90.9	91.2	0.3	0.69	0.08	40	3.6	<.0001
#222	96.0	96.3	0.3	3.70	0.12	100	5.4	.0003
#223	96.5	97.0	0.5	0.45	0.04	40	12.0	<.0001
#224	97.0	97.5	0.5	0.20	0.09	40	6.0	<.0001
#225	97.5	97.8	0.3	2.90	0.16	100	1.4	<.0001
#226	101.1	102.1	1.0	0.18	0.12	60	3.0	<.0001
#227	102.1	102.6	0.5	0.03	0.01	20	3.2	<.0001
#228	102.6	103.1	0.5	0.04	0.03	40	3.2	.0001
#229	103.1	103.6	0.5	0.04	0.02	20	3.0	<.0001
#230	103.6	104.1	0.5	0.05	0.02	40	6.2	<.0001
#231	104.1	104.6	0.5	0.05	0.03	20	3.0	<.0001
#232****	104.6	105.2	0.6	0.20	0.08	20	7.8	.0001
#238	105.2	105.7	0.5	0.51	0.17	20	9.8	<.0001
#239	105.7	106.2	0.5	0.39	0.16	40	10.0	<.0001
#240	106.2	106.7	0.5	0.05	0.03	20	2.8	.0001
#241	106.7	107.2	0.5	0.18	0.08	20	5.8	.0001
#242	107.2	107.7	0.5	0.48	0.10	40	8.2	.0006
#243	107.7	108.2	0.5	0.27	0.26	20	12.2	.0003
#244	111.3	111.8	0.5	0.20	0.18	40	10.2	.0002
#245	111.8	112.3	0.5	0.14	0.11	20	6.6	<.0001
#246	115.2	115.7	0.5	0.34	0.13	20	7.6	.0001
#247	115.7	116.1	0.4	1.95	0.04	40	4.6	.0001
#248	122.3	122.6	0.3	0.36	0.03	20	3.4	.0001
#249	122.6	122.9	0.3	0.51	0.03	20	2.4	<.0001
#250	122.9	123.2	0.3	0.40	0.01	40	2.0	<.0001
#251	123.2	123.4	0.2	0.40	0.02	20	2.4	<.0001
#252	123.4	123.7	0.3	2.10	0.12	60	9.0	.0003
#253	123.7	124.0	0.3	0.46	0.08	20	6.8	.0002
#254	124.5	124.9	0.4	0.36	0.06	20	1.4	[illegible]

METRES From	METRES To	DESCRIPTION	% Mineralization
126.5	132.6m	BRECCIA	
		Several small veinlets with pyrite and sphalerite(?) in upper 3/4 of section.	
132.6	141.7m	LAPILLI TUFFS	
		Lapilli tuffs alternating occasionally with coarser volcanics up to breccia (not predominant). Occasionally fine bedding visible. No other visible disseminated or vein mineralization except for pyrite.	Dis. py ≤ 1%

SAMPLE NO.	Metres From	Metres To	Length	Zn (%)	Pb (%)	Cu (ppm)	Ag (ppm)	Au OPT
#255	126.5	127.0	0.5	0.34	0.02	20	2.6	.0001
#256	127.0	127.5	0.5	0.39	0.02	20	1.4	.0002
#257	127.5	128.0	0.5	0.38	0.02	20	1.6	.0004
#258	128.0	128.5	0.5	0.38	0.02	20	2.4	<.0001
#259	128.5	129.0	0.5	0.40	0.02	20	2.0	<.0001
#260	129.0	129.5	0.5	1.05	0.03	20	4.8	<.0001
#261	129.5	130.0	0.5	0.56	0.08	40	6.4	<.0001
#262	130.0	130.5	0.5	2.24	0.16	40	11.6	<.0001
#263	130.5	131.0	0.5	0.54	0.03	20	3.8	<.0001
#264	134.1	134.4	0.3	0.46	0.05	20	2.8	<.0001
#265	135.3	135.6	0.3	0.47	0.02	22	2.9	<.0001
#266	137.1	137.7	0.6	0.60	0.03	26	3.2	<.0001
#267	137.7	138.2	0.5	0.41	0.03	24	2.8	<.0001
#268	138.2	138.7	0.5	1.26	0.02	88	2.2	<.0001

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

PROPERTY HOUSTON	LATITUDE 1500N	STARTED August 29, 1981	DIP TEST
HOLE NO. H-81-11	DEPARTURE 312.5W	FINISHED August 30, 1981	
BEARING 090°	ELEVATION	LENGTH 100.6m	
DIP-COLLAR -45°	CLAIM: RED	LOGGED BY J. Helsen	

Metres From	Metres To	Description	% Mineralization	Sample No.	Metres From	Metres To	Length	Geochemical Analyses
0	18.3	OVERBURDEN						
18.3	21.5	BRECCIA						
		Breccia, andesitic(?) with varying degrees of brecciation - 5 small veins which stained surrounding rock with rusty color, but no trace of mineralization.						
21.5	24.4	ANDESITE CRYSTAL TUFF						
		Porphyritic andesitic tuff changing into sequence of dark (chlorite) and light grey layers (flow-banding?). Tuff contains about 8 small veins showing rusty color penetrating deep into wall rock veinlet 0.1cm thick, weathering (rusty color) about 2cm wide.						
24.4	29.0	VOLCANIC AGGLOMERATE						
		Flow banding turns into agglomerate, extensive alteration. 25.2m: small fracture zone with calcite and rusty staining. 25.9 - 29.0m: agglomerate with several calcite veinlets and abundant clay suggesting small fault zone at 26.4 and 27.8m. Towards bottom of section rock becomes lighter in color, i.e. extensive alteration with numerous tiny veinlets and a few veins (1cm) containing calcite, chlorite and pyrite in pods, and clay.						
29.0	32.0m	MIXED VOLCANIC ROCKS		H-81-11-#29HS				
		Andesitic crystal tuff, lapilli tuff and breccia. Feldspar phenocrysts have alteration envelope, but core of some still unaltered.	Pyrite < 0.1%					
32.0	35.1m	BRECCIA						
		Breccia but no mineralization.						
35.1	38.1m	MIXED VOLCANIC ROCKS						
		Crystal tuff, very altered with abundant feldspar phenocrysts changing into breccia - no mineralization.						
38.1	39.9m	BRECCIA						

N.L.M. EXPLORATION DIVISION, D.D.H. RECORD PROPERTY HOUSTON HOLE NO H-81-11

Metres From	Metres To	Description	% Mineralization	Sample No.	Metres From	Metres To	Length	Zn (ppm)	Pb (ppm)	Cu (ppm)	Ag (ppm)	Au OPT	Mo (ppm)
39.9	47.2	TRACHYTE(?)		#30aHS									
		Fast transition of breccia into light grey trachyte with aligned feldspars (sanidine?). Occasionally intersected by more andesitic porphyry tuff. Alteration is very intense. Bottom part very broken and clayey, i.e. fault.											
47.2	50.3	MIXED VOLCANIC ROCKS		#30b	47.2	50.3	3.1	112	36	94	0.8	<.0001	4
		Light grey porphyritic tuff with feldspar and occasional hornblende or pyroxene phenocrysts. Feldspar phenocrysts are transparent, hornblende is totally replaced. Tuff alternating with lapilli tuff and/or breccia. Several calcite veins with occasional pods of pyrite in veins. No disseminated pyrite. Clayey fault zone at 48.6m.	Pyrite less than 0.5%										
50.3	74.7	BRECCIA											
		Blocks in breccia are trachytic in texture but matrix seems more andesitic. Some pyrite in either remnants of old andesite matrix or newly introduced alteration material											
		50.3 - 53.3m: No disseminated pyrite.	Pyrite 0.5%	#31	50.3	53.3	3.0	106	28	60	0.6	<.0001	4
		53.3 - 59.4m: Trachyte blocks and andesite matrix, no mineralization.											
		59.4 - 62.5m: Same breccia but seemingly increase in chlorite veinlets, i.e. appearance of foliation.											
		62.5 - 65.5m: Same breccia. At 64.8m hand specimen for type of alteration and original composition of breccia blocks.		#32HS	64.8	65.1	0.3						
		65.5 - 68.6m: Same breccia.											
		68.6 - 74.7m: Same breccia with a few veins with quartz and sphalerite(?).		#33	70.5	71.6	1.1	66	20	50	0.4	<.0001	2
		No pyrite. Quartz also in some interstitial spaces.		#34	71.6	74.7	3.1	58	18	54	0.4	<.0001	2
74.7	100.6	ANDESITE CRYSTAL TUFF											
		Strong alteration of phenocrysts in tuff, and along quartz and/or calcite veins which seem to increase in number. No evidence for more sphalerite. No pyrite.		#35	74.7	76.2	1.5	42	20	56	1.0	.0001	2
		77.7 - 80.8m: Same tuff with vague indication of quartz veins with purple (fluorite?) and black hue (sphalterite?). No pyrite.		#36	77.7	80.8	3.1	66	18	44	0.4	<.0001	2
		80.8 - 83.8m: Andesite crystal tuff. No mineralization. 82.5m: Zone of breccia. 82.4m: 0.3cm quartz vein with pyrite nodule.		#37HS									
		83.8 - 86.9m: Andesite tuff more bleached due to more pervasive infiltration of small veinlets with either fluorite in quartz or with pink quartz.		#38	83.8	86.9	3.1	50	20	60	0.4	<.0001	2
		86.9 - 93.0m: Andesite tuff with a few quartz and/or calcite veinlets. 92.8m: 1.5cm massive chlorite vein.		#39HS	92.7	92.9	0.2	90	8	92	0.4	<.0001	2
		93.0 - 96.0m: More intensely veined with chlorite veinlets (about 6). Area veined with chlorite veinlets is lighter grey than andesite tuff.		#40HS	93.0	96.1	3.1	64	12	58	4.8	<.0001	4
		96.0 -100.6m: Andesite tuff with abundant quartz veinlets and 4cm wide calcite veins (fracture filling) but no more chlorite veinlets. No pyrite.											
	100.6	END OF HOLE											

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

PROPERTY	HOUSTON - RED Claim	LATITUDE	1,300N	STARTED	August 30, 1981
HOLE NO.	H-81-12	DEPARTURE	525W	FINISHED	August 31, 1981
BEARING	270°	ELEVATION		LENGTH	345 feet (105.2m)
DIP-COLLAR	-55°	XXXXXXX CLAIM:	RED	LOGGED BY	J. Helsen

DIP TEST: Corrected | Corrected | Corrected

Metres From	Metres To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Length	Mo	Cu	Pb	Zn	Ag.	Au
								Geochemical Analyses (ppm except Au in ppb)					
0m	54.9m	OVERBURDEN											
54.9m	86.9m	VOLCANIC BRECCIAS											
		54.9m-56.4m: Breccias are very altered. Fractures and interstitial spaces occasionally filled with chalcedomy like quartz, koolinite, undefined soft black amorph material, and some pyrite cubes. Fractures and interstices make up some 2 to 3% of rock.		H-81-12-41	54.9	56.4	1.5m	4	70	4	52	0.4	
		56.4m-59.4m: Very altered breccia. Both groundmass and blocks are extremely altered. A few tiny veins but no mineralization.		H-81-12-42	56.4	59.4	3.0m	4	190	12	50	0.4	
		59.4m-62.5m: Same altered volcanic breccia. Some of the bigger blocks are darker inside which may hint at original composition (andesitic?)		H-81-12-43	59.4	62.5	3.0m	4	278	8	36	0.4	
		62.5m-65.5m: Strongly altered volcanic breccias with a few veins containing occasionally some pink quartz(?)		H-81-12-44	62.5	65.5	3.0m	7	278	12	60	0.8	
		65.5m-68.6m: Very light grey volcanic breccia in which the blocks are almost indistinguishable from groundmass due to alteration. Some brown staining occurs along cracks. In the lower half some pyrite occurs in the infrequent joints. Possibly some bitumen(?)		H-81-12-45	65.5	68.55	3.05m	4	58	10	82	0.6	
		68.6m-71.6m: Same altered breccia but no pyrite.		H-81-12-46	68.55	70.3	1.7m	4	50	6	52	0.6	
		71.6m-74.7m: Same altered breccia, no mineralization except at 74.5m some brown staining.											
		74.7m-77.7m: Same altered breccia, no mineralization.		H-81-12-47	74.4	74.6	0.2m	7	160	16	112	1.0	
		77.7m-80.8m: Same altered breccia. At 79.0m bitumen on pyrite cubes. The alteration pattern reflects a complex multi-stage development.		H-81-12-48	77.7	78.8	1.1m	4	76	16	108	0.6	
				H-81-12-49	78.9	80.7	1.8m	7	94	24	112	0.6	
		80.8m-83.8m: Same volcanic altered breccia with apparently multi-stage (frequently re-opened) veins of about 1cm wide. These veins contain brown (altered pyrite?) and green (massive chlorite?) minerals.		H-81-12-50	80.8	83.8	3.0m	7	214	20	262	0.4	
		83.8m-86.9m: Medium grey, very altered, finer grained, more tuffaceous rock, unless the blocks and groundmass are equally strongly altered. Consequently masking the previous breccia appearance. At 83.6m a small pocket of oil.		H-81-12-51	83.8	85.7	2.9m	4	48	70	318	0.4	
86.9m	93.0m	ANDESITIC TUFF											
		86.9m-89.9m: Medium grey tuffaceous volcanics with occasionally abundant tiny quartz veins and buff colored coating of wall rock.		H-81-12-52	86.9	89.9	3.05m	7	158	32	124	0.4	
		89.9m-93.0m: Tuffaceous medium-grey volcanics with abundant veinlets. The lower part becomes more vitric in appearance with a few plagioclase phenocrysts.		H-81-12-53	89.9	92.2	2.30m	7	82	10	48	0.6	

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

PROPERTY Houston (RED Claim) HOLE NO. H-81-12

METRES From	METRES To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Metres Length	Geochemical Analyses					
93.0m	96.0m	VITRIC TUFFS											
		93.0m-96.0m: Vitric tuffs, dark grey with a few phenocrysts (1%). Vein density is decreasing. No mineralization.											
		96.0m-105.2m: Vitric tuff. Same comments as above. Occasionally a tiny calcite vein.											
	105.2m	END OF HOLE											

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

PROPERTY	HOUSTON	LATITUDE	1100N	STARTED	September 1, 1981
HOLE NO.	H-81-13	DEPARTURE	325W	FINISHED	September 2, 1981
BEARING	290°	ELEVATION		LENGTH	100.6m
DIP-COLLAR	-45°	CLAIM:	RED	LOGGED BY	J. Helsen

DIP TEST	Corrected		Corrected		Corrected

Metres From	Metres To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Metres Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses (in ppm, except Au in OPT)					
0	11.3	OVERBURDEN											
11.3	13.7	BRECCIA											
		Volcanic breccia with dark grey green blocks with altered feldspar and light grey matrix. Distinction between blocks and matrix fades to large extent. No mineralization except for occasional pod of pyrite.											
13.7	22.9	TRACHYTIC(?) CRYSTAL TUFF		#54HS									
		Medium to light grey with two feldspars altered to clays. Some alignment seems to be present very strong alteration. Occasionally well rounded bombs(?).											
		16.8 - 19.8m: light grey trachytic tuff with occasionally darker grey matrix strong alteration. Some fine veinlets with bitumen(?).											
		19.8 - 22.9m: Alternating light and dark grey tuff. A few small veinlets with bitumen(?) or chlorite(?) - no mineralization.		#55a	19.8	22.6	2.8	60	26	40	0.6	.0001	13
22.9	29.0	ANDESITE TUFF											
		Andesitic vitric tuff ranging from dark grey to light grey. Both rocks contain sparse crystal or microlite clusters. Well developed unaligned phenocrysts.		#55b	22.9	24.3	2.4	52	20	48	0.6	.0002	7
		22.9 - 25.9m: Pyrite occurs in a few veinlets. Fault-clay zone at 24.9m.	Pyrite < 1%	#56	24.3	25.9	1.6	96	20	136	0.8	.0001	6
		25.9 - 29.0m: Medium grey with feldspar saussiterization and amphibole phenocrysts, with amphiboles lacking in lower half. Intensely altered. Slight increase in pyrite (veinlets and disseminated). Clay-fault zone from 26.6 to 26.7m and at 27.3m.		#57	25.9	27.6	1.7	42	16	48	0.6	.0004	7
				#58	27.6	29.0	1.4	48	18	26	0.6	.0001	7
19.0	51.8	RHYOLITE(?)											
		Light grey volcanic rock (rhyolite?) with very altered (saussiterized) feldspar pheocrysts and matrix containing some quartz.											
		29.0 - 32.0m: A few small veinlets with pyrite which also occurs as disseminated blebs or pockets. No mafic minerals.		#59	29.0	30.5	1.5	66	18	200	0.8	.0001	4
				#60	30.5	32.0	1.5	44	18	26	0.4	.0001	7
		32.0 - 35.0m: Same rhyolite, pyrite in veinlets and disseminated.	Pyrite ~ 1%	#61	32.0	33.5	1.5	76	20	140	0.8	.0001	8
		35.0 - 38.1m: Rhyolite with slightly darker matrix with seeminly two feldspars with different degrees of alteration - pyrite decreases.	Pyrite < 1%	#62	33.5	35.0	1.5	96	22	36	1.0	.0001	4
				#63	35.0	36.5	1.5	78	16	246	0.8	.0001	10
		38.1 - 44.2m: Rhyolite - a few veinlets with pyrite. #68 contains cavity with chlorite.	Pyrite ≤ 1%	#64	36.5	38.2	1.7	62	18	54	0.8	.0003	4
				#65	39.0	39.8	0.8	76	14	34	0.6	.0002	4
		44.2 - 47.2: Rhyolite - pyrite in veinlets now replaced by chlorite, also a few cavities filled with quartz.		#66	40.4	41.2	0.8	60	14	250	0.8	.0002	8
				#67	41.6	42.3	0.7	56	10	32	0.8	.0003	4
		47.2 - 51.8m: Rhyolite - veins with chlorite seem to affect wallrock slightly - K/Ca feldspars seem to substantiate rhyolite despite strong alteration. At 51.8m reappearance of amphibole phenocryts and less K-feldspar.		#68	42.6	42.9	0.3	52	16	26	0.8	.0006	7

N.L.N. EXPLORATION DIVISION, D.D.H. RECORD — PROPERTY HOUSTON — HOLE NO. H-81-13 —

Metres From	Metres To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses (ppm except Au in OPT)					
51.8	56.4	ANDESITE TUFF		#69HS									
		Dark to light grey green andesite tuff alternating. NOTE: dark colored sections contain more altered feldspars and lighter colored sections contain more amphibole phenocrysts. Clusters of quartz present.											
56.4	71.6	RHYOLITE(?)		#70HS									
				#71	59.4	60.9	1.5	82	18	124	0.8	.0002	2
		Same rhyolite as above.		#72	60.9	62.5	1.6	56	8	26	0.6	.0002	7
		56.4 - 59.4m: transition from andesite to rhyolite.		#73	62.5	64.0	1.5	70	20	206	0.6	<.0001	12
		59.4 - 62.5m: very broken - veinlets with some pyrite.		#74	64.0	65.6	1.6	48	8	24	0.8	<.0001	9
		62.5 - 65.5m: rhyolite with veinlets and pyrite.	Pyrite < 1%	#75	65.5	67.0	1.5	90	8	70	0.6	<.0001	9
		65.5 - 68.6m: rhyolite changing into more dacitic composition (increase in amphiboles.	Pyrite (veinlets) ±1%	#76	67.0	68.5	1.5	68	16	142	0.8	.0001	2
				#77HS									
		68.6 - 71.6m: rhyolite with seemingly two feldspars but no quartz unless in groundmass.											
71.6	80.8	BRECCIA											
		Volcanic breccia with basaltic and rhyolitic blocks. Calcite vein (1cm) wide											
		78.1 - 78.5m: clayey fault zone, lower down transition into bleached andesite											
80.8	100.6	ANDESITE TUFF											
		80.8 - 83.8m: Bleached andesite with drastic change into andesitic lapilli tuff which changes gradually into red and dark grey andesite tuff changing into extremely altered andesite(?).		#78	80.8	83.8	3.0	54	14	48	0.8	.0004	4
		83.8 - 86.9m: Andesitic crystal tuff with many small veinlets altering strongly into surrounding rock into very bleached andesite(?).		#79	84.6	84.9	0.3	72	16	30	1.2	.0001	2
		84.7m: hairline vein with 2cm of red wall rock alteration.		#80	85.4	86.9	1.5	66	10	36	0.8	.0003	2
		86.9 - 89.9m: Andesite with a few calcite veins.											
		89.9 - 96.0m: Andesite with a small section (20cm) of breccia.											
		96.0 -100.6m: Andesite but occasionally more strongly veined.		#81	96.9	97.4	0.5	80	12	40	1.0	.0002	2
				#82	98.0	98.4	0.4	56	12	24	0.8	.0002	7
	100.6	END OF HOLE											

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

PROPERTY	HOUSTON	LATITUDE	1475N	STARTED	September 2, 1981
HOLE NO.	H-81-14	DEPARTURE	100E	FINISHED	September 3, 1981
BEARING	180°	ELEVATION		LENGTH	132.3m
DIP-COLLAR	-45°	CLAIM:	CODE 15	LOGGED BY	J. Helsen

DIP TEST	Corrected		Corrected		Corrected

Metres From	Metres To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses (ppm except Au in OPT)					
0	9.1	OVERBURDEN											
9.1	16.8	MIXED VOLCANIC ROCKS											
		Very clayey altered rock ranging from lapilli tuffs to breccias. No visible mineralization.		#83	15.2	16.8	1.5	100	40	34	1.0	.0003	9
16.8	19.8	BRECCIA											
		Blocks have white (altered) matrix with phenocrysts. Breccia matrix is medium grey with a few pyrite specks (in groundmass).		#84	16.8	18.3	1.5	620	278	26	2.2	.0004	4
				#85	18.3	19.8	1.5	156	64	14	1.2	.0004	4
19.8	68.6	TRACHYANDESITE											
		Medium grey greenish matrix with abundant plagioclase(?) phenocrysts and ±5% mafics (smaller than plagioclase). Name of trachyandesite is subjective because of intensive alteration. A few chlorite veinlets. Very little mineralization.	Pyrite < 1%	#86	19.8	22.8	3.0	200	82	176	1.2	.0002	10
		22.9 - 25.9m: Same trachyandesite porphyry (greater than 50% phenocrysts). Occasional pyrite blebs, the odd silver grey speck.		#87	22.9	25.9	3.0	146	56	18	1.2	.0002	4
		25.9 - 29.0m: Clayey alteration and fault zone from 27.6 to 28.3. No visible mineralization.		#88	25.9	27.4	1.5	124	58	32	1.2	.0001	7
				#89	27.4	28.9	1.5	110	62	130	1.2	.0001	7
		29.0 - 32.0m: Very broken, clayey with chlorite veins from 31.5 to 32.0.											
		32.0 - 35.1m: Trachyandesite - with occasional small zone of breccia - no visible mineralization.											
		35.1 - 38.1m: Monotonous trachyandesite porphyry with about 10 tiny chlorite veinlets, some containing minor pyrite.											
		38.1 - 44.2m: Same trachyandesite. Slight increase in chlorite veins.											
		44.2 - 47.2m: Same trachyandesite, more altered and broken. #90 and #91 taken because of a few rusty spots (originally pyrite?). Section becomes broken, clayey and chlorite rich.	Pyrite < 1%	#90	44.2	45.4	1.2	110	40	94	0.6	.0002	9
				#91	45.4	46.9	1.5	126	38	68	0.6	.0003	4
		47.2 - 56.4m: Very broken, clayey, indicating 2 fault zones or one big one. No visible mineralization											
		56.4 - 59.4m: Same trachyandesite, very altered, less broken.	Pyrite < 1%	#92	56.5	59.4	2.9	120	46	136	0.8	.0001	2
		59.4 - 62.5m: Same trachyandesite, more intensely veined with chlorite and clayey minerals. Some pyrite specks.		#93	59.4	62.4	3.0	118	56	174	0.8	.0001	8
		62.5 - 68.6m: Same trachyandesite alternating with some breccia and agglomerates of same composition. A few specks of pyrite.	Pyrite < 1%	#94	65.5	68.6	3.1	112	50	24	1.2	<.0001	7

