

# GM 14283

REPORT ON THE ANOMALY DIAMOND DRILLING

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Québec 

REPORT ON THE ANOMALY DIAMOND DRILLING  
FOR THE AMOS SYNDICATE  
AMOS AREA, QUEBEC  
1963

By:

H.D. Love

January 1964

Montreal, P.Q.

Ministère des Richesses Naturelles, Québec

SERVICE DES GITES MINÉRAUX

NO GM-14283

PUBLIC

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- Diamond Drill Hole Location Plan on 1000' Scale 2,000'  
or ½ mile scale Geology Plans
- Diamond Drill Hole Location on 200 scale EM & Mag -  
Geophysical Plan
- Diamond Drill Hole Section Plans (1"=50')
- Tabulated Assay Results
- Diamond Drill Logs

## SUMMARY

In the Amos area of Northwestern Quebec, including the Townships of Figury, Landrienne, and Villemontel, with the Town of Amos as centre, a diamond drilling programme was carried out from September 30th to December 16th, 1963, on anomalous zones, following a preliminary geophysical programme for the Amos Syndicate.

The greater portion of the holes was located on flat-lying farm land, easily accessible by public or private roads, which cut the area along Range lines and Lot lines. No cash settlements to farmers were necessary for access to their properties as no appreciable damage was caused by the drilling or equipment.

## INTRODUCTION

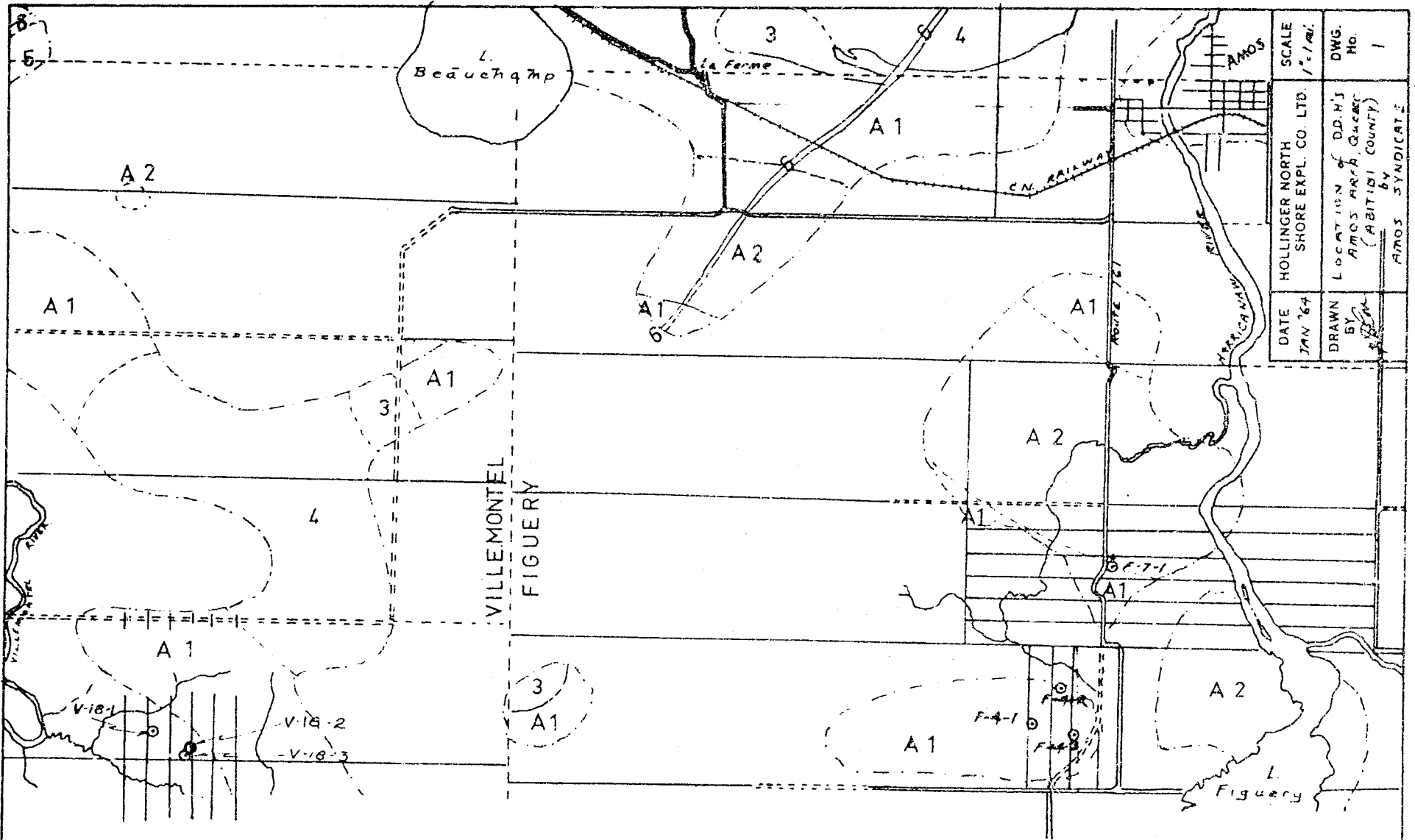
During the latter part of 1962, Prospecting Geophysics Limited began a reconnaissance geophysical (Ronka Mark IV horizontal loop E M and Sharpe A-2 Magnetometer) survey over open fields and lakes in the Amos Area.