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

PROPERTY HOUSTON HOLE NO. H-81-14

Metres From	Metres To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses (ppm except Au in OPT)					
68.6	132.3m	ANDESITE TUFF											
		Light grey to almost white andesite(?) with intense alteration i.e. feldspars totally altered to clay. Minor magnetite and pyrite present.											
		68.6 - 74.7m: Andesite tuff with some specks of magnetite(?) and pyrite - very altered.	Pyrite < 1%	#95	71.6	74.7	3.1	88	40	168	1.0	<.0001	4
		74.7 - 83.8m: Very altered andesite(?) tuff with some chlorite veinlets.		#96HS									
		83.8 - 86.9m: Same tuff becoming breccia towards bottom.											
		86.9 - 93.0m: Same altered andesite porphyry. Both phenocrysts and groundmass to clay - no quartz in groundmass. Occasionally rich in chlorite veinlets.											
		93.0 - 99.1m: Same altered volcanic with only minor pyrite	Pyrite < 0.5%	#97	93.0	96.0	3.0	130	38	42	1.0	<.0001	2
		99.1 -102.1m: Same tuff but more chlorite veins.		#98	96.0	99.1	3.1	90	26	12	0.8	.0002	4
		102.1-108.2m: Same tuff.											
		108.2-110.0m: Same tuff becoming more broken with clay and occasional pyrite in chlorite or clay veins towards bottom i.e. fault zone.		#99	108.2	109.7	1.5	110	42	44	1.0	.0003	4
		110.0-123.1m: Same altered tuff with insignificant pyrite in chlorite veinlets.	Pyrite < 0.5%	#100	114.8	116.5	1.7	66	40	34	1.0	.0001	2
				#101	121.6	123.1	1.5	80	46	22	1.0	.0001	4
		123.1-132.3m: Same altered andesite tuff but more broken with slight increase		#102	123.1	124.6	1.5	46	26	10	0.8	.0002	4
		in chlorite veins and clay veins.		#103	124.6	126.1	1.5	62	38	44	0.8	<.0001	4
				#104	127.7	129.2	1.5	20	20	118	0.8	.0002	4
	132.3m	END OF HOLE		#105	129.2	132.3	2.1	70	30	274	0.8	.0001	14

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

PROPERTY HOUSTON	LATITUDE 1425N	STARTED September 4, 1981	DIP TEST Metres	Corrected		Corrected		Corrected
HOLE NO. H-81-15	DEPARTURE 500E	FINISHED September 5, 1981	138.7m	-48°				
BEARING 180°	ELEVATION	LENGTH 138.7m						
DIP-COLLAR -45°	CLAIM: CODE 14	LOGGED BY J. Helsen						

METRES From	METRES To	DESCRIPTION	% Mineralization	SAMPLE NO.	Metres From	Metres To	Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses (ppm except Au in OPT)					
0	12.2m	OVERBURDEN											
12.2	59.4m	BRECCIA											
		Very altered, weathered at top, clayey volcanic breccia, light to medium grey											
		(greenish) with little mineralization generally, mainly pyrite.											
		12.2 – 13.7m: Breccia, rock is very pulverized indicating possible fault											
		zone.											
		13.7 – 19.8m: Same breccia, hint of veinlet with possible sphalerite(?).	Pyrite < 0.5%	#106	18.2	19.8	1.6	700	30	28	1.6	<.0001	11
		19.8 – 22.9m: Breccia with disseminated pyrite.	Pyrite < 0.5%										
		22.9 – 25.9m: Breccia with more clay in veins.	Dis. pyrite < 0.5%	#107	25.5	25.9	0.4	760	50	50	2.2	<.0001	7
		25.9 – 41.1m: Same altered breccia with very little pyrite. Black specks		#108	30.5	31.4	0.9	2500	94	36	2.2	<.0001	9
		from 32.0 to 35.0 but too tiny to recognize. No visible pyrite											
		41.1 – 44.2m: Same breccia but less clayey, seems more compact.		#109	41.1	42.6	1.5	740	92	28	1.8	<.0001	9
		44.2 – 47.2m: Breccia, very altered, but less clayey.		#110	42.6	44.2	1.6	440	54	32	1.2	<.0001	9
		47.2 – 50.3m: Same breccia, more solid, small increase in pyrite in veinlets		#111	47.2	48.7	1.5	520	88	36	1.6	<.0001	4
		50.3 – 53.3m: Same breccia, pyrite disseminated and in chlorite and clay		#112	48.7	50.3	1.6	620	52	36	3.6	<.0001	4
		veinlets at bottom of section.		#113	50.3	53.4	3.1	2760	336	42	4.0	.0013	7
		53.3 – 56.4m: Many small diffuse veinlets explain intense alteration of rock		#114	53.3	54.8	1.5	920	80	30	2.2	.0001	4
		Apparently less altered remnants of original rock carry more		#115	54.8	56.4	1.6	640	192	32	8.0	.0002	4
		disseminated pyrite than surrounding more altered (leached)											
		rock.											
		55.5m: Some fine beds becoming coarser over 0.2m, then return											
		into breccia.											
		56.4 – 59.4m: Same breccia, more veined. Pyrite seems to increase along	Pyrite 2% to 3%	#116	56.4	57.4	1.0	920	498	34	3.6	<.0001	7
		veinlets as pods.		#117	57.4	58.4	1.0	80	82	34	7.2	.0002	2
		59.4 – 62.5m: Breccia gradually changing into lapilli tuff. Less pyrite.		#118	58.4	59.4	1.0	900	136	36	7.0	.0002	4
62.5	71.6m	LAPILLI TUFF		#119	62.5	63.5	1.0	140	148	34	2.2	.0001	4
				#120	67.3	67.8	0.5	80	84	34	2.6	.0003	4
		Lapilli tuff with very minor pyrite and a few chlorite veins. Tuff becomes	Pyrite < 0.5%	#121	68.6	69.6	1.0	76	56	34	1.8	.0002	4
		occasionally finer grained.		#122	69.6	70.6	1.0	102	92	26	2.0	.0002	4
71.6	74.7m	ANDESITE TUFF											
		Tuff, andesitic(?) with occasionally lapilli and some bedding, otherwise very	Pyrite < 0.5%										
		similar to above rocks.											
74.7	80.8m	MIXED VOLCANIC ROCKS		#123	74.7	75.0	0.3	920	178	22	2.4	.0001	4
				#124a	75.0	75.1	0.1	3000	1334	72	16.4	.0034	2
		Andesitic tuff alternating with lapilli tuff and/or breccia. No mineraliza-	Pyrite < 0.5%	#124b	duplicate of 124a			3000	1362	70	16.4	.0035	4
		tion other than some disseminated pyrite and a few chlorite and clay veinlets;											
		5cm wide at 75.0 and 1cm wide at 75.1. Changing gradually into very altered											
		breccia.											

METRES From	METRES To	DESCRIPTION	% Mineralization
80.8	82.5m	BRECCIA	
		Volcanic breccia, very altered, with many small veinlets with clay.	
82.5	86.9m	LAPILLI TUFF	
		Lapilli tuff with good bedding (at 30° from core axis) and occasional breccia. At 84.7 chlorite vein with more at normal pyrite content. Changing into breccia.	Dis. py ≤ 0.5%
86.9	99.1m	BRECCIA	
		Breccia alternating with lapilli tuff occasionally disseminated pyrite less than 0.5%	
		86.9 - 89.9m: At bottom of section broken and clayey - fault zone.	
		89.9 - 93.0m: Medium grey, broken, clayey, occasional pyrite pocket.	Dis. py < 0.5%
		93.0 - 96.0m: Breccia as above, very altered and broken.	
		96.0 - 99.1m: Breccia changing into tuff and lapilli tuff. Very broken.	
99.1	105.2	LAPILLI TUFF	
		Dark grey with a few blocks and a few accretionary lapilli, alternating occasionally with medium grey breccias. At bottom 0.1cm wide veinlet with sphalerite(?) and maybe some disseminated sphalerite(?).	Pyrite < 0.5%
105.2	138.7m	BRECCIA	
		Medium grey breccia, occasionally very clayey, with frequent small clay veins. Sphalerite occurs in veinlets occasionally. Alteration very intense. i.e. groundmass to chlorite and feldspars to kaolinite, clay, saussurite.	
		105.2-108.2m: Clayey breccia with several tiny clay veinlets at 106.6m; 106.8m; and 107.4m. The veinlet at 107.4 is 1.5cm wide and contains some sphalerite.	Minor pyrite and sphalerite
		108.2-111.3m: Altered breccia with sphalerite veinlet at 110.6m.	Dis. py < 0.5%
		111.3-120.4m: Breccia with occasional clay and chlorite veinlets. No visible sphalerite, except in 0.1cm wide veinlet at 118.85m. This section also contains sphalerite specks.	Dis. py < 0.5%; Sph. dis. and in vein < 0.5%
		120.4-123.4m: Altered breccia with disseminated pyrite less than 0.5%. Small pyrite and sphalerite(?) veinlet at 121.75 (0.5cm wide)	
		123.4-126.5m: Same as above, pyrite and sphalerite veinlet at 126.05m (0.2 cm wide).	Py. and sph. ≤ 0.5%
		126.5-129.5m: Breccia with pyrite but no visible sphalerite. Either sphalerite(?) or an Fe-oxide occurs occasionally in altered feldspars as a core.	Pyrite < 0.5%
		129.5-132.6m: Same altered breccia with 0.3cm wide pyrite vein at 131.6m. No visible sphalerite veinlets.	
		132.6-135.6m: Same altered breccia, becoming gradually finer grained. 133.5m: 0.2cm wide veinlet with sphalerite. 134.0m: 0.1cm wide veinlet with sphalerite. 134.4m: 0.3cm wide veinlet with sphalerite.	Pyrite <0.5%
		135.6-138.7m: Same breccia as above. 137.1m: 0.1cm wide veinlet with sphalerite(?) or pyrite(?). 137.2m: 0.1cm wide veinlet with sphalerite(?) or pyrite(?).	

SAMPLE NO.	Metres From	Metres To	Length	Zn	Pb	Cu	Ag	Au	Mo
				Geochemical Analyses (ppm except Au in ppb)					
#125	84.7	84.9	0.2	2860	178	32	5.0	.0036	7
#126	91.7	92.0	0.3	2820	346	102	5.6	.0003	4
#127	105.1	105.2	0.1	1860	52	24	1.8	.0003	4
#128	105.1	105.3	0.2	2400	78	34	1.6	.0003	4
#129	105.3	106.3	1.0	404	44	24	1.4	.0002	2
#130	106.3	108.3	2.0	374	40	20	1.4	.0002	2
#131	108.3	110.5	2.2	858	40	22	1.6	.0003	2
#132	110.5	110.8	0.3	1984	62	22	1.6	.0002	2
#133	110.8	111.3	0.5	534	48	20	1.4	.0002	2
#134	111.3	112.3	1.0	416	32	18	1.2	.0002	2
#135	112.3	113.3	1.0	1224	42	30	1.4	.0004	2
#136	113.3	114.3	1.0	940	38	20	1.4	.0001	2
#137	114.3	115.3	1.0	436	30	20	1.2	.0002	2
#138	115.3	116.3	1.0	286	36	20	.14	.0001	2
#139	116.3	117.3	1.0	306	46	18	1.4	.0001	2
#140HS	117.3	118.6	1.3	498	42	18	1.6	.0001	2
#141HS	118.6	118.9	0.3	2418	76	32	2.0	.0004	2
#142	118.9	120.4	0.5	Sample	Missing	-Sample	Missing	-Sample	Missing
#143	120.4	121.4	1.0	428	38	22	1.2	.0001	4
#144	121.4	121.9	0.5	2398	90	56	2.6	.0003	2
#145	121.9	123.4	1.5	1380	38	24	1.4	.0001	2
#146	123.4	124.4	1.0	1134	34	22	1.4	.0001	2
#147	124.4	125.9	1.5	490	26	24	1.2	.0001	2
#148	125.9	126.2	0.3	2720	78	48	2.4	.0020	2
#149	126.2	126.5	0.3	904	44	20	1.4	.0002	2
#150	126.5	127.5	1.0	182	24	22	1.2	.0002	2
#151	127.5	128.5	1.0	308	28	18	1.2	.0002	2
#152	128.5	129.5	1.0	2254	66	32	1.6	.0003	2
#153	129.5	130.5	1.0	548	38	18	1.2	.0002	2
#154	130.5	131.5	1.0	1902	40	22	1.2	<.0001	7
#155	131.5	132.6	1.1	2188	44	24	1.4	.0001	4
#156	132.5	133.8	1.2	2472	32	30	1.6	.0005	9
#157	133.8	134.1	0.4	2620	46	34	1.8	<.0001	9
#158	134.1	134.5	0.4	3124	110	48	4.2	<.0001	4
#159	134.5	135.6	1.1	2314	38	20	1.4	<.0001	7
#160	135.6	136.9	1.3	458	30	20	1.0	<.0001	4
#161	136.9	137.3	0.4	2730	98	30	2.8	<.0001	2
#162	137.3	138.7	1.4	1820	44	18	1.4	<.0001	7

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

PROPERTY	HOUSTON	LATITUDE	800N	STARTED	September 7, 1981
HOLE NO.	H-81-16	DEPARTURE	150E	FINISHED	September 7, 1981
BEARING	135°	ELEVATION		LENGTH	100.6m
DIP-COLLAR	-45°	CLAIM:	CODE 5	LOGGED BY	J. Helsen

DIP TEST: Corrected | Corrected | Corrected

METRES From	METRES To	DESCRIPTION	% Mineralization	SAMPLE NO.	METRES From	METRES To	Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses in ppm, except Au in OPT					
0	25.9	OVERBURDEN											
25.9	32.0	LAPILLI TUFF											
		Broken medium grey lapilli tuff, very altered and weathered. Small pyrite (0.2cm) vein or perhaps sphalerite(?).		#269HS									
		29.0 - 32.0m: Lapilli tuff with chlorite pods, accretionary lapilli i.e. same rock type as in H-81-10 and H-81-15. Evidence for several small totally weathered out pyrite veinlets. No visible pyrite in rock.		#270	29.0	30.5	1.5	Results not Received					
32.0	38.1	MIXED VOLCANIC ROCKS											
		32.0 - 35.1m: Lapilli tuffs changing into breccia and cut by several pyrite veins now totally altered and weathered to clay and limonite. One of these veins may have been 15cm wide(?).		#271	33.05	33.15	0.1	Results not Received					
		35.1 - 38.1m: Same rocks, again cut by several pyrite veinlets totally weathered out. A few pyrite specks disseminated in rock. Evidence for at least 11 other veinlets with pyrite but no mineralization left. Rock extremely broken.											
38.1	44.2	BRECCIA											
		Volcanic breccia with several weathered out pyrite(?) veinlets and very broken towards bottom.											
		38.1 - 41.1m: About eight 0.1cm wide weathered out veinlets now limonite - rock very altered i.e. many fragments now completely kaolinized. Only a few specks of disseminated pyrite, no other visible mineralization.	Pyrite < 0.1%	#272	39.3	39.4	0.1	Results not Received					
		41.1 - 44.2m: Same breccia, three 0.1cm wide veins and one 3cm wide vein, now brown stained (limonite). Fault zone towards bottom of section with 3 totally weathered out pyrite(?) veins.		#273	41.9	42.7	0.8	100	22	178	0.6	.0002	8
44.2	47.2	MIXED VOLCANICS											
		Lapilli tuff changing into breccia in lower half. At least one pyrite vein, now limonite, 1.5cm wide, weathered out pyrite vein. No disseminated pyrite and number of veins decreasing.											
		47.2 - 50.3m: Lapilli tuff alternating with breccia - three 0.1cm wide weathered out pyrite veinlets.	Dis. pyrite < 0.1%										

Metres From	Metres To	Description	% Mineralization	Sample No.	Metres From	Metres To	Length	Zn	Pb	Cu	Ag	Au	Mo
								Geochemical Analyses (ppm except Au in OPT)					
50.3	56.4	LAPILLI TUFF											
		50.3 - 53.3m: Tuff and lapilli tuff alternating. One weathered out pyrite vein at 51.8m. Clay-fault zone at 51.3 and 53.2m. No disseminated pyrite.											
		53.3 - 56.4m: Same as above - four tiny weathered out pyrite veins. No disseminated pyrite.											
56.4	65.5	MIXED VOLCANIC ROCKS											
		These include tuffs, lapilli tuffs, breccias. Several small weathered out pyrite veinlets and fault zones.											
		56.4 - 59.4m: Lapilli tuff with a few clay veins. Small fault zone - no disseminated pyrite.											
		59.4 - 62.5m: Lapilli tuff changing into breccia at 61.6m.											
		62.5 - 65.5m: Light to medium grey tuff with occasional block, becoming gradually coarser. About five small weathered pyrite vein at 62.7, 63.1, 63.2, 63.3 and 64.4. Angle of veins with core axis ±45°. No disseminated pyrite.		#274	63.0	63.9	0.9	104	26	142	0.6	.0001	4
65.5	76.8	TUFF											
		Tuffs occasionally coarsening, very altered, several small brown (from weathered pyrite) clay veins.											
		65.5 - 68.6m: Tuff occasionally coarsening, two brown clay veins (from pyrite) at 66.2 and 67.6. Fault zone from 66.8 to 67.0m.											
		68.6 - 71.6m: Very altered tuff occasionally coarsening. One small brown veinlet (pyrite?).											
		71.6 - 74.7m: Same as above with clay zone.											
		74.7 - 76.8m: Same tuff changing into lapilli tuff at 76.9m. 2cm wide clay vein at 77.2m.											
76.8	83.3	LAPILLI TUFF											
		Very altered lapilli tuff.											
		76.8 - 77.7m: 2cm wide clay vein at 77.2m.											
		77.7 - 80.8m: Same lapilli tuff becoming coarser with obvious beds at 79.2m. Beds for about 35° angle with core axis. Alternating coarsen- and fining in lower 1.5 meters (3 cycles).											
		80.8 - 83.3m: Lapilli tuff becoming badly broken with clayey sections and fault zone.											
83.3	89.9	BRECCIA											
		Breccia with fine groundmass, occasionally becoming coarse tuff.											
		83.8 - 86.9m: Breccia with small tuff band at 84.7m dark chlorite(?) veinlets. Badly broken at 85.5m i.e. fault zone. No mineralization.		#275	84.7	85.0	0.3	110	20	270	0.6	.0004	6
		86.9 - 89.9m: Breccia with many blocks easily altered into brown, not white, kaolinite clay. At 88.1 some bedding visible. No mineralization.											

M.L.M. EXPLORATION DIVISION, D.D.H. RECORD — PROPERTY HOUSTON — HOLE NO. H-81-16

METRES From	METRES To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS						
89.9	95.1m	LAPILLI TUFF												
		Very altered lapilli tuff alternating occasionally with tuffs.												
95.1	99.9m	BRECCIA												
		Contains more mafic and less altered blocks than previous breccias. A few fault zones occur, very clayey but no evidence of mineralization. 95.1 - 96.9m: Clayey towards bottom i.e. fault. 96.9 - 98.8m: Badly broken and clayey. 98.8 - 99.9m: Badly broken with 2cm wide clay zone or vein.												
99.9	100.6m	TUFF												
		A few clay rich veins occur but no mineralization.												
	100.6m	END OF HOLE												

41

APPENDIX TWO

STATEMENT OF COSTS

STATEMENT OF COSTS FOR ASSESSMENT PURPOSES

Diamond Drill Hole H-81-16

Drilled 7 September 1981 330 metres x $ 35.00 per foot (111.3/m)	~~$ 11,550.00~~ 36729.00
Analyses done between 21 October and 28 December, 1981	
206 samples for 6 elements at $ 4.00/element	4,944.00
142 samples for I.C.P. at $ 5.50/sample	781.00
Analyses done between 28 December, 1981 and 1 February, 1982	
13 samples for 5 elements at $ 4.00/element	260.00
47 samples for 6 elements at $ 4.00/element	1,128.00
110 samples for I.C.P. at $ 5.50/sample	605.00
TOTAL COSTS	~~$ 19,268.00~~ 44447.00

TEK

GEOLOGICAL ASSOCIATION OF CANADA
W. MERCER
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APPENDIX THREE

I.C.P. RESULTS

I.C.P. ANALYSES OF DRILL CORE

All drill core samples were analyzed by Inductively Coupled Plasma Emission Spectroscopy by Acme Analytical Laboratories Ltd. of Vancouver. The purpose of this was as follows:

1) to check assays of drill core,
2) to determine levels of such environmentally important elements as As, Sb and Cd,
3) to give minor element information on the mineralization.

The analyses were done by digesting 0.5 grams in hot aqua regia for one hour and the sample diluted to 10 ml. The diluted sample is aspirated by I.C.P. and the analytical results are printed by telex either in percent or ppm.

The results are presented in the following format:

Report Format

```
HO/22N  385ØW
EGC

BURN # 1 GE16      15:46    3FEB1981
 IS
 1357
 MO      CU      PB      ZN      AG      NI      CO      MN     FE%      AS
 3.92    41.5    9.ØØ    136     .332    15.3    5.7Ø    312    3.167    5.73
 U       IS      TH      IS      CD      SB      BI      V      CA%      PY
 4.11    .371    .424    1Ø73    .96Ø    1.94    4.51    52.7   1.1Ø7    .2Ø6
 LA      IN      MG%     BA%     TI%     B       AL%     IS     IS       W
 22.1    3.5Ø    .2589   .Ø184   .ØØ14   -.Ø5    1.72Ø   Ø      3.Ø6     .276

*O/M1
EGC

BURN # 1  GE16     15:48    3FEB1981
  1358
  .563   29.3    34.6    171     .154    33.4    11.5    794    2.536    8.77
  3.57   .Ø44    2.79    765     1.Ø8    .635    4.25    54.8   .6452    .1Ø9
  6.42   2.88    .6ØØ8   .Ø252   .Ø753   -.37    1.944   Ø      2.32     -.61
```

Code :

HO, *O, EGC	Computer Intructions.
/22N 3850 W	Sample Number.
/M1	ACME Geochem standard for quality control.
15:46 3FEB1981	Time and Date of Analysis.
BURN # 1 GE16	Geochem Computer Program.
IS	Internal Standard.

The data is presented in the following pages. Sample numbers are as noted on the first page:

H-81-09-13 represents sample #13 on hole H-81-09.

The highest arsenic and antimony contents noted are 523 ppm and 40 ppm. There is no direct relationship between As, Sb and Zn contents. Hole H-81-10 has the highest zinc values, but not the highest As.

ACME ANALYTICAL LABORATORIES LTD.

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(604) 253-3158 TELEX 04-53124

ICP GEOCHEMICAL ANALYSES

A .500 GRAM OF SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 NITRIC ACID TO HYDROCHLORIC ACID TO WATER AT 90 DEG. C FOR 1 HOUR.
THE SAMPLE IS DILUTED WITH WATER TO 10.0 MLS.
THE RESULTS ARE REPORTED IN PPM EXCEPT FOR : FE, CA, P, MG, BA, AND AL WHICH IS IN PERCENT.
THIS LEACH IS PARTIAL FOR: CA, P, MG, AL, TI, LA, AND W.
VERY LITTLE BA IS DISSOLVED.
IS = INTERNAL STANDARD.
*

*HO/H-81-09 13 MATTAGAMI LAKE EXPL. LTD. FILE# 81-1343
EGC

BURN # 1 GE16 7:49 21SEPT81
IS
1342

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.8	13	17	57	.055	1.8	3.2	226	1.39	28
U	IS	TH	IS	CD	SB	BI	V	CA	P
1.1	-.4	2.1	702	-.3	2.5	.89	1.2	.19	.05
LA	IN	MG	BA	TI	B	AL	IS	IS	W
5.0	2.2	.05	.01	.00	6.4	.39	8.8	1.7	.04

:
*HO/H-81-09 14
EGC

BURN # 1 GE16 7:51 21SEPT81
1342

2.9	9.2	16	68	.067	1.7	3.2	664	1.32	161
3.9	-.3	2.2	824	-.2	3.5	.47	1.2	.24	.05
4.1	2.8	.05	.01	.00	5.7	.32	9.4	1.6	.44

:
*O/H-81-09 15
EGC

BURN # 1 GE16 7:51 21SEPT81
1341

2.4	8.3	20	70	.109	1.9	3.1	1114	1.27	31
2.5	-.4	1.8	828	-.2	2.8	1.8	1.7	.24	.05
5.2	2.3	.05	.01	.00	5.5	.32	8.6	1.7	.14

:
*O/H-81-09 18
EGC

BURN # 1 GE16 7:52 21SEPT81
1342

2.9	12	15	79	.106	2.9	3.4	139	1.27	37
2.6	-.3	1.9	567	-.2	4.6	5.0	.74	.13	.06
4.5	1.4	.03	.01	.00	6.9	.33	14	1.5	.70

:
*

D7

HO/H-81-Ø9 21
EGC

BURN # 1 GE16 7:53 21SEPT81
IS
1342

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
4.9	26	16	1Ø9	.345	14	12	1675	2.7Ø	121
U	IS	TH	IS	CD	SB	BI	V	CA	P
5.9	-.9	2.3	914	-.7	5.9	.72	6.6	.25	.1Ø
LA	IN	MG	BA	TI	B	AL	IS	IS	W
7.8	4.1	.Ø7	.Ø1	.ØØ	5.3	.27	12	2.7	.46

:
*HO/H-81-Ø9 22
EGC

BURN # 1 GE16 7:55 21SEPT81
1342

3.8	39	127	4Ø5	1.81	18	15	2282	2.88	282
5.4	-.9	2.5	1564	.87	7.3	1.2	26	.99	.12
11	4.8	.22	.Ø1	.ØØ	3.2	.38	34	3.8	-.3

:
*O/H-81-Ø9 23
EGC

BURN # 1 GE16 7:55 21SEPT81
1342

3.8	38	1Ø	89	.5Ø2	18	14	2Ø4Ø	2.98	19
5.3	-1.Ø	3.2	1456	-.6	7.Ø	.98	37	.75	.1Ø
14	5.3	.37	.Ø1	.ØØ	3.7	.39	41	4.Ø	-.2

:
*O/H-81-Ø9 24
EGC

BURN # 1 GE16 7:56 21SEPT81
1342

4.8	35	16	93	2.7Ø	18	14	1737	2.71	23
2.7	-.9	3.5	1677	-.1	7.7	1.9	57	1.3	.11
15	5.Ø	.77	.Ø1	.Ø1	5.2	.79	58	4.4	.2Ø

:
*O/H-81-Ø9 25
EGC

BURN # 1 GE16 7:57 21SEPT81
1342

4.7	33	31	99	1.47	18	14	2Ø11	2.76	69
5.5	-.9	3.3	1555	-.1	8.1	1.1	47	.91	.1Ø
15	5.1	.41	.Ø1	.Ø1	4.5	.57	39	4.Ø	-.2

:
*O/H-81-Ø9 26
EGC

BURN # 1 GE16 7:58 21SEPT81
1342

2.6	15	63	165	.21Ø	3.4	4.5	297	1.51	37
2.4	-.4	1.7	596	.24	3.Ø	.Ø5	1.3	.14	.Ø6
6.7	2.Ø	.Ø3	.Ø1	.ØØ	4.9	.36	18	1.8	.14

:
*

HO/H-81-Ø9 27
EGC

BURN # 1 GE16 7:59 21SEPT81

IS
1342

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.4	1Ø	81	334	.181	2.7	4.Ø	367	1.42	48
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.1	-.4	1.5	582	1.3	2.6	-.2	.7Ø	.14	.Ø6
LA	IN	MG	BA	TI	B	AL	IS	IS	W
5.Ø	2.1	.Ø2	.Ø1	.ØØ	4.2	.28	21	1.7	.Ø5

:
*HO/H-81-Ø9 28
EGC

BURN # 1 GE16 8:Ø1 21SEPT81

1342

4.9	16	79	297	.139	2.5	3.5	34Ø	1.38	37
.83	-.4	1.2	544	.86	4.Ø	-.3	.86	.12	.Ø6
4.3	1.6	.Ø3	.Ø1	.ØØ	5.6	.33	27	1.6	.22

:
*O/STD M-2
EGC

BURN # 1 GE16 8:Ø2 21SEPT81

1342

.61	3Ø	39	186	.325	37	15	828	2.45	8.3
.32	-.6	2.1	1241	.6Ø	1.2	1.2	57	.49	.1Ø
9.5	3.7	.62	.Ø3	.1Ø	6.1	1.5	69	4.2	.3Ø

:
*O/RE:H-81-Ø9 18
EGC

BURN # 1 GE16 8:Ø3 21SEPT81

1342

2.9	12	16	8Ø	.Ø8Ø	2.7	3.4	14Ø	1.27	37
1.Ø	-.3	1.9	56Ø	-.1	4.7	5.Ø	.68	.13	.Ø6
4.5	1.9	.Ø3	.Ø1	.ØØ	7.Ø	.33	14	1.5	.Ø7

:
*

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ICP GEOCHEMICAL ANALYSES

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THIS LEACH IS PARTIAL FOR: CA, P, MG, AL, TI, LA, AND W.
VERY LITTLE BA IS DISSOLVED.
IS = INTERNAL STANDARD.
*

* MATTAGAMI LAKE EXPLORATION
*HO/H-80-15 106 PROJECT: 117 FILE#81-1581 PAGE1
EGC

BURN # 1 GE16 14:23 21-OCT81
IS
1349

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
11	22	21	738	.801	9.4	10	1388	1.87	31
U	IS	TH	IS	CD	SB	BI	V	CA	P
1.7	1.0	1.4	2707	3.6	~~6.8~~ 5	1.6	8.1	1.0	.08
LA	IN	MG	BA	TI	B	AL	IS	IS	W
8.4	2.5	.44	.03	.00	10	.32	-19	2.5	1.9

:
*HO/107
EGC

BURN # 1 GE16 14:24 21-OCT81
1349

2.4	39	33	799	1.94	7.8	9.9	1181	1.96	23
1.5	1.1	1.4	2566	4.0	20	1.9	7.6	.93	.10
8.7	2.5	.30	.01	.00	10	.32	-28	2.5	1.6

:
*0/108
EGC

BURN # 1 GE16 14:25 21-OCT81
1349

6.8	22	80	3417	1.97	8.8	9.9	1794	2.74	40
2.5	1.2	2.7	2029	17	20	2.7	11	.54	.08
13	4.7	.41	.02	.00	12	.31	-185	2.6	~~5.6~~ 1

:
*0/109
EGC

BURN # 1 GE16 14:26 21-OCT81
1349

3.6	31	82	817	13.3	7.8	7.1	1515	1.68	28
-.3	.71	2.2	2930	3.8	22	1.1	1.7	1.3	.06
10	2.9	.36	.03	.00	10	.27	-19	2.8	2.2

Bt

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*

```
*HO/H-8Ø-15 116
EGC

BURN' # 1   GE16      14:32    21-OCT81
  IS
 1349
  MO     CU     PB     ZN     AG     NI     CO     MN     FE     AS
  3.7    18     697    1Ø38   3.ØØ   8.1    8.2    2155   1.88   46
  U      IS     TH     IS     CD     SB     BI     V      CA     P
  1.1    .71    1.8    2816   4.9    166    1.2    1.5    1.2    .Ø7
  LA     IN     MG     BA     TI     B      AL     IS     IS     W
  1Ø     3.3    .38    .Ø2    .ØØ    11     .31    -34    2.7    2.6
:
*HO/117
EGC

BURN # 1   GE16      14:33    21-OCT81
 1349
  3.6    16     .87    19Ø    6.85   7.4    7.6    199Ø   2.Ø3   24Ø
  1.2    .89    1.7    2942   .98    25     1.8    .99    1.3    .Ø6
  9.8    2.4    .39    .Ø2    .ØØ    11     .27    9.1    2.8    .9Ø
:
*0/ 118
EGC

BURN # 1   GE16      14:34    21-OCT81
 1349
  3.9    17     115    935    5.56   8.1    7.7    1565   1.77   15Ø
  1.3    .89    1.8    2718   4.6    18     2.Ø    1.2    1.Ø    .Ø6
  9.Ø    3.1    .32    .Ø2    .ØØ    1Ø     .31    -35    2.4    2.2
:
*

*0/119
EGC

BURN # 1   GE16      14:35    21-OCT81
 1349
  3.8    18     14Ø    346    1.96   8.2    7.7    1527   1.62   24
  1.4    .84    1.8    2812   1.7    29     1.7    2.Ø    1.1    .Ø6
  9.6    2.1    .35    .Ø1    .ØØ    9.5    .29    4.3    2.4    1.3
:
*0/12Ø
EGC

BURN # 1   GE16      14:36    21-OCT81
 1349
  3.9    17     .67    213    2.1Ø   7.5    7.3    1399   1.71   57
  2.6    .95    1.7    297Ø   1.1    23     1.3    2.Ø    1.3    .Ø6
  9.4    2.3    .39    .Ø1    .ØØ    1Ø     .31    .11    2.6    .78
:
*0/121
EGC

BURN # 1   GE16      14:37    21-OCT81
 1349
  1.8    15     .53    176    1.38   7.4    7.4    15Ø8   1.7Ø   14
  .85    .95    1.7    3Ø14   .83    16     1.1    2.3    1.4    .Ø6
  1Ø.Ø   2.5    .42    .Ø1    .ØØ    11     .28    9.9    2.7    1.1
:
*
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*HO/H-80-15 110
EGC

BURN # 1  GE16      14:27    21-OCT81
  IS
  1349
  MO      CU      PB      ZN      AG      NI      CO      MN      FE      AS
  3.4     19      35      421     .711    7.6     7.9     1505    1.67    21
  U       IS      TH      IS      CD      SB      BI      V       CA      P
  2.2     .87     1.7     3324    2.0     2.7     2.5     3.1     2.1     .07
  LA      TN      MG      BA      TI      B       AL      IS      IS      W
  9.4     3.0     .47     .05     .00     9.0     .27     -5      3.3     1.2
:
*HO/111
EGC

BURN # 1  GE16      14:28    21-OCT81
  1349
  2.3     17      72      497     .924    8.3     8.4     1269    1.89    23
  .97     .94     1.9     2981    2.2     14      1.6     4.1     1.4     .07
  10      3.0     .49     .03     .00     11      .31     -9      2.9     1.3
:
*0/112
EGC

BURN # 1  GE16      14:29    21-OCT81
  1349
  2.9     24      36      657     3.30    8.7     8.3     1203    2.23    116
  -.2     1.3     1.9     2975    2.8     7.8     1.3     2.2     1.4     .07
  10.0    2.9     .47     .01     .00     13      .32     -16     3.0     2.1
:
*0/113
EGC

BURN # 1  GE16      14:30    21-OCT81
  1349
  4.9     27      313     4380    3.45    6.8     8.8     1222    2.55    257
  .91     1.6     1.7     2532    22      43      2.1     .10     .87     .06
  9.3     4.0     .25     .01     .00     12      .28     -257    2.6     13
:
*0/114
EGC

BURN # 1  GE16      14:30    21-OCT81
  1349
  4.2     11      72      884     1.46    7.1     6.5     1700    1.76    49
  1.9     .73     1.7     2838    4.4     14      1.7     2.0     1.2     .06
  9.6     2.2     .36     .01     .00     10      .32     -30     2.6     1.5
:
*0/115
EGC

BURN # 1  GE16      14:31    21-OCT81
  1349
  3.3     18      149     661     10.2    7.4     6.9     1710    1.66    122
  3.0     .85     1.4     2822    3.0     25      1.2     1.7     1.2     .06
  8.9     2.5     .36     .01     .00     9.5     .30     -18     2.5     1.7
:
*
```

*HO/H-8Ø-15 122
EGC

BURN # 1 GE16 14:38 21-OCT81

IS
1349

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
1.6	15	62	218	1.27	7.4	7.3	184Ø	1.71	24
U	IS	TH	IS	CD	SB	BI	V	CA	P
1.Ø	.66	1.4	3ØØ9	1.2	21	1.1	2.1	1.4	.Ø6
LA	TN	MG	BA	TI	B	AL	IS	IS	W
9.7	2.9	.41	.Ø1	.ØØ	1Ø	.28	-2	2.8	.85

:
*HO/123
EGC

BURN # 1 GE16 14:39 21-OCT81

1349

1.7	17	192	967	1.93	8.Ø	7.2	2688	1.96	27
.54	.53	1.6	2641	4.4	.25	1.Ø	.99	.92	.Ø6
9.1	3.4	.34	.Ø1	.ØØ	11	.28	-4Ø	2.3	2.6

:
*O/124A
EGC

BURN # 1 GE16 14:4Ø 21-OCT81

1349

3.5	16	2Ø	197	.727	6.4	6.8	941	1.67	15
1.8	1.Ø	2.4	3Ø95	1.3	1.4	2.2	2.7	1.5	.Ø6
11	1.9	.48	.Ø1	.ØØ	11	.29	13	3.Ø	1.Ø

:
*O/124B
EGC

BURN # 1 GE16 14:41 21-OCT81

1349

3.8	17	18	2Ø6	.675	6.7	6.8	95Ø	1.68	15
.71	1.1	2.5	3143	1.1	1.1	2.5	2.6	1.5	.Ø6
11	2.3	.49	.Ø1	.ØØ	11	.29	13	3.Ø	.82

:
*O/125
EGC

BURN # 1 GE16 14:42 21-OCT81

1349

6.7	29	185	5Ø94	5.21	9.1	11	1761	3.61	523
.25	2.1	1.5	123Ø	25	4Ø	1.6	-2	.22	.Ø6
12	5.2	.16	.Ø1	.ØØ	15	.3Ø	-373	2.2	~~19~~ /

:
*O/126
EGC

BURN # 1 GE16 14:43 21-OCT81

1349

4.Ø	1Ø3	371	1Ø751	5.67	6.6	9.8	1518	3.57	134
.98	2.2	2.1	2384	8Ø	29	2.6	-2	.69	.Ø6
12	5.2	.27	.Ø1	.ØØ	14	.29	-1152	2.7	~~64~~ /

:
*

HO/H-8Ø-15 127
EGC

BURN # 1 GE16 15:Ø4 21-OCT81

IS
1348

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.9	15	44	2405	1.2Ø	7.5	6.3	1Ø57	2.34	35
U	IS	TH	IS	CD	SB	BI	V	CA	P
.2Ø	1.5	2.3	2626	12	1.1	2.1	1.6	.88	.Ø6
LA	IN	MG	BA	TI	B	AL	IS	IS	W
11	2.9	.39	.Ø1	.ØØ	13	.3Ø	-143	2.4	~~5.9~~

:
*HO/128
EGC

BURN # 1 GE16 15:Ø5 21-OCT81

1349

4.Ø	.33	74	3451	1.15	5.9	6.7	842	1.89	44
2.1	1.3	2.4	2676	19	2.2	2.7	1.6	.91	.Ø5
1Ø	3.3	.33	.Ø1	.ØØ	12	.24	-23Ø	2.3	~~5.7~~

:
*0/129
EGC

BURN # 1 GE16 15:Ø6 21-OCT81

1348

3.9	16	29	511	1.1Ø	7.Ø	7.3	1Ø11	1.79	43
.29	1.3	2.7	3Ø57	2.7	1.8	1.7	2.1	1.3	.Ø6
11	2.3	.43	.Ø1	.ØØ	11	.31	-16	2.6	1.7

:
*0/13Ø
EGC

BURN # 1 GE16 15:Ø6 21-OCT81

1348

3.5	18	32	366	1.14	7.5	7.7	1ØØ9	1.64	21
.67	1.2	2.6	3136	1.9	2.Ø	1.7	1.7	1.4	.Ø6
1Ø	3.2	.44	.Ø2	.ØØ	11	.3Ø	-7	2.6	1.1

:
*0/131
EGC

BURN # 1 GE16 15:Ø7 21-OCT81

1348

3.8	21	27	927	.895	7.8	7.5	1Ø94	1.86	16
1.4	1.2	2.3	3Ø91	4.9	2.Ø	1.5	2.1	1.4	.Ø7
11	3.5	.47	.Ø4	.ØØ	12	.28	-35	2.8	1.4

:
*0/132
EGC

BURN # 1 GE16 15:Ø8 21-OCT81

1348

3.9	14	54	2541	1.Ø7	6.5	7.4	1Ø42	2.Ø1	24
1.5	1.3	2.1	3Ø4Ø	14	2.5	2.5	2.2	1.3	.Ø6
11	3.6	.42	.Ø2	.ØØ	13	.27	-139	2.8	~~6.2~~

:
*

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*HO/H-8Ø-15 133
EGC

BURN # 1   GE16        15:Ø9    21-OCT81
  IS
 1348
  MO      CU      PB      ZN      AG      NI      CO      MN      FE      AS
  3.3     14      35      53Ø     .814    7.2     8.8     1ØØØ    1.78    115
  U       IS      TH      IS      CD      SB      BI      V       CA      P
  .92     1.2     2.2     3147    2.8     1.4     1.8     2.3     1.4     .Ø7
  LA      IN      MG      BA      TI      B       AL      IS      IS      W
  12      3.Ø     .46     .Ø4     .ØØ     14      .28     -15     2.9     1.1
:
*HO/134
EGC

BURN # 1   GE16        15:1Ø    21-OCT81
 1348
  3.9     14      28      425     .716    7.7     7.9     1ØØ5    1.7Ø    2Ø
  .34     1.1     2.3     3171    2.3     .73     2.Ø     2.4     1.4     .Ø6
  11      3.5     .45     .Ø4     .ØØ     1Ø      .27     -9      3.Ø     1.2
:
*0/135
EGC

BURN # 1   GE16        15:11    21-OCT81
 1348
  3.8     2Ø      24      1368    .812    8.Ø     13      1159    2.Ø1    383
  1.5     1.4     2.Ø     3317    6.4     3.4     1.7     1.8     1.6     .Ø6
  11      3.Ø     .5Ø     .Ø2     .ØØ     12      .25     -72     3.2     3.2
:
*0/136
EGC

BURN # 1   GE16        15:11    21-OCT81
 1349
  3.6     16      22      996     .759    7.6     7.2     1Ø56    1.83    16
  1.6     1.2     2.2     32Ø2    4.9     2.6     1.9     2.7     1.5     .Ø6
  12      2.9     .48     .Ø1     .ØØ     12      .3Ø     -45     3.Ø     2.1
:
*0/137
EGC

BURN # 1   GE16        15:12    21-OCT81
 1349
  4.1     17      18      46Ø     .663    7.4     7.2     995     1.68    16
  -.4     1.2     2.1     3225    2.2     .89     2.2     2.8     1.6     .Ø6
  11      2.3     .49     .Ø1     .ØØ     12      .28     -7      3.Ø     1.2
:
*0/138
EGC

BURN # 1   GE16        15:13    21-OCT81
 1348
  3.6     18      19      34Ø     .717    7.2     7.1     1Ø23    1.62    17
  .71     1.Ø     2.2     3183    1.6     .57     1.8     2.7     1.5     .Ø6
  12      2.5     .48     .Ø1     .ØØ     11      .32     -8      2.9     .79
:
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```

*HO/H-80-15 139
EGC

BURN # 1 GE16 15:14 21-OCT81
IS
1349

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.7	19	29	305	.816	7.4	7.3	1121	1.64	15
U	IS	TH	IS	CD	SB	BI	V	CA	P
.25	.94	2.3	3149	1.5	1.4	2.0	2.5	1.4	.06
LA	IN	MG	BA	TI	B	AL	IS	IS	W
12	2.5	.47	.04	.00	12	.29	2.0	2.9	.67

:
*HO/140
EGC

BURN # 1 GE16 15:15 21-OCT81
1349

4.1	15	28	467	.775	7.0	6.8	927	1.65	12
.66	1.2	2.3	3270	2.2	1.1	2.3	2.4	1.6	.06
11	2.0	.46	.01	.00	10	.29	-15	3.1	.57

:
*0/141
EGC

BURN # 1 GE16 15:16 21-OCT81
1349

4.5	28	73	7126	1.57	6.1	8.8	1040	2.58	148
2.4	2.0	2.0	3078	36	1.6	2.6	3.0	1.3	.06
12	11	.39	.01	.00	15	.27	-632	3.0	28

:
*0/RE: H-80-15 124A
EGC

BURN # 1 GE16 15:18 21-OCT81
1348

3.5	15	19	198	.662	6.8	6.5	923	1.62	14
2.7	1.1	2.4	3240	1.2	.92	2.3	2.4	1.5	.06
12	2.2	.47	.01	.00	12	.27	9.5	3.0	1.3

:
*0/STD M-2
EGC

BURN # 1 GE16 15:18 21-OCT81
1348

1.5	30	35	195	.183	36	16	867	2.52	5.7
.73	1.9	2.1	1883	1.4	.09	1.4	56	.42	.11
16	1.4	.63	.02	.10	15	1.6	53	3.5	1.1

:
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ACME ANALYTICAL LABORATORIES LTD.

852 E HASTINGS ST. VANCOUVER, B.C. V6A 9R6
(604) 253-3158 TELEX 04-53124

ICP GEOCHEMICAL ANALYSES

A .500 GRAM OF SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 NITRIC ACID
TO HYDROCHLORIC ACID TO WATER AT 90 DEG. C FOR 1 HOUR.
THE SAMPLE IS DILUTED WITH WATER TO 10.0 MLS.
THE RESULTS ARE REPORTED IN PPM EXCEPT FOR : FE, CA, P, MG, BA, AND
AL WHICH IS IN PERCENT.
THIS LEACH IS PARTIAL FOR: CA, P, MG, AL, TI, LA, AND W.
VERY LITTLE BA IS DISSOLVED.
IS = INTERNAL STANDARD.
*

*HO/H-80-15 143 MATTAGAMI FILE# 81-1581 PAGE 2
EGC

BURN # 1 GE16 20:24 21-OCT81 * Assay required
IS
1351

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.4	13	24	538	.689	7.6	6.9	964	1.71	25
U	IS	TH	IS	CD	SB	BI	V	CA	P
5.2	1.1	2.4	2868	3.2	.41	1.6	3.3	1.7	.06
LA	IN	MG	BA	TI	B	AL	IS	IS	W
9.0	2.9	.48	.02	.00	11	.30	2.6	2.8	1.8

:
*HO/ 144
EGC

BURN # 1 GE16 20:25 21-OCT81
1351

4.6	51	70	5325	2.64	8.1	10	975	4.73	43
4.6	3.1	2.3	1993	.30	6.9	1.5	1.3	.56	.07
11	5.0	.36	.01	.00	13	.28	-170	2.7	~~23~~ 2

:
*0/ 145
EGC

BURN # 1 GE16 20:26 21-OCT81
1351

3.5	16	26	1581	.894	7.6	6.7	970	2.14	17
5.9	1.5	2.3	2797	8.7	-.4	2.6	3.7	1.7	.07
9.4	3.8	.46	.01	.00	9.8	.27	-3	3.0	~~4.1~~ /

:
*0/ 146
EGC

BURN # 1 GE16 20:27 21-OCT81
1351

4.0	14	21	1508	.942	7.9	7.4	978	2.18	16
2.8	1.7	2.3	2567	7.7	.74	2.2	2.9	1.2	.07
9.4	4.1	.47	.01	.00	10	.27	-8	2.6	~~4.7~~ /

:
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BK

*HO/H-8Ø-15 147
EGC

BURN # 1 GE16 2Ø:28 21-OCT81
IS
1351

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.3	16	12	5Ø1	.612	6.4	6.3	995	1.8Ø	15
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.5	1.1	2.4	2715	2.7	.61	1.5	3.2	1.5	.Ø6
LA	IN	MG	BA	TI	B	AL	IS	IS	W
1Ø	2.9	.51	.Ø1	.ØØ	14	.29	7.8	2.9	1.5

:
*HO/148
EGC

BURN # 1 GE16 2Ø:29 21-OCT81
1351

3.6	41	68	5875	2.22	8.1	9.Ø	799	3.45	39
3.6	2.5	2.3	2174	32	2.2	2.3	2.8	.72	.Ø6
9.4	7.2	.31	.Ø1	.ØØ	14	.29	-241	2.5	~~26~~

:
*0/149
EGC

BURN # 1 GE16 2Ø:3Ø 21-OCT81
1351

3.9	11	33	888	1.ØØØ	6.6	4.8	1ØØ7	1.97	9.4
3.Ø	1.3	2.5	2718	4.6	-1	1.7	3.9	1.4	.Ø7
11	3.2	.49	.Ø1	.ØØ	12	.29	4.3	2.8	2.7

:
*0/15Ø
EGC

BURN # 1 GE16 2Ø:31 21-OCT81
1351

3.4	13	16	74	.634	5.9	6.7	948	1.7Ø	12
3.4	1.1	2.7	2768	1.82	.95	1.6	4.3	1.5	.Ø6
1Ø	1.8	.52	.Ø1	.ØØ	8.8	.28	19	2.9	.7Ø

:
*0/151
EGC

BURN # 1 GE16 2Ø:32 21-OCT81
1352

3.6	12	16	257	.643	7.5	7.6	963	1.75	19
2.1	1.Ø	2.6	2726	1.6	1.1	1.6	4.5	1.5	.Ø7
1Ø	2.7	.52	.Ø4	.ØØ	8.6	.28	2Ø	2.9	1.4

:
*0/152
EGC

BURN # 1 GE16 2Ø:33 21-OCT81
1352

3.6	21	54	3093	1.19	7.Ø	6.7	9Ø8	2.6Ø	18
4.Ø	1.7	2.3	2265	17	2.6	2.2	6.Ø	.85	.Ø7
9.9	3.7	.42	.Ø1	.ØØ	9.4	.26	-65	2.4	~~9.3~~