Several companies were later approached to finance the geophysical programme. The reconnaissance geophysics was carried out on 800' interval lines over frozen lakes and open fields in eight Townships of the Amos Area. Over an anomaly, more detailed work was carried out at 200' and 400' interval lines; and interesting anomalies were staked.

### Ownership:

The Amos Syndicate consists of the following:-

Hollinger North Shore Exploration Company Limited Suite 601 - 1155 Dorchester Boulevard West Montreal 2, P.Q.	- 50%
The Consolidated Mining and Smelting Company of Canada Limited P.O. Box 1510, Station "B", Montreal 2, P.Q.	- 25%
North American Rare Metals Limited Suite 602 - 100 Adelaide Street West Toronto 1, Ont	-25%



SCALE	1" = 1 mi.	DWS. No.	1
HOLLINGER NORTH SHORE EXPL. CO. LTD.	LOCATION OF D.D.H.'S AMOS AREA, QUEBEC (ABITIBI COUNTY) BY AMOS SYNDICATE		
DATE	JAN '64	DRAWN BY	[Signature]

- |                                                    |                                      |
|----------------------------------------------------|--------------------------------------|
| <b>A1</b> BASIC Extrusive Rm<br>largely Anorthites | <b>4</b> Granite                     |
| <b>A2</b> Breccia, Tuff, Acid<br>Extrusives        | <b>5</b> Quartz-Feldspar<br>Porphyry |
| <b>3</b> Diorite, Quartz-Diorite<br>meta-Diorite   | <b>6</b> Olivine Gabbro              |