:
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*HO/H-80-15 153
EGC

BURN # 1 GE16 20:35 21-OCT81
IS
1352

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
5.7	10	18	537	.591	5.7	6.8	993	1.93	15
U	IS	TH	IS	CD	SB	BI	V	CA	P
3.4	1.3	2.4	2692	3.3	1.4	2.4	4.6	1.3	.06
LA	IN	MG	BA	TI	B	AL	IS	IS	W
10	2.2	.52	.01	.00	7.7	.23	9.4	2.8	1.6

:
*HO/154
EGC

BURN # 1 GE16 20:36 21-OCT81
1351

3.7	18	28	<u>2397</u>	.811	7.2	5.4	974	2.26	13
4.2	1.5	2.4	2438	13	2.5	1.7	5.1	1.00	.07
10	4.1	.47	.02	.00	9.6	.29	-38	2.5	~~6.6~~ /

:
*0/155
EGC

BURN # 1 GE16 20:36 21-OCT81
1352

3.1	17	32	<u>2484</u>	1.07	7.2	7.2	1065	2.48	19
3.2	1.8	2.4	2476	14	.11	2.4	4.1	1.0	.07
10	4.3	.51	.01	.00	11	.29	-36	2.6	~~2.7~~ /

:
*0/156
EGC

BURN # 1 GE16 20:37 21-OCT81
1352

5.1	19	24	<u>3232</u>	1.30	7.5	5.5	948	3.07	15
4.2	2.0	2.3	1792	18	1.4	1.9	2.8	.50	.07
10	5.8	.39	.02	.00	11	.26	-69	2.1	~~10~~ /

:
*0/157
EGC

BURN # 1 GE16 20:38 21-OCT81
1351

5.4	27	35	<u>3742</u>	1.77	7.5	6.6	1124	4.04	13
4.1	2.4	2.2	1788	21	4.0	2.2	1.7	.47	.07
11	7.5	.44	.01	.00	13	.28	-77	2.6	~~13~~ /

:
*0/158
EGC

BURN # 1 GE16 20:39 21-OCT81
1351

4.2	43	96	<u>9027</u>	3.87	7.3	11	943	4.71	18
3.8	3.1	2.1	1676	61	5.1	3.9	-.7	.39	.06
11	11	.36	.01	.00	14	.26	-514	2.5	~~55~~ /

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*HO/H-80-15 159
EGC

BURN # 1 GE16 20:40 21-OCT81
IS
1352

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
7.2	17	23	2766	1.06	7.1	6.4	1009	2.46	15
U	IS	TH	IS	CD	SB	BI	V	CA	P
3.2	1.5	2.5	2317	15	1.1	1.5	3.6	.92	.07
LA	IN	MG	BA	TI	B	AL	IS	IS	W
9.6	4.5	.45	.01	.00	10	.31	-47	2.4	~~9.1~~

:
*HO/160
EGC

BURN # 1 GE16 20:41 21-OCT81
1352

4.0	9.3	19	446	.675	7.8	7.6	1082	1.97	19
2.2	1.2	2.7	2612	2.8	.69	2.3	4.4	1.3	.07
9.9	2.8	.54	.04	.00	9.2	.31	13	2.9	1.1

:
*0/161
EGC

BURN # 1 GE16 20:42 21-OCT81
1352

2.8	31	71	6117	2.27	7.5	8.1	893	3.53	24
3.5	2.3	2.2	1311	37	2.2	2.2	2.9	.28	.07
10	6.6	.33	.01	.00	12	.27	-273	2.0	~~.28~~

:
*0/162
EGC

BURN # 1 GE16 20:43 21-OCT81
1351

4.8	11	30	1994	1.09	5.6	5.7	979	2.51	14
4.3	1.7	2.4	2174	11	-.1	1.7	3.8	.77	.06
10.0	4.6	.45	.01	.00	9.9	.29	-16	2.4	~~5.8~~

:
*0/. RE: H-81-10 146
EGC

BURN # 1 GE16 20:44 21-OCT81
1351

3.8	14	24	1356	.882	7.6	7.0	922	2.05	17
3.6	1.5	2.2	2540	7.1	-.1	1.5	3.1	1.1	.06
8.9	3.5	.44	.01	.00	8.2	.26	-4	2.5	~~4.0~~

:
*0/ STD M-2
EGC

BURN # 1 GE16 20:44 21-OCT81
1351

1.2	30	39	195	.243	35	.16	838	2.50	11
.94	1.8	2.4	1630	1.5	-.2	1.1	56	.40	.11
13	2.6	.64	.02	.10	12	1.7	61	2.9	1.5

:
*

*HO/H-8Ø-15 169B
EGC

BURN # 1 GE16 2Ø:48 21-OCT81

IS
1351

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.6	19	223	4Ø6	2.29	8.4	8.2	697Ø	2.51	38
U	IS	TH	IS	CD	SB	BI	V	CA	P
.44	-1	.95	473	2.2	8.Ø	1.2	.35	.Ø8	.Ø4
LA	IN	MG	BA	TI	B	AL	IS	IS	W
11	3.3	.Ø4	.Ø3	.ØØ	1Ø	.26	-.9	1.5	.78

:
*HO/H-81-1Ø 166
EGC

BURN # 1 GE16 2Ø:51 21-OCT81

1351

2.3	16	871	1121	4.4Ø	9.3	8.3	7981	2.91	237
.99	-1	1.6	751	6.Ø	24	1.8	-.4	.13	.Ø7
8.7	3.8	.Ø5	.Ø1	.ØØ	11	.26	-21	1.7	2.8

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*0/
EGC

BURN # 1 GE16 2Ø:52 21-OCT81

1351

2.4	16	892	1138	4.54	9.8	8.3	8Ø76	2.95	238
.59	-1	1.6	746	5.9	24	1.8	-.3	.13	.Ø7
8.3	3.6	.Ø5	.Ø1	.ØØ	11	.26	-14	1.9	2.9

:
*0/H-81-1Ø 166B
EGC

BURN # 1 GE16 2Ø:54 21-OCT81

1351

2.8	43	29Ø8	* 1Ø682	* 23.4	12	8.4	4Ø75	3.18	215
1.5	.43	2.2	1ØØ3	76	58	1.7	1.Ø	.19	.12
9.1	5.8	.Ø3	.Ø1	.ØØ	12	.28	-811	1.8	~~7Ø~~

:
*0/ 168
EGC

BURN # 1 GE16 2Ø:55 21-OCT81

1351

3.6	15	1Ø96	1946	5.89	8.5	8.1	7654	2.86	148
.89	-1	1.5	799	11	9.4	1.5	-.4	.14	.Ø8
9.Ø	3.5	.Ø5	.Ø1	.ØØ	9.6	.29	-39	1.8	~~5.4~~

:
*0/ 169
EGC

BURN # 1 GE16 2Ø:56 21-OCT81

1351

3.4	26	4359	6715	24.2	9.Ø	6.9	4111	2.24	157
1.9	-.Ø	1.7	759	45	29	1.4	.32	.13	.Ø8
7.5	3.7	.Ø3	.Ø1	.ØØ	9.5	.28	-32Ø	1.3	~~3Ø~~

:
*

*HO/H-81-10 170
EGC

BURN # 1 GE16 20:57 21-OCT81

IS
1351

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.4	12	420	838	2.08	8.8	8.4	4388	1.89	43
U	IS	TH	IS	CD	SB	BI	V	CA	P
-.8	-.4	.98	420	4.8	5.1	1.2	.70	.07	.03
LA	IN	MG	BA	TI	B	AL	IS	IS	W
8.1	2.6	.04	.01	.00	8.8	.27	-14	1.1	2.0

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*O
*HO/171
EGC

BURN # 1 GE16 20:59 21-OCT81

1351

2.0	12	298	478	2.15	6.7	8.2	6187	2.40	43
.60	-.9	.81	704	2.8	8.0	1.4	.62	.12	.07
7.4	3.0	.04	.01	.00	10	.27	.37	1.4	1.3

:
*O/172
EGC

BURN # 1 GE16 20:59 21-OCT81

1351

1.9	26	2572	2767	14.1	8.8	8.1	5361	2.55	44
-.0	-.4	1.2	848	19	20	.87	.82	.15	.09
7.7	4.3	.04	.01	.00	10	.31	-83	1.5	~~9.3~~

:
*O/173
EGC

BURN # 1 GE16 21:00 21-OCT81

1351

2.0	13	376	566	2.60	7.9	7.6	9184	3.70	39
-.81	-2	.57	614	3.2	7.0	1.7	-1	.09	.05
9.5	4.0	.05	.01	.00	13	.27	-2	2.2	1.4

:
*O/
EGC

BURN # 1 GE16 21:01 21-OCT81

1351

.19	2.9	277	345	1.53	1.6	1.4	1565	.620	8.8
-.0	-.2	-.0	105	1.9	.50	1.2	.15	.02	.01
1.7	1.6	.01	.00	.00	2.0	.05	3.7	1.7	.09

:
*O/174
EGC

BURN # 1 GE16 21:03 21-OCT81

1351

2.3	18	1498	1836	8.54	8.8	7.9	7485	3.54	57
.86	-.8	.54	634	11	16	1.9	-1	.10	.05
9.1	3.3	.06	.01	.00	11	.28	-42	2.0	~~5.2~~

:
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*HO/H-81-1Ø 175
EGC

BURN # 1 GE16 21:Ø4 21-OCT81
IS
1351

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.4	18	2297	33ØØ	1Ø.5	8.Ø	7.1	6286	3.24	64
U	IS	TH	IS	CD	SB	BI	V	CA	P
1.8	-.4	1.2	798	21	14	1.8	.Ø4	.14	.Ø8
LA	IN	MG	BA	TI	B	AL	IS	IS	W
9.8	4.1	.Ø7	.Ø2	.ØØ	12	.31	-1Ø8	1.9	~~11~~

:
*HO/176
EGC

BURN # 1 GE16 21:Ø5 21-OCT81
1351

2.1	12	285	446	2.Ø5	8.3	7.8	69Ø4	3.18	27
-.8	-.8	1.Ø	562	2.5	8.2	1.3	.23	.Ø9	.Ø5
1Ø	2.9	.Ø6	.Ø1	.ØØ	14	.26	-2	1.8	1.5

:
*O/177
EGC

BURN # 1 GE16 21:Ø6 21-OCT81
1351

2.5	18	83Ø	858	4.41	8.9	8.2	422Ø	2.28	29
1.5	-.1	1.4	463	4.8	7.5	.66	2.4	.Ø7	.Ø4
8.9	3.4	.Ø4	.Ø1	.ØØ	9.9	.26	-14	1.3	2.3

:
*O/178
EGC

BURN # 1 GE16 21:Ø6 21-OCT81
1351

2.2	33	3474	65Ø5	16.6	9.1	7.5	3Ø87	2.46	51
2.2	.49	1.ØØ	499	46	2Ø	1.6	.73	.Ø8	.Ø4
9.3	4.8	.Ø3	.Ø1	.ØØ	12	.27	-367	1.3	~~3Ø~~

:
*O/179
EGC

BURN # 1 GE16 21:Ø7 21-OCT81
1351

1.9	14	11Ø6	1338	5.27	6.8	7.Ø	5795	2.67	22
1.5	-.4	.94	641	8.1	7.Ø	1.1	2.7	.11	.Ø6
8.7	2.9	.Ø5	.Ø1	.ØØ	13	.29	-29	1.6	3.4

:
*O/18Ø
EGC

BURN # 1 GE16 21:Ø8 21-OCT81
1351

1Ø	24	488	357	2.4Ø	8.6	8.6	5Ø43	2.16	2Ø
-.2	-.6	1.2	387	2.1	6.4	.62	4.1	.Ø6	.Ø3
1Ø	2.7	.Ø4	.Ø1	.ØØ	1Ø	.26	4.8	1.3	.85

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O/H-81-10 181
EGC

BURN # 1 GE16 21:09 21-OCT81
1351

2.7	8.1	196	221	1.16	8.8	8.2	5786	2.46	25
.76	-.7	1.1	406	1.2	4.8	1.4	4.0	.06	.03
10	2.3	.04	.01	.00	9.9	.27	9.3	1.5	.26

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O/STD M-2
EGC

BURN # 1 GE16 21:10 21-OCT81
1351

1.3	30	38	192	.239	36	16	862	2.53	10
1.3	1.7	2.1	1623	1.3	.75	1.3	56	.41	.11
13	2.9	.64	.02	.10	12	1.7	60	3.2	.66

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ACME ANALYTICAL LABORATORIES LTD.

852 E HASTINGS ST. VANCOUVER, B.C. V6A 9R6
(604) 253-3158 TELEX 04-53124

ICP GEOCHEMICAL ANALYSES

A .500 GRAM OF SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 NITRIC ACID TO HYDROCHLORIC ACID TO WATER AT 90 DEG. C FOR 1 HOUR.
THE SAMPLE IS DILUTED WITH WATER TO 10.0 MLS.
THE RESULTS ARE REPORTED IN PPM EXCEPT FOR : FE, CA, P, MG, BA, AND AL WHICH IS IN PERCENT.
THIS LEACH IS PARTIAL FOR: CA, P, MG, AL, TI, LA, AND W.
VERY LITTLE BA IS DISSOLVED.
IS = INTERNAL STANDARD.
*

*HO/H-81-10 182 MATTAGAMI FILE# 81-1581 PAGE 3
EGC

* assay required

BURN # 1 GE16 21:34 21-OCT81
IS
1347

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.2	9.0	298	311	1.65	8.7	8.3	6213	2.75	36
U	IS	TH	IS	CD	SB	BI	V	CA	P
.36	-.5	1.6	658	1.6	6.3	.79	3.8	.11	.07
LA	IN	MG	BA	TI	B	AL	IS	IS	W
11	3.2	.05	.02	.00	12	.33	6.1	1.6	.74

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*0
*HO/183
EGC

BURN # 1 GE16 21:36 21-OCT81
1347

4.2	23	2132	4331	9.94	9.9	8.7	5527	3.45	98
1.5	.05	1.2	580	27	~~12~~ 8	.86	2.8	.09	.06
10.0	4.1	.05	.01	.00	14	.30	-202	1.8	~~17~~ /

:
*0/184
EGC

BURN # 1 GE16 21:36 21-OCT81
1347

2.5	31	1858	5146	12.0	8.8	6.4	6054	4.20	114
2.2	.42	1.2	822	33	~~17~~ 7	1.1	-.1	.14	.08
.10	4.5	.06	.01	.00	15	.32	-238	2.2	~~22~~ /

:
*0/185
EGC

BURN # 1 GE16 21:37 21-OCT81
1347

2.3	22	1912	4230	8.88	8.2	8.1	5476	3.40	99
1.1	.24	1.2	634	28	12	1.6	.43	.10	.05
9.1	2.9	.06	.01	.00	13	.31	-194	1.7	~~16~~ /

BC

:
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*HO/H-81-10 186
EGC

BURN # 1 GE16 21:38 21-OCT81

IS									
1347	CU	PB	ZN	AG	NI	CO	MN	FE	AS
MO	10	549	709	2.87	9.7	7.9	5304	2.84	66
2.4	IS	TH	IS	CD	SB	BI	V	CA	P
U	.02	1.3	525	3.8	6.0	1.0	1.1	.08	.04
1.3	IN	MG	BA	TI	B	AL	IS	IS	W
LA	2.7	.05	.01	.00	11	.31	-9	1.4	2.0
9.1									

:
*HO/ 187
EGC

BURN # 1 GE16 21:40 21-OCT81

1347									66
2.3	.12	1251	1341	5.80	8.1	8.3	6185	3.26	.04
1.1	-.3	1.2	563	7.3	7.8	.60	.46	.09	3.7
8.6	3.4	.07	.01	.00	13	.28	-31	1.6	

:
*0/ 188
EGC

BURN # 1 GE16 21:41 21-OCT81

1347									81
3.3	16	2622	2742	11.6	7.6	7.5	5073	3.02	.05
1.9	.18	1.4	546	17	11	1.5	2.1	.08	~~9.1~~ /
8.2	3.6	.06	.01	.00	12	.29	-95	1.5	

:
*0/ 189
EGC

BURN # 1 GE16 21:41 21-OCT81

1347									185
3.3	89	5477	21907	28.3	12	9.9	5307	6.57	.04
-.0	2.1	.95	621	221	~~34~~ 2	3.0	-5	.07	~~348~~ /
12	12	.05	.00	.00	15	.27	-4119	2.8	

:
*0/ 189 (10X DILUTED)
EGC

BURN # 1 GE16 21:46 21-OCT81

1347									22
.09	10	678	3880	3.25	1.4	1.2	685	.710	.01
-.4	.24	-.0	63	27	2.5	.54	-.3	.01	~~13~~ /
1.4	2.1	.01	.00	.00	2.0	.03	-190	.04	

:
*0/ 190
EGC

BURN # 1 GE16 21:47 21-OCT81

1347									.67
2.4	.20	2448	2874	10.1	8.4	8.6	4389	2.82	.05
1.1	.31	1.0	592	17	11	1.6	1.4	.10	~~9.2~~ /
7.4	3.6	.05	.01	.00	11	.31	-106	1.4	

:
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*HO/H-81-10 191
EGC

BURN # 1 GE16 21:48 21-OCT81
IS
1347

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.4	11	351	509	1.87	6.9	7.9	5893	2.73	27
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.1	-.4	.99	607	2.9	5.2	.71	2.6	.10	.05
LA	IN	MG	BA	TI	B	AL	IS	IS	W
9.2	3.3	.05	.01	.00	12	.31	-.2	1.6	1.6

:
* HO/192
EGC

BURN # 1 GE16 21:49 21-OCT81
1347

9.0	11	230	430	1.45	8.0	8.3	5216	2.42	24
1.6	-.5	1.3	601	2.3	4.9	.72	3.4	.10	.05
9.9	2.4	.04	.01	.00	12	.32	2.9	1.4	.59

:
*0/193
EGC

BURN # 1 GE16 21:50 21-OCT81
1347

2.6	10	337	438	1.83	7.6	-.1	5696	2.76	24
-.3	-.3	1.3	529	2.3	4.9	1.1	2.9	.08	.04
8.7	3.0	.05	.01	.00	12	.31	2.8	1.5	1.2

:
*0/194
EGC

BURN # 1 GE16 21:51 21-OCT81
1347

2.6	16	1757	2201	9.29	7.4	7.7	5452	2.89	37
1.4	-.1	.84	505	13	8.5	1.6	2.2	.08	.04
8.2	3.0	.05	.01	.00	13	.28	-69	1.5	~~6.9~~

:
*0/195
EGC

BURN # 1 GE16 21:52 21-OCT81
1347

3.2	52	6762	13098 *	33.2 *	11	9.9	6094	4.76	75
-1	.52	.74	405	103	31	2.5	-.3	.05	.02
-11	6.2	.06	.01	.00	14	.26	-1381	2.2	~~109~~

:
*0/196
EGC

BURN # 1 GE16 21:53 21-OCT81
1347

3.8	15	1291	2091	6.65	8.5	8.0	5197	3.08	63
.75	-.1	1.2	476	12	8.1	.60	2.8	.07	.03
8.3	2.8	.06	.01	.00	13	.27	-62	1.5	~~5.6~~

:
*

*HO/H-81-10 197
EGC

BURN # 1 GE16 21:54 21-OCT81

IS
1347

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.3	10	753	705	3.32	7.1	8.3	6025	3.14	41
U	IS	TH	IS	CD	SB	BI	V	CA	P
.07	-.4	1.0	584	3.8	5.4	1.0	3.9	.09	.05
LA	IN	MG	BA	TI	B	AL	IS	IS	W
8.6	2.2	.06	.01	.00	13	.30	-5	1.7	1.3

:
*HO/198
EGC

BURN # 1 GE16 21:56 21-OCT81
1347

3.0	12	434	827	2.64	6.8	8.4	6196	3.21	27
1.5	-.3	1.1	536	4.2	5.2	1.6	4.9	.08	.04
8.3	3.1	.07	.01	.00	13	.27	-10	1.6	2.3

:
*0/199
EGC

BURN # 1 GE16 21:57 21-OCT81
1347

3.3	10	470	765	2.46	8.5	8.2	7145	4.11	49
-.4	-.3	1.2	489	3.9	7.0	1.8	2.4	.07	.03
12	2.4	.08	.01	.00	14	.26	-7	2.2	1.8

:
*0/200
EGC

BURN # 1 GE16 21:58 21-OCT81
1347

3.8	11	915	925	4.06	7.1	7.8	5618	3.49	26
-.1	.03	1.4	337	5.4	6.4	.57	4.5	.05	.01
12	3.2	.06	.01	.00	12	.25	-14	1.8	2.8

:
*0/201
EGC

BURN # 1 GE16 21:58 21-OCT81
1347

4.2	30	2924	6270	12.8	9.3	9.6	4950	4.90	57
.29	1.2	1.8	346	44	14	1.3	-.2	.04	.01
18	3.3	.07	.00	.00	16	.25	-363	2.5	~~30~~ /

:
*0/202
EGC

BURN # 1 GE16 21:59 21-OCT81
1347

4.0	35	2866	5723	13.3	10	9.1	5816	6.69	88
.73	1.8	1.6	484	38	~~20~~ 2	.33	-4.	.05	.02
18	2.5	.05	.00	.00	16	.25	-321	3.2	~~27~~ /

:
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*HO/H-81-1Ø 2Ø3
EGC

BURN # 1 GE16 22:ØØ 21-OCT81
IS
1347

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.Ø	2Ø	1Ø27	1367	5.9Ø	7.2	7.1	9276	6.85	16
U	IS	TH	IS	CD	SB	BI	V	CA	P
-2	.34	1.1	476	6.7	~~13~~ 2	-.1	2.9	.Ø5	.Ø1
LA	IN	MG	BA	TI	B	AL	IS	IS	W
21	2.Ø	.Ø7	.ØØ	.ØØ	16	.24	-29	3.6	~~4.5~~

:
*HO/2Ø4
EGC

BURN # 1 GE16 22:Ø1 21-OCT81
1347

4.Ø	66	4699	13323 *	24.6 *	8.7	8.Ø	7Ø41	6.75	64
-.2	1.2	1.6	42Ø	117	~~24~~ 5	1.9	-1	.Ø4	.Ø1
21	5.1	.Ø6	.ØØ	.ØØ	15	.22	-1432	3.5	~~115~~

:
*0/2Ø4 (1ØX DILUTED)
EGC

BURN # 1 GE16 22:Ø4 21-OCT81
1347

.28	7.4	537	1832	2.63	1.1	.95	88Ø	.693	7.1
-.6	.14	.1Ø	44	14	.96	-.3	.45	.Ø1	.ØØ
2.4	1.8	.Ø1	.ØØ	.ØØ	2.Ø	.Ø3	-73	.12	~~4.7~~

:
*0/2Ø5
EGC

BURN # 1 GE16 22:Ø5 21-OCT81
1347

5.6	15	35	1Ø7	.216	8.2	7.9	672Ø	4.76	28
1.4	.35	1.3	435	-.2	5.4	-.4	9.5	.Ø6	.Ø1
11	3.8	.Ø4	.Ø1	.ØØ	14	.34	7.3	2.3	.Ø1

:
*0/2Ø6
EGC

BURN # 1 GE16 22:Ø6 21-OCT81
1347

4.8	16	21	44	.178	9.2	9.2	5Ø64	3.83	76
2.7	.63	1.2	585	-.1	4.9	-.5	9.2	.Ø9	.Ø3
8.5	3.2	.Ø4	.Ø1	.ØØ	13	.37	17	1.8	.65

:
*0/2Ø7
EGC

BURN # 1 GE16 22:Ø7 21-OCT81
1347

5.4	14	12	6Ø	.42Ø	8.7	7.4	8151	5.86	2Ø
1.6	.25	.97	672	-.4	~~8.8~~ 2	-.2	4.4	.Ø9	.Ø3
12	2.Ø	.Ø4	.Ø1	.ØØ	14	.38	1Ø	2.9	.88

:
*

*HO/H-81-10 208
EGC

BURN # 1 GE16 22:08 21-OCT81

IS
1347

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
6.8	16	85	112	.887	7.5	7.7	6540	5.28	40
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.9	.70	1.1	607	.11	6.4	-.7	1.9	.08	.02
LA	IN	MG	BA	TI	B	AL	IS	IS	W
12	2.6	.04	.01	.00	15	.35	6.5	2.5	.85

:
*HO/209
EGC

BURN # 1 GE16 22:09 21-OCT81

1348

3.7	24	4520	6721	20.8	7.4	7.3	7346	7.77	268
-.6	1.7	.33	490	47	~~20~~ 4	-.5	-7	.04	.01
18	2.4	.04	.01	.00	17	.25	-372	3.6	~~34~~ /

:
*0/210
EGC

BURN # 1 GE16 22:10 21-OCT81

1348

3.6	17	1575	2351	7.40	9.1	7.7	5511	4.81	111
-.2	1.0	.70	462	16	9.6	.16	-3	.06	.02
17	1.7	.03	.00	.00	14	.28	-80	2.4	~~8.1~~ /

:
*0/211
EGC

BURN # 1 GE16 22:11 21-OCT81

1348

4.3	17	225	440	2.95	9.9	8.6	4578	3.46	56
2.6	.65	1.2	654	2.2	6.7	.65	2.8	.10	.03
14	3.4	.05	.01	.00	12	.42	-.9	1.8	1.6

HO/213 EGC H-81-10

BURN # 1 GE16 22:17 21-OCT81
1348

2.6	6.6	11	74	-.Ø5	.61	2.1	73Ø	1.59	5.4
6.1	1.2	2.5	2ØØ7	.45	-2	.54	9.6	.62	.Ø8
21	2.1	.37	.Ø6	.1Ø	5.7	.64	5.9	2.6	-.4

:
*HO/214
EGC

BURN # 1 GE16 22:18 21-OCT81
IS
1348

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
1.8	12	136	842	.273	4.8	12	2Ø92	1.73	45
U	IS	TH	IS	CD	SB	BI	V	CA	P
3.4	.7Ø	2.Ø	166Ø	3.1	4.3	.36	1Ø	.41	.Ø9
LA	IN	MG	BA	TI	B	AL	IS	IS	W
17	3.1	.38	.Ø4	.11	7.3	.68	5.2	2.3	2.Ø

:
*HO/215
EGC

BURN # 1 GE16 22:2Ø 21-OCT81
1348

3.Ø	6.4	27	286	.Ø14	1.9	4.1	648	1.43	62
2.1	.97	2.6	957	1.8	2.1	.48	8.Ø	.18	.Ø9
18	3.1	.41	.Ø5	.13	6.5	.79	5.3	1.8	.61

:
*0/216
EGC

BURN # 1 GE16 22:2Ø 21-OCT81
1348

1.4	7.8	38	277	.142	1.5	3.6	2Ø16	2.44	1Ø
.99	1.2	4.7	945	.68	.18	.28	8.9	.18	.1Ø
3Ø	3.8	.29	.Ø4	.Ø7	8.5	.67	3.8	3.Ø	-.1

:
*0/217
EGC

BURN # 1 GE16 22:21 21-OCT81
1348

8.2	32	1272	7229	7.22	7.Ø	7.5	1881	2.35	77
.Ø8	.82	.41	.361	.57	.11	1.3	.76	.Ø5	.Ø1
7.Ø	3.8	.Ø3	.Ø1	.ØØ	9.5	.24	-467	1.Ø	~~.35~~ /

:
*0/218 H-81-10
EGC

BURN # 1 GE16 22:22 21-OCT81
1348

3.2	17	2726	2919	12.6	7.5	6.6	2246	3.11	53Ø
2.6	1.4	.66	554	17	15	.83	2.4	.Ø8	.Ø4
6.8	3.1	.Ø4	.Ø1	.ØØ	13	.29	-85	1.4	~~-1Ø~~ /

:
*

+HO/RE H-81-10 198
EGC

BURN # 1 GE16 22:23 21-OCT81
IS
1348

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.8	12	425	802	2.49	6.2	8.2	6068	3.11	26
U	IS	TH	IS	CD	SB	BI	V	CA	P
-1.0	-.4	1.0	514	4.2	4.5	1.1	4.6	.08	.04
LA	IN	MG	BA	TI	B	AL	IS	IS	W
8.0	2.3	.06	.01	.00	12	.27	-11	1.5	2.5

:
*HO/STD M-2
EGC

BURN # 1 GE16 22:24 21-OCT81
1348

1.4	30	37	188	.285	35	16	840	2.47	12
2.3	2.0	2.3	1610	1.4	-.1	1.1	55	.40	.11
13	2.6	.63	.02	.10	12	1.7	59	3.0	1.3

:
*

ACME ANALYTICAL LABORATORIES LTD.

852 E HASTINGS ST. VANCOUVER, B.C. V6A 9R6
(604) 253-3158 TELEX 04-53124

ICP GEOCHEMICAL ANALYSES

A .500 GRAM OF SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 NITRIC ACID
TO HYDROCHLORIC ACID TO WATER AT 90 DEG. C FOR 1 HOUR.
THE SAMPLE IS DILUTED WITH WATER TO 10.0 MLS.
THE RESULTS ARE REPORTED IN PPM EXCEPT FOR : FE, CA, P, MG, BA, AND
AL WHICH IS IN PERCENT.
THIS LEACH IS PARTIAL FOR: CA, P, MG, AL, TI, LA, AND W.
VERY LITTLE BA IS DISSOLVED.
IS = INTERNAL STANDARD.
*

*HO/H-81-10 219 MATTAGAMI FILE# 81-1581 PAGE: 4
EGC

* Assay required

BURN # 1 GE16 8:18 22-OCT81
IS
1353

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
4.8	21	2483	5610	13.6	8.8	8.7	2513	2.59	120
U	IS	TH	IS	CD	SB	BI	V	CA	P
1.3	.88	.80	846	36	7.5	.79	1.5	.14	.07
LA	IN	MG	BA	TI	B	AL	IS	IS	W
5.2	5.2	.04	.01	.00	11	.36	-75	.45	~~20~~ 1

:
*HO/H-81-10 220
EGC

BURN # 1 GE16 8:20 22-OCT81
1353

2.7	25	2586	4167	11.4	9.6	8.5	4094	3.06	62
1.6	.42	1.1	793	28	8.2	.49	1.9	.12	.06
6.7	3.4	.07	.00	.00	10	.35	-23	.84	~~28~~ 1

:
*0/H-81-10 221
EGC

BURN # 1 GE16 8:21 22-OCT81
1353

2.9	29	891	6643	4.41	8.6	8.5	3246	3.72	119
.29	1.3	2.1	843	48	5.5	.72	3.2	.12	.06
10	4.3	.14	.00	.00	9.8	.35	-115	1.4	~~28~~ 1

:
*0/H-81-10 222
EGC

BURN # 1 GE16 8:22 22-OCT81
*
1353

2.9	81	1343	23365	9.58	9.9	15	3729	4.53	63
.78	1.6	2.1	1003	268	30	4.4	6.7	.15	.08
11	29	.22	.00	.00	11	.36	-3546	1.8	~~[illegible]~~ 1

:
*

HO/H-81-10 223
EGC

BURN # 1 GE16 8:23 22-OCT81
IS
1354

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
4.0	24	470	4584	3.26	9.2	8.4	3551	4.19	79
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.0	1.4	2.2	966	31	7.4	.16	5.2	.15	.07
LA	IN	MG	BA	TI	B	AL	IS	IS	W
10	4.4	.18	.01	.00	11	.35	-23	1.6	~~15~~ /

:
*HO/H-81-10 224
EGC

BURN # 1 GE16 8:25 22-OCT81
1353

3.3	23	954	2184	5.50	8.0	8.5	2837	2.82	51
1.8	.87	1.9	864	13	6.4	-.1	5.1	.14	.06
9.5	2.8	.14	.01	.00	10	.36	12	.99	~~5.3~~ /

:
*O/H-81-10 225
EGC

BURN # 1 GE16 8:26 22-OCT81
1353

7.7	78	1720	* 20841	12.0	11	17	2090	3.64	138
2.0	1.7	1.8	822	241	38	4.0	2.5	.12	.06
8.7	38	.08	.01	.00	10	.36	-2819	1.1	~~299~~ /

:
*O/H-81-10 226
EGC

BURN # 1 GE16 8:28 22-OCT81
1353

3.2	22	1290	1879	5.98	9.2	8.6	2437	2.44	60
2.0	.82	2.0	1264	11	6.7	.42	4.1	.24	.07
8.3	2.9	.13	.01	.00	9.3	.35	16	.85	~~4.0~~ /

:
*O/H-81-10 227
EGC

BURN # 1 GE16 8:29 22-OCT81
1353

2.5	17	128	285	.965	9.0	8.4	2064	1.61	48
.57	.48	1.9	2259	1.7	4.1	.20	3.0	.77	.07
6.2	2.7	.26	.01	.00	8.7	.36	9.8	1.0	.30

:
*O/H-81-10 228
EGC

BURN # 1 GE16 8:30 22-OCT81
1353

2.2	18	295	357	2.38	8.6	8.3	2207	1.66	56
1.3	.58	1.8	2305	2.4	5.0	.83	3.2	.82	.07
6.2	2.5	.27	.01	.00	8.3	.36	14	1.1	.27

:
*

HO/H-81-10 229
EGC

BURN # 1 GE16 8:39 22-OCT81
IS
1353

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.1	19	198	314	2.63	8.8	8.Ø	234Ø	1.68	62
U	IS	TH	IS	CD	SB	BI	V	CA	P
1.7	.62	1.8	2342	1.9	4.3	.44	2.8	.83	.Ø6
LA	IN	MG	BA	TI	B	AL	IS	IS	W
6.4	2.3	.29	.Ø1	.ØØ	9.7	.34	14	1.1	.68

:
*HO/H-81-10 23Ø
EGC

BURN # 1 GE16 8:4Ø 22-OCT81
1353

2.6	17	24Ø	453	2.93	1Ø	8.7	21Ø6	1.91	8Ø
1.1	.7Ø	2.Ø	1919	2.6	4.4	.11	2.9	.5Ø	.Ø7
7.5	2.2	.17	.Ø1	.ØØ	17	.35	16	.79	.98

:
*O/H-81-10 231
EGC

BURN # 1 GE16 8:41 22-OCT81
1353

4.7	14	351	4Ø7	2.58	11	9.7	2594	2.43	64
1.4	.82	2.Ø	9Ø2	2.4	5.1	.Ø7	2.4	.15	.Ø6
8.8	1.5	.Ø7	.Ø1	.ØØ	9.2	.33	2Ø	.66	.92

:
*O/H-81-1Ø 232
EGC

BURN # 1 GE16 8:42 22-OCT81
1353

3.1	18	893	2205	5.89	9.Ø	8.5	2712	2.77	75
.43	.93	2.Ø	1Ø14	14	1Ø	.25	3.Ø	.17	.Ø6
8.5	4.Ø	.12	.Ø1	.ØØ	9.6	.34	11	.81	~~5.6~~ /

:
*O/H-81-1Ø 238
EGC

BURN # 1 GE16 8:43 22-OCT81
1353

2.5	22	17Ø9	485Ø	8.91	7.4	7.4	4784	4.82	54
1.6	1.4	1.8	11ØØ	33	13	.34	1.3	.17	.Ø6
1Ø	3.1	.21	.Ø1	.ØØ	14	.35	-56	1.9	~~18~~ /

:
*O/H-81-1Ø 239
EGC

BURN # 1 GE16 8:44 22-OCT81
1353

4.3	22	1784	3716	9.63	1Ø	8.1	29Ø3	3.21	39
.92	1.1	1.6	949	24	11	.53	2.6	.15	.Ø6
8.6	2.5	.14	.Ø1	.ØØ	11	.35	-29	.97	~~14~~ /

:
*

HO/H-81-10 240
EGC

BURN # 1 GE16 8:45 22-OCT81
IS
1353

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.4	14	309	401	2.26	8.0	8.7	2712	2.38	23
U	IS	TH	IS	CD	SB	BI	V	CA	P
1.1	.84	1.8	948	2.1	4.1	-.2	3.1	.16	.07
LA	IN	MG	BA	TI	B	AL	IS	IS	W
7.8	2.4	.08	.01	.00	9.8	.35	15	.62	.70

:
*HO/H-81-10 241
EGC

BURN # 1 GE16 8:46 22-OCT81
1353

2.6	16	856	1833	5.00	9.3	8.9	2520	2.51	35
1.2	.91	1.8	945	.11	4.0	-.1	3.3	.15	.07
7.8	2.6	.11	.02	.00	10	.34	7.9	.71	~~4.1~~ /

:
*0/H-81-10 242
EGC

BURN # 1 GE16 8:47 22-OCT81
1353

3.0	37	998	4460	7.35	11	10	2415	4.20	88
1.7	2.0	1.9	959	.30	26	.91	1.6	.14	.06
9.0	3.5	.16	.01	.00	11	.32	-51	1.4	~~16~~ /

:
*0/H-81-10 243
EGC

BURN # 1 GE16 8:48 22-OCT81
1353

6.8	18	2715	3234	12.2	9.5	8.5	1095	2.26	95
2.7	1.3	1.7	1037	.20	9.1	-.4	2.0	.18	.06
7.3	2.8	.08	.01	.00	8.6	.34	-30	.48	~~3.1~~ /

:
*0/H-81-10 244
EGC

BURN # 1 GE16 8:48 22-OCT81
1353

2.8	24	1833	2140	9.83	11	8.7	2498	2.37	57
1.6	1.0	1.7	2673	.13	8.8	.89	4.2	1.2	.06
7.9	2.5	.47	.01	.00	8.6	.32	30	1.9	~~4.8~~ /

:
*0/H-81-10 245
EGC

BURN # 1 GE16 8:49 22-OCT81
1353

2.5	20	1084	1261	5.74	8.9	7.7	2518	2.00	38
1.7	.76	1.8	2749	7.8	7.1	.63	4.2	1.3	.06
7.9	2.0	.47	.01	.00	10	.33	25	1.7	~~3.0~~ /

:
*

HO/H-81-10 246
EGC

BURN # 1 GE16 8:50 22-OCT81
IS
1353

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
4.2	14	1296	3420	7.96	10	9.3	2370	3.06	112
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.5	1.5	2.0	2138	22	9.6	.30	2.6	.61	.07
LA	IN	MG	BA	TI	B	AL	IS	IS	W
6.8	3.0	.30	.01	.00	9.4	.32	-3	1.6	~~9.5~~ /

:
*HO/H-81-10 247
EGC

BURN # 1 GE16 8:51 22-OCT81
1353

5.6	29	493	15227	4.35	13	13	2714	4.39	126
2.1	2.3	1.9	1996	130	8.7	2.2	4.2	.49	.08
12	20	.32	.01	.00	13	.37	-1282	2.1	~~152~~ /

:
*0/H-81-10 248
EGC

BURN # 1 GE16 8:52 22-OCT81
1353

4.6	17	360	3603	2.21	10	7.5	2364	3.05	51
2.5	1.5	2.3	2069	22	3.9	1.2	2.3	.57	.06
10.0	4.0	.34	.01	.00	11	.32	-22	1.7	~~11~~ /

:
*0/H-81-10 249
EGC

BURN # 1 GE16 8:53 22-OCT81
1353

4.6	22	257	4903	2.23	8.3	9.1	2698	4.01	93
.98	2.0	2.4	2235	32	15	.63	2.0	.63	.06
11	5.0	.38	.01	.00	10	.30	-55	2.0	~~17~~ /

:
*0/H-81-10 250
EGC

BURN # 1 GE16 8:54 22-OCT81
1353

4.8	17	221	3914	1.71	8.1	7.4	2553	3.44	69
1.1	1.7	2.5	2085	25	10	1.3	1.3	.55	.07
11	4.1	.34	.01	.00	9.8	.30	-24	1.9	~~12~~ /

:
*0/H-81-10 251
EGC

BURN # 1 GE16 8:55 22-OCT81
1353

5.5	20	235	3889	1.92	8.3	6.8	2158	3.15	62
1.6	1.4	2.3	1848	25	8.0	1.5	1.1	.43	.07
11	4.7	.28	.01	.00	11	.30	-40	1.5	~~11~~ /

:
*

HO/H-81-1Ø 252
EGC

BURN # 1 GE16 8:55 22-OCT81
IS
1353

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
5.1	53	1173	16452	8.64	8.5	18	1795	5.32	139
U	IS	TH	IS	CD	SB	BI	V	CA	P
3.2	2.9	2.Ø	1797	155	26	1.4	-2	.37	.Ø6
LA	IN	MG	BA	TI	B	AL	IS	IS	W
11	2Ø	.21	.ØØ	.ØØ	12	.28	-1747	2.2	~~1ØØ~~ |

:
*HO/H-81-1Ø 253
EGC

BURN # 1 GE16 8:57 22-OCT81
1353

4.5	19	8Ø8	4561	6.25	11	13	2463	3.86	1Ø2
2.1	1.9	2.2	2359	29	19	.36	1.7	.72	.Ø6
1Ø	5.1	.38	.Ø1	.ØØ	12	.28	-49	2.2	~~15~~ |

:
*O/H-81-1Ø 254
EGC

BURN # 1 GE16 8:57 22-OCT81
1353

4.2	12	665	3439	3.21	8.1	7.7	2347	2.98	7Ø
.96	1.4	2.Ø	2317	21	6.6	.76	3.4	.71	.Ø6
9.6	4.6	.37	.Ø1	.ØØ	1Ø	.31	-27	1.8	~~[illegible]~~ |

:
*O/H-81-1Ø 255
EGC

BURN # 1 GE16 8:58 22-OCT81
1353

4.1	9.5	192	3245	1.Ø8	7.8	7.Ø	2348	2.62	41
.94	1.2	2.Ø	2275	2Ø	1.4	1.2	3.8	.69	.Ø6
9.6	4.2	.39	.Ø1	.ØØ	1Ø	.29	-18	1.7	~~8.6~~ |

:
*O/H-81-1Ø 256
EGC

BURN # 1 GE16 8:59 22-OCT81
1353

4.7	14	17Ø	3654	1.21	9.1	8.2	2483	2.93	58
2.2	1.4	2.2	2263	23	1.8	1.3	3.5	.67	.Ø6
1Ø	3.6	.41	.Ø1	.ØØ	11	.3Ø	-3Ø	1.8	~~11~~ |

:
*O/H-81-1Ø 257
EGC

BURN # 1 GE16 9:ØØ 22-OCT81
1353

5.1	15	215	3629	2.13	7.8	7.9	2357	3.33	72
1.Ø	1.4	2.2	2Ø73	23	9.3	1.9	1.9	.54	.Ø6
11	3.7	.36	.Ø1	.ØØ	1Ø	.31	-32	1.8	~~11~~ |

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HO/H-81-10  258
EGC

BURN # 1  GE16        9:01    22-OCT81
  IS
 1353
  MO      CU      PB      ZN      AG      NI      CO      MN      FE      AS
  4.5     22      216     3745    2.14    7.7     8.6     2207    3.73    99
  U       IS      TH      IS      CD      SB      BI      V       CA      P
  1.9     1.8     2.1     1933    24      15      1.4     .44     .44     .06
  LA      IN      MG      BA      TI      B       AL      IS.     IS      W.
  11      4.2     .33     .01     .00     11      .31     -51     1.9     12
:
*HO/H-81-10  259
EGC

BURN # 1  GE16        9:02    22-OCT81
 1353
  4.9     20      143     3870    1.75    9.3     7.2     2265    3.31    84
  .82     1.6     2.2     2050    26      9.1     2.0     1.1     .51     .06
  11      4.8     .34     .01     .00     11      .32     -58     1.8     11
:
*0/RE: H-81-10  238
EGC

BURN # 1  GE16        9:03    22-OCT81
 1353
  2.9     22      1753    4961    9.06    7.9     7.6     4956    4.96    55
  .74     1.6     1.9     1158    34      15      .85     .57     .17     .06
  12      3.2     .22     .01     .00     16      .35     -133    2.0     17
:
*0/STD M-2
EGC