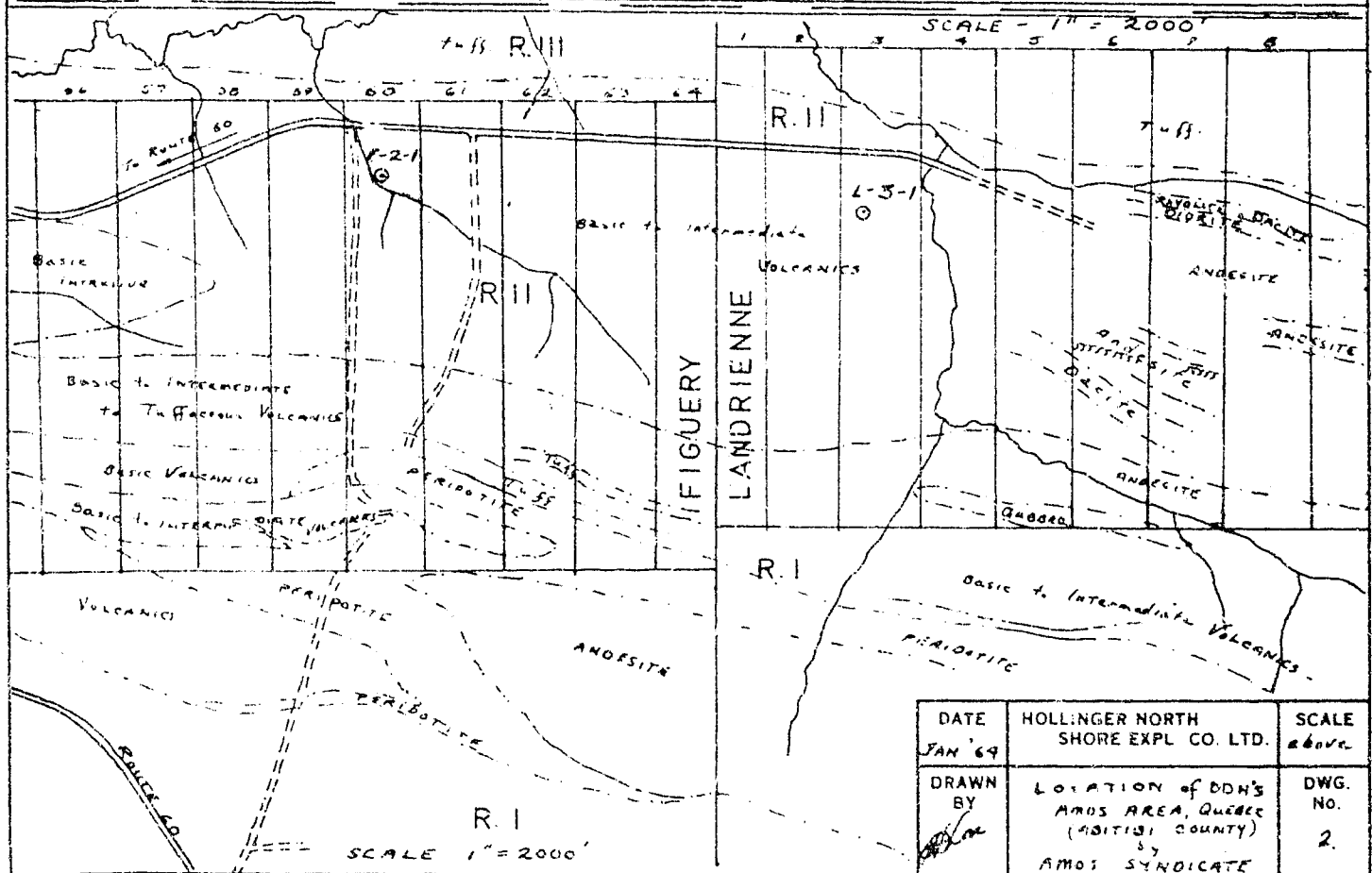
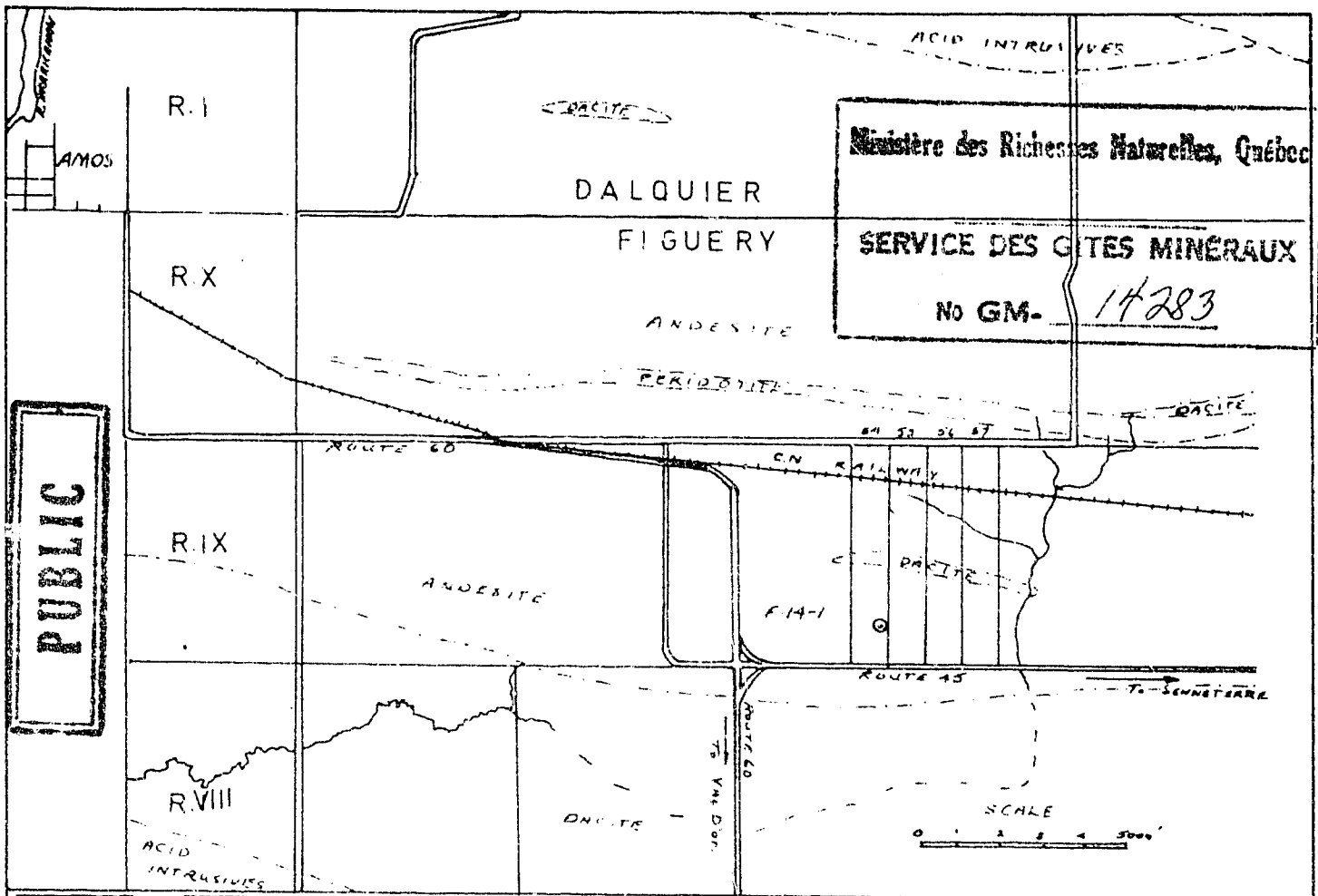
**Ministère des Richesses Naturelles, Québec**