BURN # 1  GE16        9:05    22-OCT81
 1353
  1.3     30      38      187     .300    37      16      839     2.50    9.8
  1.4     2.0     2.5     1804    1.3     .47     .21     .58     .39     .10
  13      1.2     .64     .02     .10     11      1.7     59      2.2     1.6
:
*
```

ACME ANALYTICAL LABORATORIES LTD.

852 E HASTINGS ST. VANCOUVER, B.C. V6A 9R6
(604) 253-3158 TELEX 04-53124

ICP GEOCHEMICAL ANALYSES

A .500 GRAM OF SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 NITRIC ACID TO HYDROCHLORIC ACID TO WATER AT 90 DEG. C FOR 1 HOUR.
THE SAMPLE IS DILUTED WITH WATER TO 10.0 MLS.
THE RESULTS ARE REPORTED IN PPM EXCEPT FOR : FE, CA, P, MG, BA, AND AL WHICH IS IN PERCENT.
THIS LEACH IS PARTIAL FOR: CA, P, MG, AL, TI, LA, AND W.
VERY LITTLE BA IS DISSOLVED.
IS = INTERNAL STANDARD.
*

*HO/H-81-10 260 MATTAGAMI FILE# 81-1581 PAGE: 5 END
EGC

* Assay required

BURN # 1 GE16 9:07 21-OCT81
IS
1349

MO	CU	PB	ZN *	AG	NI	CO	MN	FE	AS
3.6	19	242	9238	3.97	6.4	7.7	2234	2.99	67
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.0	1.0	1.5	1491	67	17	4.5	1.3	.41	.06
LA	IN	MG	BA	TI	B	AL	IS	IS	W
6.7	9.0	.28	.01	.00	9.5	.24	-267	2.5	~~54~~ 1

:
*HO/H-81-10 261
EGC

BURN # 1 GE16 9:09 21-OCT81
1349

3.5	15	780	5148	5.58	7.7	7.2	3592	3.47	125
2.0	.72	1.5	1479	32	16	3.2	.83	.39	.06
7.7	4.7	.31	.01	.00	11	.26	-36	2.8	~~18~~ 1

:
*HO/H-81-10 262
EGC

BURN # 1 GE16 9:10 21-OCT81
IS
1349

MO	CU	PB	ZN *	AG	NI	CO	MN	FE	AS
2.7	26	1433	15590	9.99	7.0	12	5624	4.48	148
U	IS	TH	IS	CD	SB	BI	V	CA	P
2.4	.39	.99	2062	122	39	5.4	.21	.76	.05
LA	IN	MG	BA	TI	B	AL	IS	IS	W
7.5	17	.44	.01	.00	12	.21	-1117	3.6	~~149~~ 1

:
*HO/H-81-10 262 (10X DILUTED)
EGC

BURN # 1 GE16 9:13 21-OCT81
1349

.19	2.3	161	2318	1.01	.88	1.3	718	.492	17
-.3	-.1	.03	471	15	4.3	.59	.12	.09	.01
.83	3.0	.05	.00	.00	1.2	.03	-23	.66	~~5.4~~ 1

:
*

HO/H-81-10 263
EGC

BURN # 1 GE16 9:14 21-OCT81

IS
1349

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
4.0	16	248	5407	3.59	10.0	8.4	2389	2.85	73
U	IS	TH	IS	CD	SB	BI	V	CA	P
3.1	1.00	1.7	1572	35	13	2.7	1.6	.44	.06
LA	IN	MG	BA	TI	B	AL	IS	IS	W
8.0	5.3	.26	.01	.00	11	.26	-85	2.6	~~20~~ /

:
*HO/H-81-10 264
EGC

BURN # 1 GE16 9:15 21-OCT81

1349

3.5	9.4	445	4249	2.20	7.2	7.2	2772	2.69	64
2.2	.61	1.4	1956	27	6.5	2.0	3.7	.68	.06
7.0	4.3	.39	.01	.00	9.1	.24	-30	2.8	~~13~~ /

:
*O/H-81-10 265
EGC

BURN # 1 GE16 9:16 21-OCT81

1349

3.3	12	158	4160	1.96	8.8	7.0	2098	2.31	53
3.5	.73	1.6	1784	26	11	1.7	3.4	.57	.06
6.8	4.1	.31	.01	.00	9.9	.26	-47	2.5	~~13~~ /

:
*O/H-81-10 266
EGC

BURN # 1 GE16 9:17 21-OCT81

1349

3.8	17	214	5215	2.31	8.0	7.3	2492	2.75	46
2.3	.74	1.5	1596	35	12	2.5	4.3	.45	.06
6.9	8.9	.32	.01	.00	9.9	.26	-83	2.6	~~10~~ /

:
*O/H-81-10 267
EGC

BURN # 1 GE16 9:18 21-OCT81

1349

3.8	15	225	3767	2.32	7.7	6.2	2428	2.76	32
2.9	.90	1.6	1647	24	9.2	3.7	4.1	.46	.06
7.2	5.2	.34	.01	.00	10	.25	-35	2.7	~~12~~ /

:
*O/H-81-10 268
EGC

BURN # 1 GE16 9:19 21-OCT81

1349

3.1	13	184	3080	2.24	7.4	6.0	2515	3.00	36
1.6	.68	1.9	1574	20	7.6	3.0	3.9	.43	.06
7.6	4.5	.34	.01	.00	11	.26	-8	2.7	~~9.2~~ /

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*

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HO/H-81-10   269
EGC

BURN # 1   GE16        9:20    21-OCT81
   IS
  1349
   MO       CU       PB       ZN       AG       NI       CO       MN       FE       AS
   1.0      77       140      10597    1.55     8.1      31       1690     4.56     34
   U        IS       TH       IS       CD       SB       BI       V        CA       P
   1.7      2.3      2.6      2537     43       13       3.2      24       1.2      .06
   LA       IN       MG       BA       TI       B        AL       IS       IS       W
   8.2      12       .58      .00      .02      14       .61      -441     4.1      .65 /
:
*HO/H-81-10   269   (10X DILUTED)
EGC

BURN # 1   GE16        9:23    21-OCT81
  1349
   -.0      7.8      17       1443     .080     .98      3.6      209      .509     3.7
   .03      .19      .22      682      5.4      .68      .82      2.8      .14      .01
   .88      2.7      .07      .00      .00      1.4      .07      -11      .85      2.9
:
*0/H-81-10   270
EGC

BURN # 1   GE16        9:24    21-OCT81
  1349
   1.9      11       12       104      .203     6.7      5.7      1225     3.28     8.3
   1.1      1.3      3.6      623      -.0      2.9      .61      19       .11      .07
   7.5      1.4      .09      .01      .00      11       .37      13       2.3      .80
:
*0/RE: H-81-10   264
EGC

BURN # 1   GE16        9:25    21-OCT81
  1349
   3.5      9.4      446      4250     2.21     7.0      7.1      2799     2.71     60
   2.5      .65      1.5      1966     26       5.2      1.9      3.6      .68      .06
   7.2      4.3      .39      .01      .00      9.7      .24      -51      2.8      14 /
:
*0/STD M-2
EGC

BURN # 1   GE16        9:27    21-OCT81
  1349
   .85      30       36       189      .167     36       16       856      2.50     11
   .44      1.4      2.3      1537     1.3      1.9      1.2      56       .41      .10
   11       2.0      .62      .02      .10      12       1.7      63       3.5      .23
:
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*HO/ H-81-Ø9 6
EGC

BURN # 1 3ØGE 21:32 13JAN82
IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.95	19.6	19.3	59.5	.Ø8Ø	4.21	4.Ø7	4Ø4	1.57	35.Ø
U	IS	TH	SR	CD	SB	BI	V	CA	P
1.3Ø	-1.6	1.86	59.1	.4Ø3	-2.Ø	-.51	6.74	.353	.Ø58
LA	CR	MG	BA	TI	B	AL	NA	K	W
8.51	23.5	.Ø97	.ØØ8	.ØØØ	5.99	.242	.Ø31	.154	-.44

:
*HO/ H-81-Ø9 7
EGC

BURN # 1 3ØGE 21:34 13JAN82
1366

5.77	28Ø	1Ø.4	42.3	.Ø33	6.Ø6	5.54	17Ø	1.8Ø	3Ø.1
1.9Ø	-.89	2.24	75.9	.279	-2.4	-.92	9.2Ø	.345	.Ø63
1Ø.7	17.8	.123	.ØØ9	.ØØØ	6.67	.264	.Ø62	.155	-.Ø3

:
*O/ H-81-Ø9 9
EGC

BURN # 1 3ØGE 21:34 13JAN82
1366

5.66	317	11.9	35.5	.Ø89	5.73	5.2Ø	87.5	1.78	35.9
2.8Ø	-.72	2.ØØ	57.8	.358	-1.6	-.66	8.58	.241	.Ø59
8.49	15.9	.Ø88	.ØØ9	.ØØØ	6.4Ø	.283	.Ø21	.164	-.44

:
*O/ H-81-Ø9 1Ø
EGC

BURN # 1 3ØGE 21:35 13JAN82
1366

3.83	223	11.5	42.6	.Ø29	5.81	5.21	174	1.88	58.1
3.52	-.92	1.96	44.9	.3Ø5	-2.7	.249	11.5	.21Ø	.Ø65
7.49	16.8	.Ø87	.ØØ8	.ØØØ	6.72	.27Ø	.Ø22	.135	-.47

:
*O/ H-81-Ø9 11
EGC

BURN # 1 3ØGE 21:36 13JAN82
1366

5.5Ø	25.3	15.7	32.7	.ØØ4	2.91	3.91	71.3	1.52	28.6
1.98	-.56	2.46	84.8	.138	-.86	-.41	5.16	.211	.Ø48
4.15	9.18	.Ø59	.ØØ7	.ØØØ	8.41	.337	.Ø24	.215	.112

:
*

*HO/ H-81-Ø9 12
EGC

BURN # 1 3ØGE 21:37 13JAN82

IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
9.43	351	13.5	45.1	.Ø83	7.16	5.4Ø	9Ø.7	1.9Ø	29.7
U	IS	TH	SR	CD	SB	BI	V	CA	P
1.41	-1.Ø	1.52	54.4	.392	[redacted] 2	-.46	8.93	.239	.Ø54
LA	CR	MG	BA	TI	B	AL	NA	K	W
5.58	43.2	.Ø98	.Ø1Ø	.ØØ1	6.27	.285	.Ø22	.165	.899

:
*HO/ H-81-Ø9 16
EGC

BURN # 1 3ØGE 21:39 13JAN82

1366

1.94	25.6	22.7	76.7	.261	3.Ø3	3.29	592	1.61	58.6
1.81	-2.Ø	1.78	84.5	.545	-.17	-.45	6.91	.427	.Ø48
6.22	15.2	.Ø66	.Ø1Ø	.ØØ1	9.59	.571	.Ø3Ø	.32Ø	-.47

:
*0/ H-81-Ø9 17
EGC

BURN # 1 3ØGE 21:4Ø 13JAN82

1366

2.51	173	26.3	94.2	.288	5.22	5.Ø3	413	1.76	7Ø.7
2.5Ø	-1.5	1.94	85.2	.496	.964	-.94	8.82	.432	.Ø63
8.82	12.4	.127	.Ø11	.ØØØ	8.52	.561	.Ø48	.3ØØ	.112

:
*0/ H-81-11 3Ø
EGC

BURN # 1 3ØGE 21:4Ø 13JAN82

1366

2.Ø4	88.5	25.Ø	1Ø9	.336	15.5	18.3	1Ø21	3.16	3Ø.8
2.82	-3.8	2.45	17Ø	1.Ø1	[redacted] 2	-1.3	36.Ø	1.43	.152
9.97	43.2	.487	.ØØ6	.ØØ1	8.ØØ	.439	.17Ø	.Ø93	-.62

:
*0/ H-81-11 31
EGC

BURN # 1 3ØGE 21:41 13JAN82

1366

.773	55.6	13.2	97.9	.151	12.Ø	17.Ø	12Ø6	3.57	17.7
4.13	-4.2	2.21	175	.794	[redacted] 2	-.13	43.5	1.33	.154
8.96	28.2	.686	.ØØ8	.ØØØ	11.5	.5Ø1	.199	.15Ø	-.82

:
*0/ H-81 11 33
EGC

BURN # 1 30GE 21:42 13JAN82

1366

.840	39.5	11.9	62.0	.095	12.5	15.8	717	4.02	15.0
4.96	-3.0	2.41	126	.749	[redacted] 2	.324	47.7	.734	.158
9.61	42.5	.603	.006	.001	10.2	.436	.147	.119	-.98

:HO/ H-81-11 34
EGC

BURN # 1 30GE 21:43 13JAN82

IS

1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
.525	45.0	7.43	54.3	.121	12.0	17.2	546	3.29	12.7
U	IS	TH	SR	CD	SB	BI	V	CA	P
6.36	-2.2	2.29	151	.627	[redacted] 2	.042	51.1	.929	.170
LA	CR	MG	BA	TI	B	AL	NA	K	W
9.68	22.8	.622	.007	.001	10.6	.494	.151	.119	-.68

:
*HO/ H-81-11 35
EGC

BURN # 1 30GE 21:44 13JAN82

1366

.133	43.6	7.47	36.1	.085	9.77	13.3	437	2.49	3.06
4.12	-1.7	1.82	245	.620	[redacted] 2	-2.7	53.1	2.07	.157
9.85	25.1	.695	.009	.006	7.58	.541	.242	.104	.080

:
*0/ H-81-11 36
EGC

BURN # 1 30GE 21:45 13JAN82

1366

1.27	35.6	8.23	62.7	.107	18.7	20.5	439	3.53	10.0
4.50	-2.4	2.68	157	.809	[redacted] 2	-.23	82.5	1.10	.154
11.9	69.5	.876	.010	.007	8.69	.417	.171	.043	-.63

:
*0/ H-81-11 38
EGC

BURN # 1 30GE 21:46 13JAN82

1366

.994	61.7	6.46	42.8	.094	15.8	17.5	483	2.88	7.60
3.13	-2.4	2.04	186	.726	[redacted] 2	-2.0	67.1	1.79	.158
11.8	64.8	.681	.009	.005	7.35	.489	.183	.064	-.83

:
*

*HO/ H-81-11 39
EGC

BURN # 1 3ØGE 21:47 13JAN82

IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
1.Ø5	27.7	8.27	82.2	.Ø67	18.7	23.Ø	341	3.89	6.81
U	IS	TH	SR	CD	SB	BI	V	CA	P
3.33	-2.2	2.49	156	.958	[redacted] 2	.321	82.2	1.11	.149
LA	CR	MG	BA	TI	B	AL	NA	K	W
1Ø.9	64.4	.828	.ØØ6	.ØØ5	1Ø.4	.44Ø	.132	.Ø3Ø	-.51

:
*
*HO/ H-81-11 4Ø
EGC

BURN # 1 3ØGE 21:48 13JAN82
1366

4.41	45.3	12.1	59.3	.Ø73	17.7	19.6	44Ø	3.45	11.Ø
5.55	-2.4	2.44	165	.819	[redacted] 2	-.8Ø	76.1	1.31	.151
12.Ø	82.1	.723	.ØØ8	.ØØ5	8.83	.49Ø	.161	.Ø63	-.88

:

*O/ H-81-12 41
EGC

BURN # 1 3ØGE 21:49 13JAN82
1366

3.1Ø	65.7	6.4Ø	46.8	.Ø93	8.72	17.7	4Ø6	1.98	13.5
5.27	-1.7	4.44	85.4	.577	[redacted] 2	-1.1	36.Ø	.846	.135
11.Ø	29.5	.462	.ØØ3	.ØØ2	6.96	.258	.212	.Ø79	-.44

:
*O/ H-81-12 42
EGC

BURN # 1 3ØGE 21:5Ø 13JAN82
1366

2.52	172	13.5	5Ø.1	.Ø72	8.8Ø	12.1	44Ø	2.24	5.13
4.67	-1.8	4.87	113	.648	[redacted] 2	-.86	34.7	.928	.134
12.2	29.9	.481	.Ø11	.ØØ2	9.3Ø	.292	.276	.Ø84	-.66

:
*O/ H-81-12 43
EGC

BURN # 1 3ØGE 21:51 13JAN82
1366

1.91	32Ø	5.Ø1	35.4	.Ø64	5.68	6.56	3Ø6	2.Ø8	3.44
4.88	-1.3	5.87	169	.595	[redacted] 2	-1.5	36.6	.91Ø	.146
15.8	17.6	.4Ø7	.ØØ6	.ØØ4	9.Ø5	.45Ø	.4Ø1	.Ø9Ø	-.18

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*HO/ H-81-12 44
EGC

BURN # 1   30GE      21:52    13JAN82
  IS
 1366
  MO       CU      PB      ZN      AG      NI      CO      MN      FE      AS
 2.66     251     12.5    54.0    .062    8.46    10.2    527     2.55    6.40
  U        IS      TH      SR      CD      SB      BI      V       CA      P
 3.71     -2.2    4.74    132     .591    [redacted] 2  -1.1    39.5    .986    .129
  LA       CR      MG      BA      TI      B       AL      NA      K       W
 12.0     27.1    .473    .019    .002    8.87    .322    .293    .082    -.15

:
*0/ HO/
*HO/ H-81-12 45
EGC

BURN # 1   30GE      21:53    13JAN82
 1366
 2.32     40.6    6.41    46.0    .016    8.76    12.5    417     2.40    10.7
 2.55     -1.9    3.26    102     .447    [redacted] 2  -.70    36.6    .790    .123
 8.54     44.2    .393    .004    .001    7.10    .350    .239    .066    -.39

:
*0/ H-81-12 46
EGC

BURN # 1   30GE      21:54    13JAN82
 1366
 1.63     40.6    10.2    76.3    .025    7.12    12.4    408     2.04    10.6
 2.20     -1.6    3.82    124     .565    [redacted] 2  -2.0    30.3    1.17    .137
 8.94     27.7    .290    .008    .000    5.85    .387    .280    .090    .115

:
*0/ H-81-12 47
EGC

BURN # 1   30GE      21:55    13JAN82
 1366
 2.35     171     12.3    114     .129    7.20    11.8    518     1.75    9.65
 4.70     -1.9    2.86    174     .759    [redacted] 2  -6.0    31.0    3.37    .114
 8.48     25.4    .344    .053    .001    6.26    .369    .284    .113    .510

:
*0/ H-81-12 48
EGC

BURN # 1   30GE      21:56    13JAN82
 1366
 .406     68.0    15.2    109     .036    5.85    9.89    485     2.41    6.96
 5.29     -1.9    5.35    182     .605    [redacted] 2  -.89    38.6    .966    .143
 11.7     15.0    .376    .006    .000    7.82    .500    .409    .098    -.27

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*HO/ H-81-12 49
EGC

BURN # 1 30GE 21:57 13JAN82

IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.90	102	22.8	108	.072	10.0	17.1	609	2.94	18.1
U	IS	TH	SR	CD	SB	BI	V	CA	P
4.37	-2.4	3.31	123	.669	[redacted] 2	-.65	34.1	.806	.114
LA	CR	MG	BA	TI	B	AL	NA	K	W
8.60	24.3	.325	.008	.000	8.35	.398	.223	.107	-.67

:
*HO/ H-81 12 50
EGC

BURN # 1 30GE 21:59 13JAN82

1366

4.52	201	24.5	358	.146	14.3	25.3	707	3.65	17.3
3.61	-3.0	3.93	96.4	1.43	[redacted] 2	-.32	46.9	.986	.122
10.5	45.2	.361	.006	.002	8.21	.336	.205	.072	-.41

:
*0/ H-81 12 51
EGC

BURN # 1 30GE 22:00 13JAN82

1366

1.88	39.3	66.6	319	.033	12.2	13.6	679	3.79	11.5
1.97	-3.3	3.70	83.0	1.16	[redacted] 2	.735	53.2	.716	.134
11.1	83.8	.298	.004	.001	9.52	.368	.200	.048	.218

:
*0/ H-81-12 52
EGC

BURN # 1 30GE 22:00 13JAN82

1366

4.27	139	40.4	137	.065	11.2	14.4	1341	3.90	17.7
3.83	-4.8	3.30	99.5	.885	[redacted] 2	-1.8	44.0	1.46	.104
8.86	44.6	.238	.006	.001	8.24	.328	.167	.079	-.20

:
*

*HO/ H-81-12 53
EGC

BURN # 1 30GE 22:01 13JAN82
IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.72	59.6	9.24	43.3	.104	11.5	21.6	679	3.16	9.09
U	IS	TH	SR	CD	SB	BI	V	CA	P
6.17	-2.8	3.46	119	.480	[redacted] 2	-1.1	49.0	1.21	.126
LA	CR	MG	BA	TI	B	AL	NA	K	W
9.74	48.8	.361	.007	.001	10.4	.405	.221	.064	-.62

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*HO/ RE : H-81 11 36
EGC

BURN # 1 30GE 22:03 13JAN82
1366

1.46	35.8	8.50	63.8	.114	19.1	21.0	448	3.59	5.50
3.89	-2.4	2.80	158	.558	[redacted] 2	.462	84.0	1.13	.157
12.2	70.1	.880	.010	.007	9.43	.420	.169	.045	-.87

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*O/ STD M-2
EGC

BURN # 1 30GE 22:04 13JAN82
1366

.724	31.3	40.3	190	.348	40.3	16.6	782	2.55	10.1
.905	-3.0	1.80	39.8	1.51	2.66	.790	67.4	.488	.118
9.39	66.1	.577	.022	.086	6.99	1.33	.022	.161	-.39

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ACME ANALYTICAL LABORATORIES LTD.

852 E HASTINGS ST., VANCOUVER, B.C.
(604) 253-3158 TELEX 04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM OF SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 NITRIC ACID TO HYDROCHLORIC ACID TO WATER AT 90 DEG. C FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THE RESULTS ARE REPORTED IN PPM EXCEPT FOR : FE, CA, P, MG, BA, AL, NA, AND K WHICH ARE IN PERCENT.
THIS LEACH IS PARTIAL FOR : CA , P, MG, AL, TI, LA, NA, K, AND W.
IS= INTERNAL STANDARD.
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*
*HO/ H-81-13 54 NORANDA EXPLORATION FILE# 82-0004 PAGE 2
EGC

BURN # 1 30GE 22:18 13JAN82
1366

13.3	36.4	24.1	55.8	.170	19.6	24.3	630	3.41	19.9
4.24	-2.8	1.90	123	.851	[redacted] 2	-.27	65.2	1.18	.156
10.4	67.5	.790	.009	.006	7.22	.426	.204	.079	-.61

:
*HO/ H-81-13 55
EGC

BURN # 1 30GE 22:18 13JAN82
IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
1.67	47.6	10.2	48.5	.087	18.7	17.6	541	3.94	11.2
U	IS	TH	SR	CD	SB	BI	V	CA	P
3.85	-2.9	2.14	121	.764	[redacted] 2	.625	83.4	1.07	.166
LA	CR	MG	BA	TI	B	AL	NA	K	W
13.1	87.3	.529	.007	.014	15.1	.606	.199	.083	-1.3

:
*HO/ H-81-13 56
EGC

BURN # 1 30GE 22:20 13JAN82
1365

1.60	134	11.1	71.8	.120	18.5	19.7	621	3.65	19.2
5.01	-2.7	2.67	127	.595	[redacted] 2	20.[illegible]	49.9	.711	.158
11.7	36.7	.663	.007	.001	8.97	.435	.203	.065	-.56

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*0
*HO/ H-81-13 57
EGC

BURN # 1 30GE 22:21 13JAN82
IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.10	57.8	9.41	45.4	.110	21.5	17.7	566	3.63	24.1
U	IS	TH	SR	CD	SB	BI	V	CA	P
3.34	-2.9	2.40	123	.659	[redacted] 2	.740	43.2	.792	.138
LA	CR	MG	BA	TI	B	AL	NA	K	W
10.7	74.6	.712	.005	.001	8.20	.290	.213	.029	-.87

*HO/ H-81-13 58
EGC

BURN # 1 3ØGE 22:22 13JAN82

IS									
1366									
MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.63	26.9	7.81	49.8	.ØØ7	13.5	9.39	444	2.73	1Ø.2
U	IS	TH	SR	CD	SB	BI	V	CA	P
3.8Ø	-2.4	3.Ø9	12Ø	.453	[redacted] 2	.728	28.9	.5Ø8	.Ø88
LA	CR	MG	BA	TI	B	AL	NA	K	W
1Ø.3	72.2	.619	.ØØ4	.ØØØ	5.67	.212	.2Ø5	.Ø23	-.71

*HO/ H-81-13 6Ø
EGC

BURN # 1 3ØGE 22:24 13JAN82

1365									
4.43	27.3	8.85	49.6	.Ø15	14.Ø	8.86	462	2.51	7.11
3.82	-2.5	3.35	126	.49Ø	[redacted] 2	-.56	28.9	.979	.Ø78
11.4	82.1	.658	.ØØ3	.ØØØ	5.98	.2Ø8	.212	.Ø13	-.31

*O/ H-81-13 61
EGC

BURN # 1 3ØGE 22:24 13JAN82

1366									
4.69	155	14.4	57.6	.136	11.7	8.78	567	2.2Ø	13.7
2.89	-2.2	3.19	121	.696	[redacted] 2	-.97	27.2	1.Ø7	.Ø8Ø
11.5	37.9	.615	.ØØ9	.ØØØ	5.88	.248	.173	.Ø47	-.52

*O/ H-81-13 62
EGC

BURN # 1 3ØGE 22:25 13JAN82

1366									
4.67	236	12.3	71.9	.1Ø8	16.1	12.Ø	862	3.Ø9	17.5
4.52	-3.4	3.15	123	.692	[redacted] 2	-.61	34.Ø	.854	.1Ø1
11.Ø	52.2	.52Ø	.ØØ8	.ØØ1	6.73	.33Ø	.183	.Ø55	-.69

*O/ H-81-13 63
EGC

BURN # 1 3ØGE 22:26 13JAN82

1365									
3.88	183	9.28	56.Ø	.Ø84	16.Ø	12.2	577	2.87	6.36
2.61	-2.4	3.Ø2	127	.599	[redacted] 2	-.96	37.7	1.21	.1ØØ
11.1	35.4	.759	.ØØ5	.ØØØ	6.4Ø	.253	.189	.ØØ6	.115

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*0/ H-81 13 64
EGC

BURN # 1 30GE 22:27 13JAN82

1365

4.03	126	8.98	55.9	.096	11.6	9.19	521	2.33	10.8
4.24	-2.2	2.83	117	.667	[redacted] 2	-.85	27.4	.831	.083
10.5	41.9	.598	.006	.000	5.91	.243	.177	.049	-.71

:
*HO/ H-81-13 64 DUPLICATE
EGC

BURN # 1 30GE 22:28 13JAN82

IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.30	53.2	8.01	57.5	.142	23.8	15.8	536	3.43	10.1
U	IS	TH	SR	CD	SB	BI	V	CA	P
4.78	-2.7	2.54	110	.801	[redacted] 2	-.26	50.5	1.39	.107
LA	CR	MG	BA	TI	B	AL	NA	K	W
11.4	83.0	.956	.008	.001	6.87	.281	.168	.004	-.71

:
*HO/ H-81-13 65
EGC

BURN # 1 30GE 22:29 13JAN82

1366

3.93	33.4	8.07	74.7	.081	19.8	12.5	560	3.21	21.3
3.62	-2.8	2.93	123	.754	[redacted] 2	-.35	36.2	1.12	.102
11.6	73.9	.698	.004	.000	7.62	.281	.195	.004	-.68

:
*0/ H-81-13 66
EGC

BURN # 1 30GE 22:30 13JAN82

1365

3.95	260	9.79	50.0	.094	13.4	10.7	477	2.68	24.0
3.97	-2.1	2.53	122	.655	[redacted] 2	-1.2	32.6	1.01	.090
10.7	34.2	.683	.005	.000	5.86	.207	.186	.004	-.63

:
*0/ H-81 13 67
EGC

BURN # 1 30GE 22:31 13JAN82

1365

3.04	28.6	5.71	55.8	.038	18.5	10.7	492	2.95	29.4
3.02	-2.4	2.91	121	.506	[redacted] 2	-.78	35.6	1.30	.093
11.6	61.0	.661	.003	.000	5.69	.244	.181	.003	-.15

:
*0/ H-81-13 68
EGC

BURN # 1 30GE 22:32 13JAN82

1365

3.13	25.5	8.77	50.9	.128	16.1	10.4	532	2.92	30.4
4.56	-2.6	2.75	116	.731	[redacted] 2	-2.1	36.5	2.02	.095
11.2	77.4	.627	.010	.000	6.48	.257	.136	.004	-.27

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*HO/ H-81-13 71
EGC

BURN # 1 3ØGE 22:33 13JAN82
IS
1365

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
4.16	15Ø	1Ø.4	79.9	.119	19.7	14.8	1151	3.27	33.7
U	IS	TH	SR	CD	SB	BI	V	CA	P
3.91	-4.2	3.58	13Ø	.577	[redacted] 2	.Ø6Ø	34.4	.596	.113
LA	CR	MG	BA	TI	B	AL	NA	K	W
1Ø.8	39.1	.323	.ØØ8	.ØØØ	8.5Ø	.4Ø3	.194	.Ø54	-1.Ø

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*HO/ H-81-13 72
EGC

BURN # 1 3ØGE 22:34 13JAN82
1365

4.35	27.3	8.37	55.Ø	.Ø16	15.1	1Ø.1	655	2.73	75.7
2.34	-2.9	3.Ø2	131	.648	[redacted] 2	-1.Ø	27.9	1.Ø1	.1Ø3
9.96	66.6	.445	.ØØ5	.ØØØ	6.43	.272	.213	.ØØ8	-.73

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*0/ H-81 13 73
EGC

BURN # 1 3ØGE 22:35 13JAN82
1365

5.85	174	1Ø.1	59.5	.Ø99	1Ø.4	8.Ø4	7Ø3	2.22	117
1.23	-2.5	2.86	127	.386	[redacted] 2	-1.3	17.6	.894	.Ø71
9.1Ø	23.1	.282	.ØØ8	.ØØØ	11.6	.257	.177	.Ø73	-.87

:
*0/ H-81-13 74
EGC

BURN # 1 3ØGE 22:36 13JAN82
1365

5.85	27.1	1Ø.1	46.6	.Ø34	14.2	1Ø.4	631	3.Ø2	278
3.36	-2.7	2.76	14Ø	.552	[redacted]	-.18	22.9	.542	.1Ø1
8.41	52.4	.3Ø9	.ØØ4	.ØØØ	6.73	.252	.237	.Ø15	-.53

:
*0/ H-81-13 75
EGC

BURN # 1 3ØGE 22:37 13JAN82
1365

6.22	78.3	5.86	9Ø.3	.1ØØ	13.4	13.5	489	2.63	15.8
5.23	-2.Ø	2.36	173	.7Ø2	[redacted] 2	-1.4	33.3	1.17	.132
8.Ø9	32.1	.38Ø	.ØØ6	.ØØØ	6.2Ø	.324	.278	.Ø48	-.Ø7

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*HO/ H-81-13 76
EGC

BURN # 1 30GE 22:38 13JAN82

IS
1365

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
1.76	111	14.2	69.7	.108	10.0	11.2	463	2.52	13.1
U	IS	TH	SR	CD	SB	BI	V	CA	P
3.58	-1.9	2.42	138	.627	[redacted] 2	-.06	42.9	.642	.137
LA	CR	MG	BA	TI	B	AL	NA	K	W
9.95	32.7	.362	.008	.001	6.93	.470	.220	.153	-.55

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*HO/ H-81-13 78
EGC

BURN # 1 30GE 22:39 13JAN82

1365

1.41	49.7	4.39	52.9	.136	13.9	16.3	486	2.98	8.69
4.57	-1.9	1.99	245	.613	[redacted] 2	-2.6	56.9	2.18	.168
12.2	14.0	.672	.029	.002	7.92	.579	.442	.098	-.48

:
*O/ H-81-13 79
EGC

BURN # 1 30GE 22:40 13JAN82

1365

1.94	299	12.8	76.2	.205	15.4	16.7	559	3.77	11.7
5.11	-2.3	2.15	228	1.04	[redacted] 2	-1.7	64.9	1.66	.144
11.7	18.6	.741	.021	.004	8.96	.526	.339	.112	-.60

:
*O/ H-81-13 80
EGC

BURN # 1 30GE 22:40 13JAN82

1365

.603	43.0	8.90	63.5	.154	16.2	17.8	531	4.10	9.71
5.86	-2.3	2.90	245	.912	[redacted] 2	-.95	75.8	1.81	.179
15.8	18.1	.813	.013	.002	7.78	.562	.428	.065	-.20

:
*O/ H-81-13 81
EGC

BURN # 1 30GE 22:41 13JAN82

1365

2.14	443	7.87	67.7	.209	18.5	17.5	773	4.41	10.4
6.65	-3.2	2.72	158	1.09	[redacted] 2	-1.3	61.4	1.68	.148
10.2	37.8	.614	.010	.003	9.96	.360	.244	.040	-.87

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HO/ H-81-13 82
EGC

BURN # 1 30GE 22:42 13JAN82

IS
1365

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.15	308	5.93	60.8	.109	18.7	18.4	490	3.35	8.83
U	IS	TH	SR	CD	SB	BI	V	CA	P
3.12	-2.3	2.55	138	.807	[redacted] 2	-.34	83.5	1.07	.174
LA	CR	MG	BA	TI	B	AL	NA	K	W
14.9	49.6	.710	.008	.023	7.76	.546	.241	.041	-.40

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*HO/ H-81-13
*HO/ H-81-14 83
EGC

BURN # 1 30GE 22:44 13JAN82

1365

3.81	276	34.4	102	.357	6.74	4.87	1553	2.07	27.2
-.58	-5.0	1.83	61.0	.805	[redacted] 2	-.87	9.75	.740	.050
8.25	42.3	.199	.010	.000	5.59	.267	.020	.133	-.78

:
*0/ H-81-14 84
EGC

BURN # 1 30GE 22:45 13JAN82

1365

2.65	28.2	356	604	1.93	7.58	4.99	2323	2.01	99.9
-1.0	-7.2	2.27	62.1	3.35	1.59	-.25	10.1	.896	.061
10.5	51.1	.199	.007	.000	7.03	.220	.031	.105	-.01

:
*0/ H-81-13 85
EGC

BURN # 1 30GE 22:46 13JAN82

1365

2.78	12.8	77.2	147	.748	6.28	4.73	2379	2.10	62.9
-.20	-7.4	2.06	74.8	1.17	.359	-.58	8.76	.948	.060
9.50	43.7	.221	.007	.000	5.43	.230	.033	.106	-1.1

:
*0/ H-81-13 86
EGC

BURN # 1 30GE 22:46 13JAN82

1365

3.71	258	62.6	183	.567	9.48	7.52	2286	2.34	32.4
2.37	-6.9	2.47	84.2	1.21	.862	-1.4	13.2	1.38	.081
11.7	26.1	.385	.006	.000	5.64	.212	.044	.097	-.93

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*HO/ H-81-13 87
EGC

BURN # 1 30GE 22:48 13JAN82

IS
1365

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.57	18.6	54.5	152	.535	9.60	7.65	1652	2.30	66.6
U	IS	TH	SR	CD	SB	BI	V	CA	P
2.18	-5.4	2.11	84.9	.893	1.04	-.83	9.80	1.22	.085
LA	CR	MG	BA	TI	B	AL	NA	K	W
10.9	44.0	.320	.005	.000	6.25	.196	.023	.105	-.67

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*HO/ H-81-13 88
EGC

BURN # 1 30GE 22:49 13JAN82
1365

2.21	28.5	53.7	125	.554	8.89	8.22	1405	2.24	36.6
1.73	-4.5	2.28	109	1.05	-.86	-1.3	14.5	1.37	.093
10.7	22.8	.385	.006	.000	7.68	.310	.054	.161	-.44

:
*0/ H-81-13 89
EGC

BURN # 1 30GE 22:50 13JAN82
1365

2.64	146	50.4	118	.504	8.00	7.45	1174	1.89	52.5
3.47	-3.6	2.26	110	.813	1.65	-1.9	11.6	1.26	.077
11.0	15.2	.325	.017	.000	8.56	.557	.031	.283	-.37

:
*0/ H-81-13 90
EGC

BURN # 1 30GE 22:50 13JAN82
1365

2.86	111	34.6	111	.170	12.1	11.2	2070	2.99	32.8
.192	-6.7	2.66	102	.645	-1.2	.889	24.8	.427	.104
11.9	27.1	.186	.015	.001	7.03	.341	.072	.142	-.98

:
*0/ H-81-13 91
EGC

BURN # 1 30GE 22:51 13JAN82
1365

5.65	576	30.6	155	.247	13.1	8.57	799	2.48	29.0
3.27	-3.0	1.87	112	.921	[redacted] 2	.296	15.2	.392	.077
7.28	31.1	.141	.007	.000	6.81	.270	.052	.112	-.52

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*HO/ H-81-13 92
EGC

BURN # 1 3ØGE 22:53 13JAN82
IS
1365

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
2.93	113	4Ø.Ø	13Ø	.339	4.Ø5	3.56	1798	1.54	35.7
U	IS	TH	SR	CD	SB	BI	V	CA	P
.863	-5.5	1.88	85.Ø	.7Ø7	-.ØØ	-1.3	6.85	1.Ø2	.Ø4Ø
LA	CR	MG	BA	TI	B	AL	NA	K	W
6.87	27.8	.185	.ØØ7	.ØØØ	4.54	.3Ø6	.Ø37	.143	-.3Ø

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*HO/ RE: H-81-13 71
EGC

BURN # 1 3ØGE 22:54 13JAN82
1365

4.44	152	15.Ø	81.9	.Ø72	2Ø.2	15.3	1184	3.36	32.Ø
4.42	-4.3	3.61	133	.283	[redacted]2	.129	34.6	.613	.115
1Ø.5	39.1	.327	.ØØ8	.ØØ1	8.88	.41Ø	.196	.Ø56	-1.1

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*O/ STD M-2
EGC

BURN # 1 3ØGE 22:55 13JAN82
1365

.647	31.1	39.2	19Ø	.314	4Ø.2	16.5	783	2.55	7.92
.78Ø	-3.1	1.8Ø	39.4	1.51	.85Ø	.2Ø6	66.Ø	.488	.117
8.73	66.3	.572	.Ø22	.Ø86	5.8Ø	1.32	.Ø24	.159	.Ø94

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EGC

BURN # 1 30GE 13:07 14JAN82
IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
3.83	151	41.2	105	.432	4.75	4.71	1144	1.60	41.8
U	IS	TH	SR	CD	SB	BI	V	CA	P
[redacted]	-3.5	2.30	90.5	.749	.887	.458	7.75	.655	.049
LA	CR	MG	BA	TI	B	AL	NA	K	W
8.29	22.7	.154	.012	.001	4.93	.264	.053	.140	-.19

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*HO/H-81-14 94
EGC

BURN # 1 30GE 13:08 14JAN82
1366

2.47	11.6	50.7	141	.965	3.35	3.13	1441	1.33	31.9
[redacted]	-4.3	3.41	74.9	.772	2.12	.917	5.17	.810	.027
12.9	30.7	.179	.022	.000	4.23	.252	.034	.120	-.04

:
*O/H-81-14 95
EGC

BURN # 1 30GE 13:09 14JAN82
1366

3.03	160	26.3	91.3	.333	4.15	4.52	868	1.55	40.8
[redacted]	-2.6	2.10	102	.683	.586	-.30	7.76	1.08	.046
7.46	21.4	.161	.013	.001	6.44	.476	.044	.243	.562

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*O/H-81-14 97
EGC

BURN # 1 30GE 13:10 14JAN82
1366

3.22	36.9	29.6	132	.282	8.35	6.93	649	1.87	19.8
-.49	-2.2	2.56	129	.978	-.45	.626	16.6	1.04	.069
9.38	41.0	.336	.010	.001	5.72	.276	.097	.100	.061

:
*O/H-81-14 98
EGC

BURN # 1 30GE 13:11 14JAN82
1366

1.81	11.8	30.9	104	.176	4.79	4.30	965	1.41	24.6
-1.3	-3.[illegible]	2.47	123	.750	.925	-.70	6.46	1.42	.051
9.70	36.3	.261	.012	.000	4.50	.262	.035	.132	-.07

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0/H-81-14 99
EGC

BURN # 1 30ØGE 13:15 14JAN82
IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
5.11	350	33.4	128	.348	8.27	6.71	944	2.28	38.9
U	IS	TH	SR	CD	SB	BI	V	CA	P
-.98	-3.Ø	1.76	103	.883	.644	1.59	13.3	.844	.057
LA	CR	MG	BA	TI	B	AL	NA	K	W
7.98	41.6	.217	.Ø14	.ØØ1	7.21	.282	.Ø52	.132	-.47

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*HO/H-81-14 10Ø
EGC

BURN # 1 30ØGE 13:16 14JAN82
1366

4.63	194	31.1	71.8	.277	5.21	4.95	1418	1.61	19.4
[redacted] 2	-4.3	2.4Ø	1Ø7	.664	1.15	-.2Ø	9.82	1.24	.Ø52
8.41	33.5	.226	.Ø13	.ØØØ	7.53	.318	.Ø58	.158	-.49

:
*0/H-81-14 1Ø1
EGC

BURN # 1 30ØGE 13:17 14JAN82
1366

3.83	163	37.9	89.2	.246	4.Ø3	3.77	1285	1.24	21.Ø
-1.1	-3.8	2.11	119	.662	.68Ø	-1.7	6.87	1.34	.Ø33
7.Ø3	21.4	.138	.Ø12	.ØØØ	6.29	.464	.Ø39	.221	-.4Ø

:
*0/H-81-14 1Ø2
EGC

BURN # 1 30ØGE 13:18 14JAN82
1366

2.38	11.4	26.3	5Ø.1	.161	4.15	4.13	1472	1.38	32.7
[redacted] 2	-4.5	2.26	1Ø9	.518	.528	-1.2	5.71	1.36	.Ø4Ø
7.64	36.3	.135	.Ø11	.ØØØ	5.45	.263	.Ø36	.139	-.31

:
*0/H-81-14 1Ø3
EGC

BURN # 1 30ØGE 13:19 14JAN82
1366

2.38	38.2	27.7	68.Ø	.221	3.9Ø	3.98	165Ø	1.53	24.4
-.15	-4.8	2.Ø5	137	.587	.559	-1.1	6.77	1.62	.Ø42
6.4Ø	24.3	.141	.Ø13	.ØØØ	7.4Ø	.477	.Ø43	.253	-.62

:
*

HO/H-81-14 104
EGC

BURN # 1 3ØGE 13:2Ø 14JAN82

IS
1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
1.74	95.4	11.6	22.1	.117	3.81	3.24	1162	1.37	25.2
U	IS	TH	SR	CD	SB	BI	V	CA	P
[redacted]	-3.5	1.8Ø	96.3	.35Ø	.545	-.51	6.26	.942	.Ø29
LA	CR	MG	BA	TI	B	AL	NA	K	W
5.27	24.6	.1Ø5	.Ø11	.ØØØ	6.38	.426	.Ø34	.215	-.6Ø

:
*HO/H-81-14 1Ø5
EGC

BURN # 1 3ØGE 13:21 14JAN82
1366

8.85	258	19.1	57.9	.318	4.66	5.51	91Ø	1.69	61.Ø
-1.4	-2.7	1.9Ø	93.3	.551	1.49	.538	7.77	.845	.Ø43
6.19	2Ø.7	.121	.Ø11	.ØØØ	5.57	.261	.Ø34	.144	-.Ø9

:
*O/H-81-16 273
EGC

BURN # 1 3ØGE 13:22 14JAN82
1366

3.13	189	17.9	96.6	.Ø58	11.2	1Ø.4	83Ø	2.98	11.7
.228	-2.8	3.23	39.5	.626	.294	4.58	36.5	.299	.Ø93
6.93	23.3	.21Ø	.Ø11	.ØØ2	7.Ø3	.374	.Ø43	.Ø83	-.41

:
*O/H-81-16 274
EGC

BURN # 1 3ØGE 13:23 14JAN82
1366

2.29	142	2Ø.4	85.8	.Ø59	11.6	13.Ø	758	2.75	16.1
-.45	-2.4	2.89	59.5	.712	.63Ø	6.79	33.5	.339	.Ø96
6.78	23.9	.271	.ØØ6	.ØØ1	7.14	.383	.Ø77	.Ø84	-.34

:
*O/H-81-16 275
EGC

BURN # 1 3ØGE 13:24 14JAN82
1366

4.79	275	13.2	97.9	.Ø68	11.4	1Ø.6	366	1.73	14.1
.852	-1.3	2.78	75.1	.455	-1.4	.976	22.Ø	.448	.Ø95
5.21	28.6	.237	.Ø1Ø	.ØØ1	4.32	.334	.Ø53	.Ø67	-.15

:
*

HO/RE:H-81-14 100
EGC

BURN # 1 IS 30GE 13:26 14JAN82

1366

MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
4.79	195	32.2	71.8	.268	5.34	4.66	1422	1.61	22.1
U	IS	TH	SR	CD	SB	BI	V	CA	P
[redacted] 2	-4.2	2.28	1Ø8	.685	1.Ø5	-.83	9.92	1.25	.Ø52
LA	CR	MG	BA	TI	B	AL	NA	K	W
8.57	34.8	.226	.Ø12	.ØØØ	7.82	.316	.Ø59	.158	-.7Ø

:
*HO/STD M2
EGC

BURN # 1 30GE 13:27 14JAN82

1366

.72Ø	31.4	4Ø.9	195	.218	36.7	17.4	829	2.52	9.57
-2.4	-2.9	1.83	43.9	1.52	.154	2.51	64.7	.483	.1Ø6
9.26	66.3	.571	.Ø23	.Ø96	7.52	1.37	.Ø25	.162	-.69

:
*

M... ...AKE EXPLORATION LIMITED

... FIELD OFFICE

..., ALBERTA

HOUSTON PROJECT

FIGURE 3

D.D. HOLES 80.1 to 80.8 (1980) & 81.9 to 81.16 (1981)

DRAWN BY: D.R. BULL.

DATE NOVEMBER 1981

SCALE OF METRES 200 300 400 500

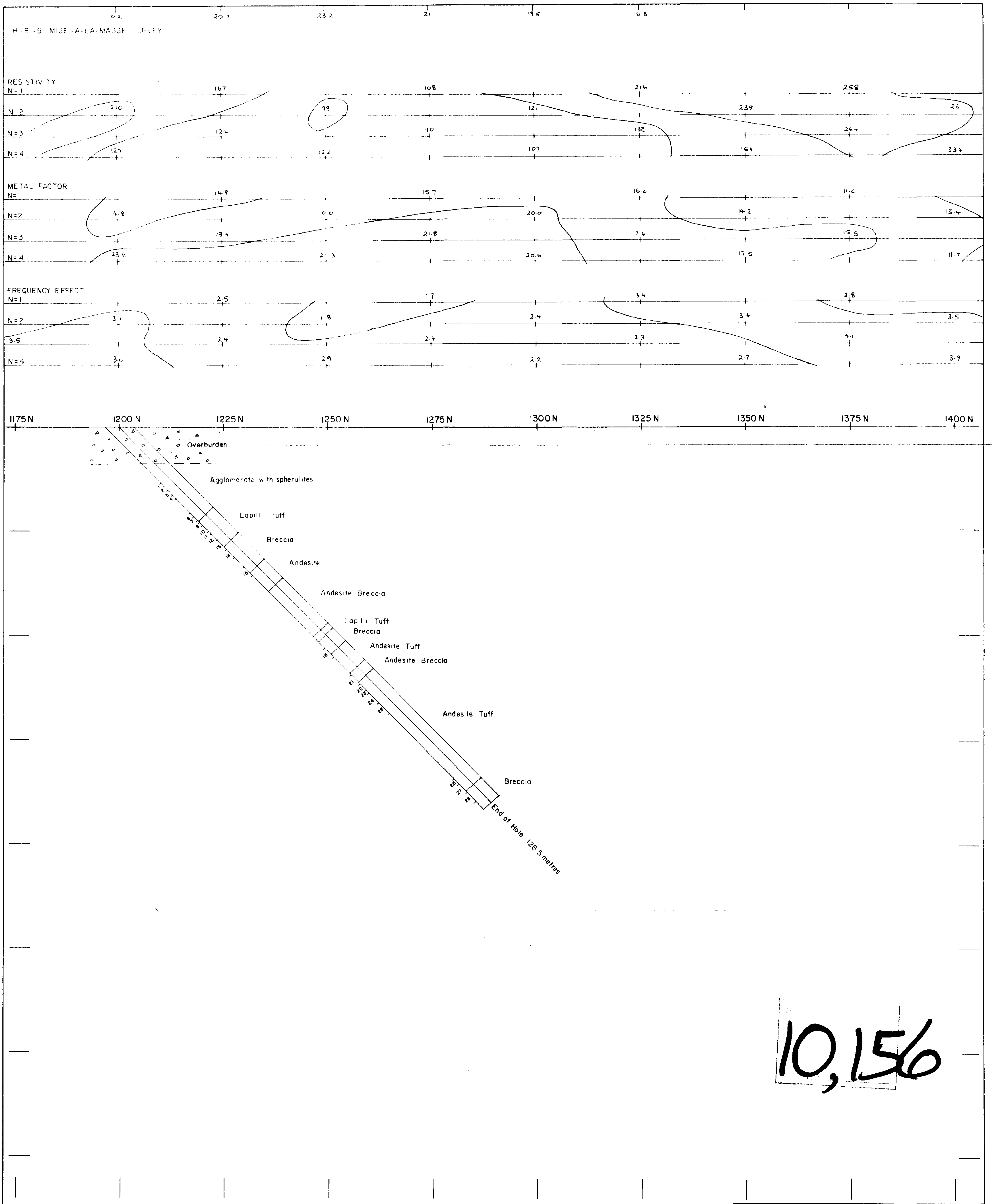


FIGURE 4

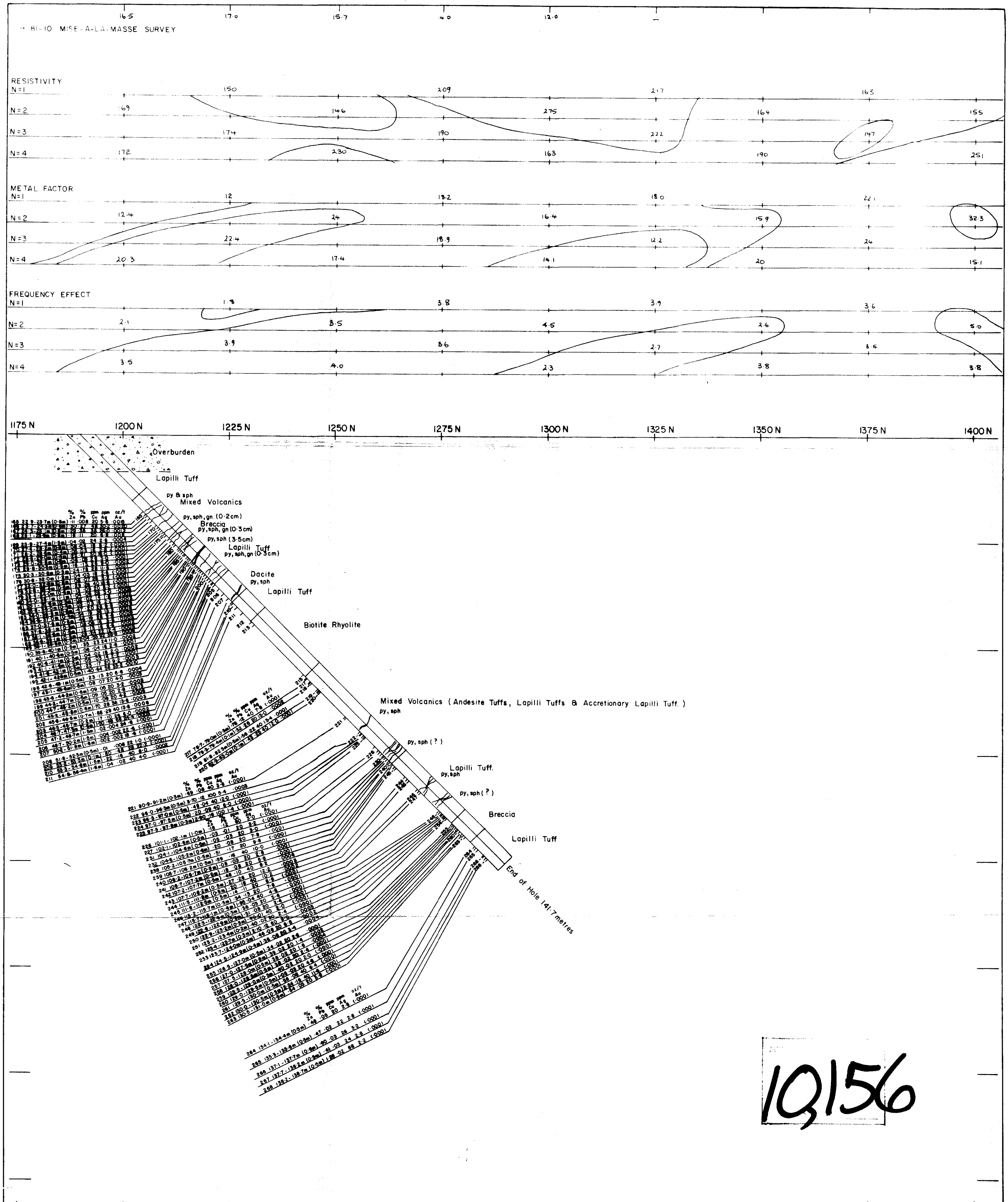
MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON - ALBERTA

PROJECT: HOUSTON	LATITUDE: 1200 N
ANOMALY:	DEPARTURE: B.L. '00'
SECTION:	BEARING: 000°
D.D. HOLE Nº: H-81-9	DIP AT COLLAR: -45°
LOGGED BY: J. HELSEN.	DRAWN BY: D.R. BULL DATE: DECEMBER 1981

0 5 10 15 20 25 30 35 40 45 50m.



10156

FIGURE 5

MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON - ALBERTA

PROJECT: HOUSTON	LATITUDE: 1190 N
ANOMALY:	DEPARTURE: 500 E
SECTION:	BEARING: 000°
D.D. HOLE Nº: H-81-10	DIP AT COLLAR: -45°
LOGGED BY: J. HELSEN.	DRAWN BY: D.R. BULL.
	DATE: DECEMBER 1981

0 5 10 15 20 25 30 35 40 45 50m

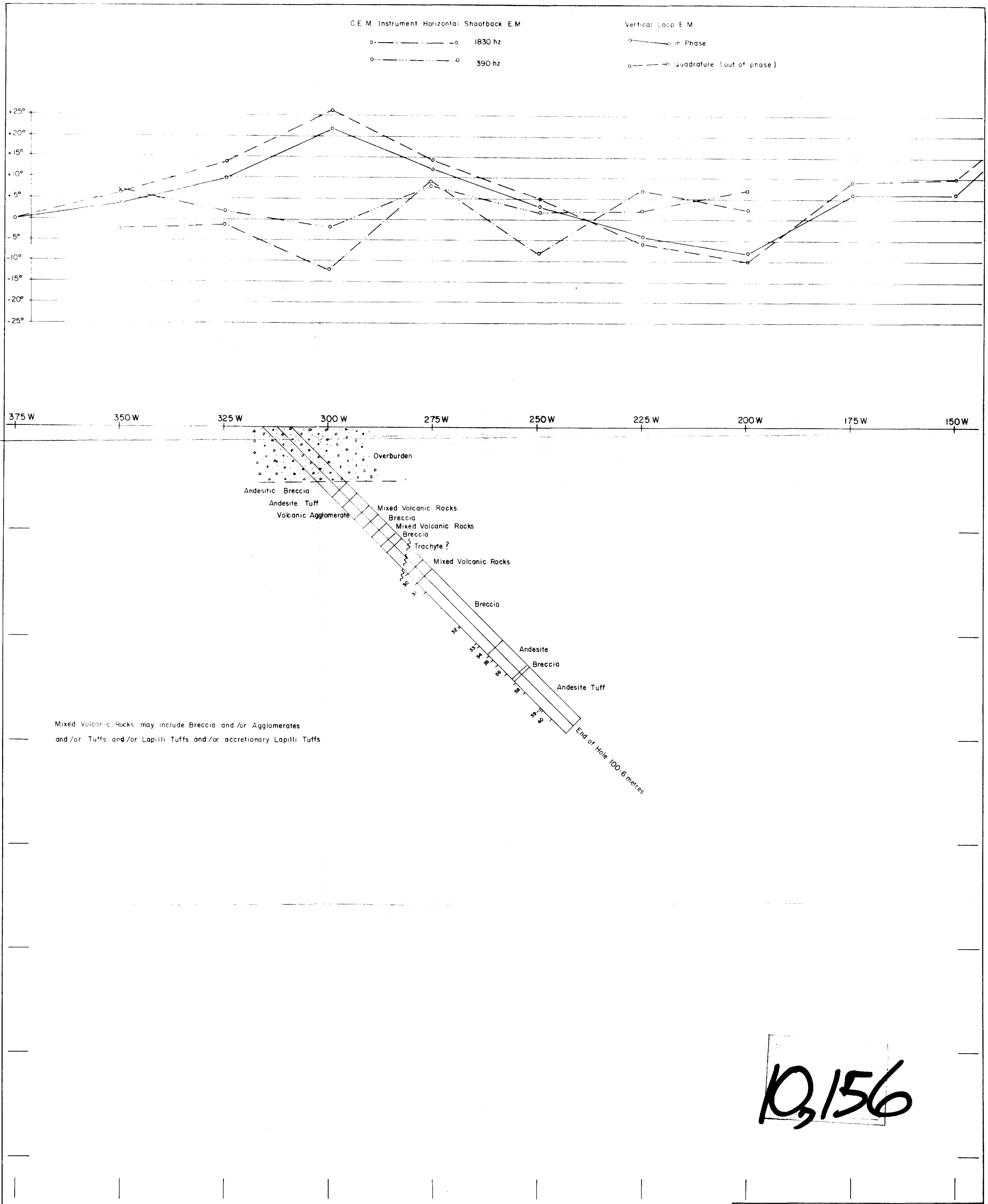


FIGURE 6

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON - ALBERTA

PROJECT: HOUSTON	LATITUDE: 1500 N
ANOMALY:	DEPARTURE: 312·5 W
SECTION:	BEARING: 090°
D.D. HOLE Nº: H-81-11	DIP AT COLLAR: -45°
LOGGED BY: J. HELSEN	DRAWN BY: D.R. BULL.
	DATE: DECEMBER 1981

0 5 10 15 20 25 30 35 40 45 50m

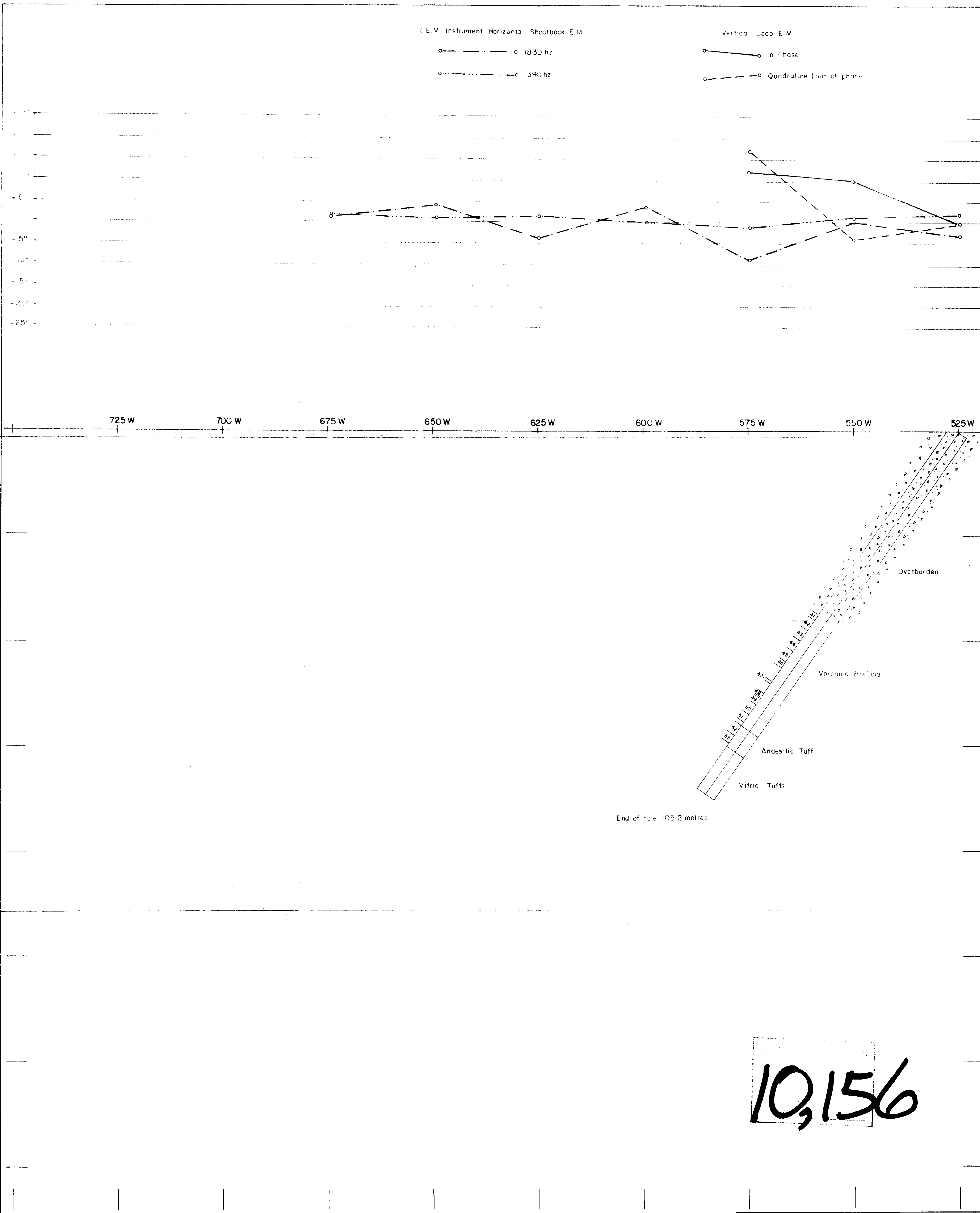


FIGURE 7

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON - ALBERTA

PROJECT: HOUSTON	LATITUDE: 1300 N
ANOMALY: -	DEPARTURE: 525 W
SECTION: -	BEARING: 270°
D.D. HOLE Nº: H-81-12	DIP AT COLLAR: -55°
LOGGED BY: J. HELSEN.	DRAWN BY: D.R.BULL.
	DATE: NOVEMBER 1981

SCALE OF METRES

0 5 10 15 20 25 30 35 40 45 50 m

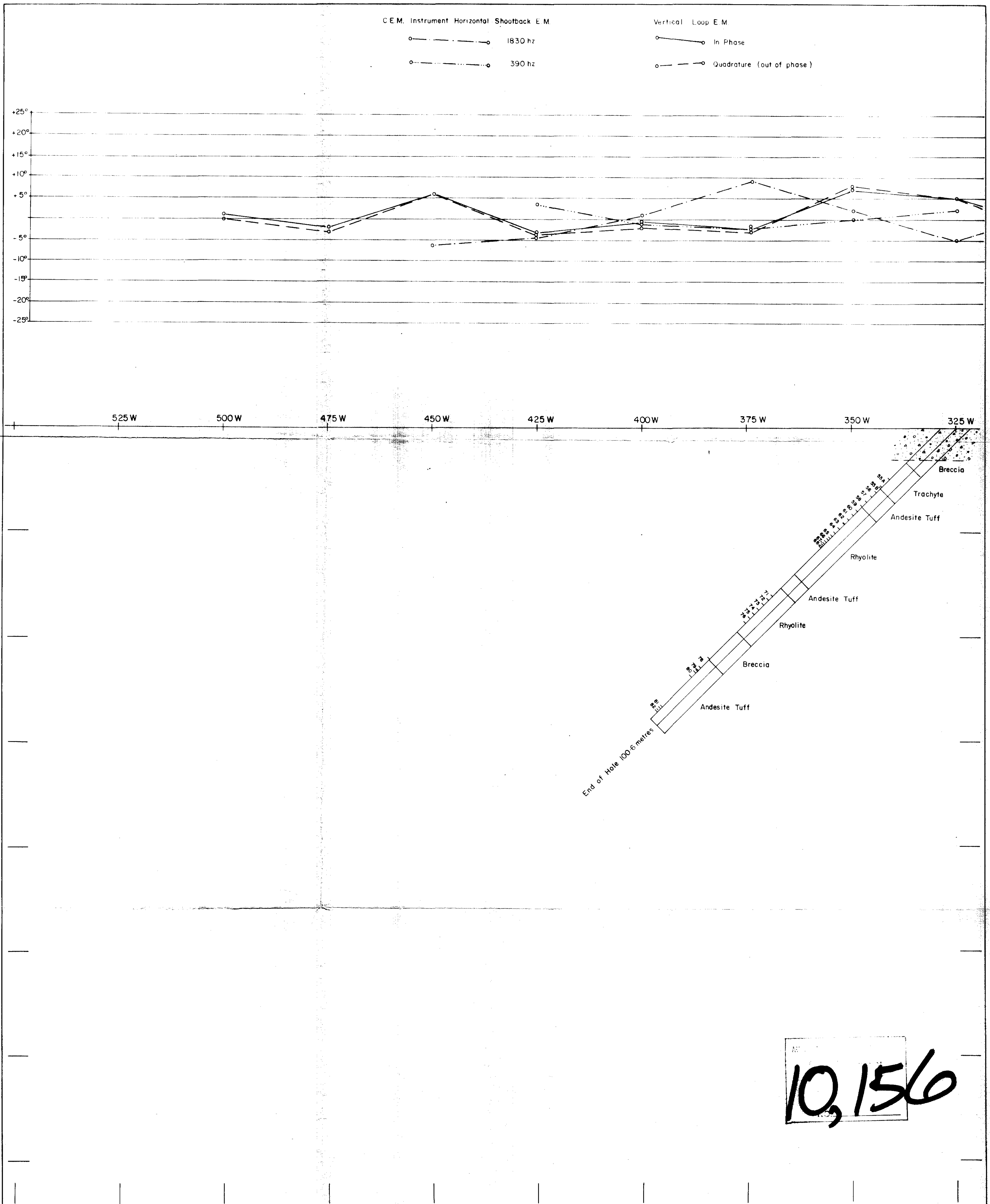


FIGURE 8

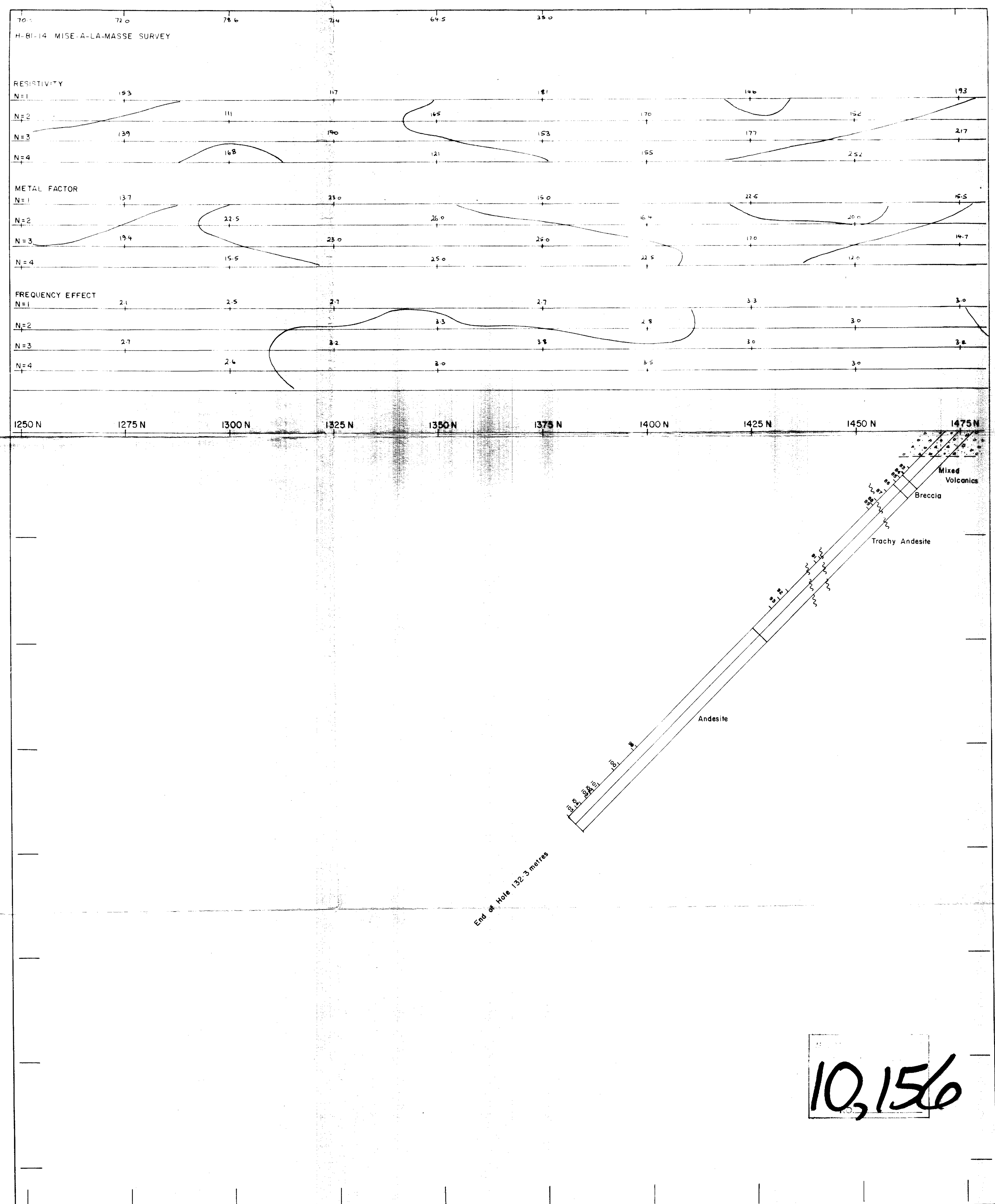
MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON - ALBERTA

PROJECT: HOUSTON	LATITUDE: 1100 N
ANOMALY:	DEPARTURE: 325 W
SECTION:	BEARING: 290°
D.D. HOLE Nº: H-81-13	DIP AT COLLAR: -45°
LOGGED BY: J. HELSEN.	DRAWN BY: D.R. BULL.
	DATE: DECEMBER 1981

0 5 10 15 20 25 30 35 40 45 50 m.



10,156

FIGURE 9

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON - ALBERTA

PROJECT: HOUSTON	LATITUDE: 1475 N
ANOMALY:	DEPARTURE: 100 E
SECTION:	BEARING: 180°
D.D. HOLE Nº: H-81-14	DIP AT COLLAR: -45°
LOGGED BY: J. HELSEN.	DRAWN BY: D.R. BULL. DATE: DECEMBER 1981

0 5 10 15 20 25 30 35 40 45 50m.

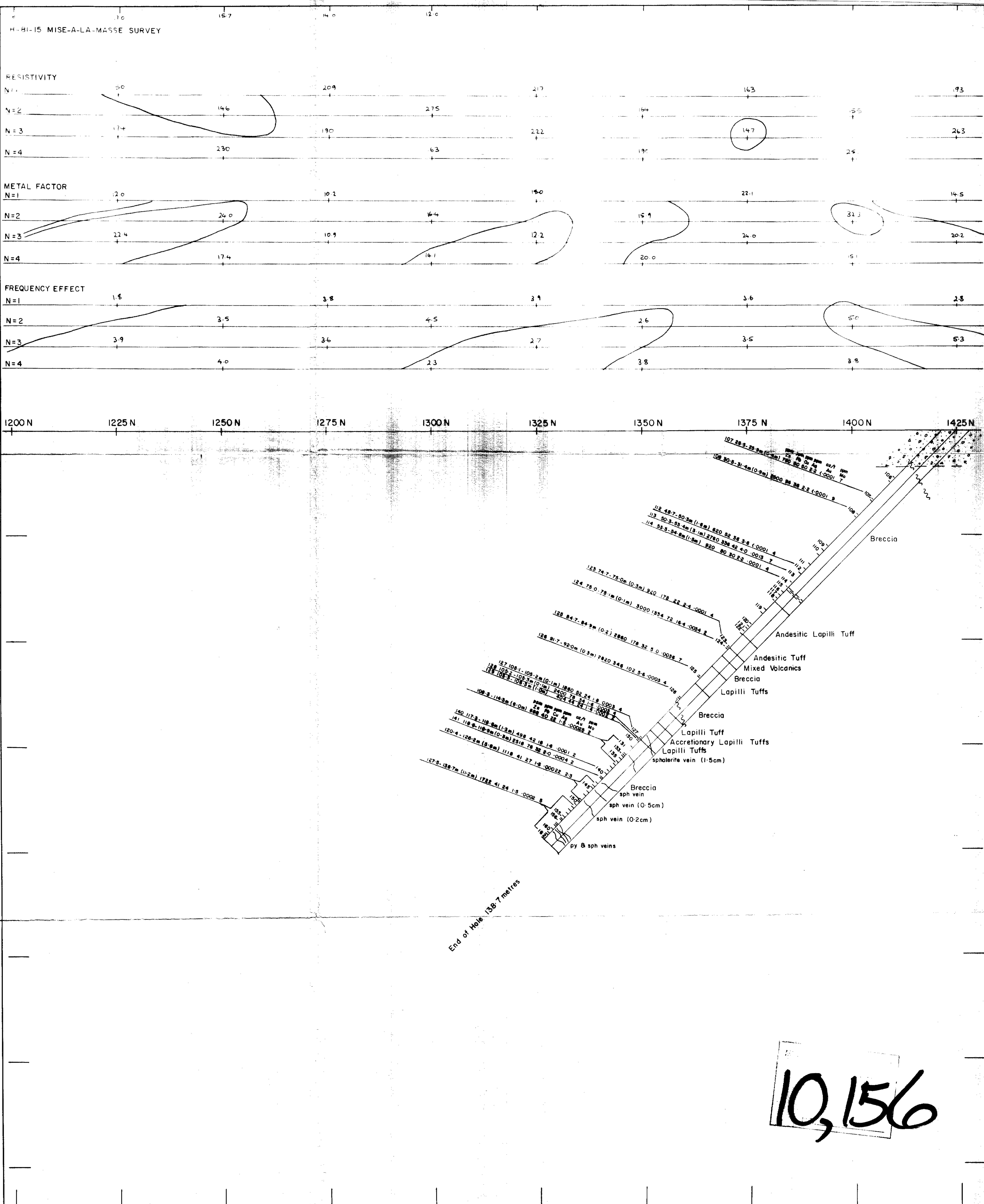


FIGURE 10

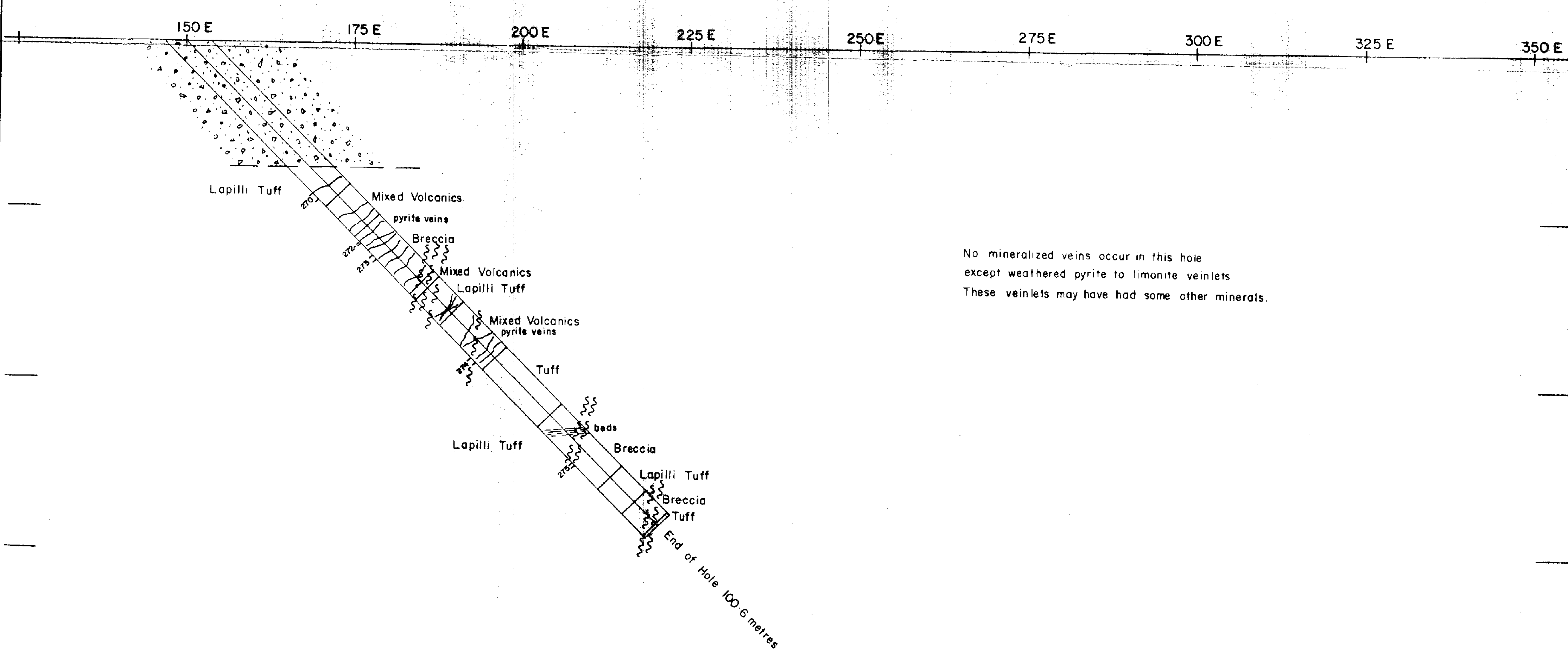
MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON - ALBERTA

PROJECT: HOUSTON	LATITUDE: 1425 N
ANOMALY:	DEPARTURE: 500 E
SECTION:	BEARING: 180°
D.D. HOLE Nº: H-81-15	DIP AT COLLAR: -45°
LOGGED BY: J. HELSEN.	DRAWN BY: D.R. BULL.
	DATE: DECEMBER 1981

0 5 10 15 20 25 30 35 40 45 50m



No mineralized veins occur in this hole
except weathered pyrite to limonite veinlets
These veinlets may have had some other minerals.

10,156

FIGURE II

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON - ALBERTA

PROJECT : HOUSTON	LATITUDE: 800 N
ANOMALY:	DEPARTURE: 150 E
SECTION:	BEARING: 135°
D.D. HOLE Nº: H-81-16	DIP AT COLLAR: - 45°
LOGGED BY: J. HELSEN	DRAWN BY: D.R. BULL DATE: DECEMBER 1981

0 5 10 15 20 25 30 35 40 45 50m