**SERVICE DES GITES MINÉRAUX**

No GM- 14283

**PUBLIC**

K.E. ALBARENE 1964  
  
 Québec



LOCATION

Latitude: 78°00'	Amos Area
Longitude: 48°30'	Abitibi District
N&S: 32 C. & D.	Quebec.

PREVIOUS WORK OF RENEWALS

Primarily for the Amos Syndicate, a reconnaissance electromagnetic survey, employing a Ronka IV E.M. and a Sharpe A-2 magnetometer, was carried out over portions of a fairly extensive belt of volcanic rocks, which have been intruded by granite and some basic intrusives in the Amos Area.

From the results of this survey, six of the conductors indicated were outlined by detail electromagnetic and magnetic readings, along lines at 400' intervals. These six anomalies were drilled in the period from September 30th to December 16th, 1963, for a total of 10 holes.

A total of 2400 acres was staked for five of these anomalies (including anomalies Nos. 3, 4, 7, 14, and 18). Another (No. 2) was held by other interests.

Anomaly No. 2 required that a working option be obtained on the property, including Lots 55-64 (Claims 101045-1; 101044-1; 94460-1&2; 80500-1 &2; 80501-1&2; 80502-1&2). On September 25th, 1963, an agreement was made with Lithium Mines Ltd. to carry out sufficient work on the above 10 claims on Range II, Figury Township, to cover one year's assessment work and to pay current taxes and fees falling due with reference to mining claims; with the right to go in and to sample, explore, develop, diamond drill, work and/or mine the same, and to remove ore from testing and assaying purposes, and to erect buildings etc. This right is valid until February 29th, 1964, at which date the option may be abandoned, with no further obligation or work necessary. Further details are included in the Memorandum of Agreement.

Part of the assessment on Lots 55, 56, 57 and 58 of Range II, Figury Township, adjoining Anomaly No. 2 was carried out by Prospecting Geophysics Ltd. to outline conducting zones that

might represent sulphide mineralization, with the Development Licences renewed to Stewart Ghent Moore, c/o Hollinger North Shore Exploration Company Limited, for the period from October 30th, 1963 to October 30th, 1964. All taxes paid.

Following the drilling on Anomaly No. 3, Landrienne Township, Development Licences on Lots 1 & 2; 3 & 4; 5 & 6; 7 & 8 (Claims 196437, 196669, 196670, 196671, respectively) were renewed from October 4th, 1963, to October 4th, 1964.

The Transfer of Mining Rights was made on Lots 1 - 8 on Range II, Landrienne Township, including 196669 (Claims 1 & 2) from Gerald Gauthier to F.R. Hunt, 196670 (Claims 1 & 2) from Mrs. Gerald Gauthier to F.R. Hunt, 196671 (Claims 1 & 2) from Walter Orrell to F. R. Hunt, and 196437 (Claims 1 & 2) from William E. Gauthier to F. R. Hunt, on October 18th, 1963.

Two claims to the east of Anomaly No. 4 were purchased, with the claims (206021 - 1 & 2) transferred from Ronald Blais to F.R. Hunt on November 4th, 1963. Later, following the purchase, an electromagnetic and magnetic survey was carried out on these claims (Lots 25 & 26) of Figuery Township, Range VI. This programme involved nineteen miles of line cutting, with E.M. and Magnetometer readings upon them. Upon these results, two holes were drilled.

During the period from July 24th to August 1st, Nelson Hogg, of The Hanna Mining Company, and C. J. Cajka, of The Consolidated Mining and Smelting Company of Canada Limited, examined sixteen of the eighteen anomalies, with a study of the outcrops at or near the anomalies, and a collection of soil samples taken for assay.

The surface examination of these sixteen anomalies was completed and a total of 133 soil samples were collected and assayed for Cu., Zn., and Pb. from thirteen of the anomalies. The soil sampling proved to be ineffective because of deep clay overburden. Background values of the area were assumed to be 10-35 ppm. for Cu., 50-150 ppm. for Zn. and 10-10 ppm. for Pb. Of the E.M. anomalies, five were weakly anomalous in Cu (40-50 ppm) and one weakly anomalous in Zn. (150-200 ppm).

As a result of this work, diamond drilling was suggested on some of the most promising anomalies including Nos. 7, 18 and 4 for a possible total of six holes.

To conclude: Ten diamond drill holes were located on anomalous zones of good magnetometer and electromagnetic association. The results in all cases were not too encouraging as only a background of copper, nickel (trace of zinc) was encountered, with most of the conductors being due to pyrrhotite and pyrite, and/or slate, as primarily suggested from the geophysical interpretation. Although no commercial mineralization was intersected, the amount of sulphides encountered verifies the geophysical approach to the search for base metals in the intermediate to basic volcanic flows of the Amos District.

The Diamond Drill Contract was awarded to the Inspiration Mining and Development Company, with a Branch Office in Bourlamaque, Quebec.

All assays were carried out by The Bourlamaque Assay Office.

OPERATIONAL STATISTICS  
(Drilling Costs)

General:

The following is a list of expenditures incurred by the Amos Syndicate for 4492 feet of drilling of anomalous zones in the Amos Area of Quebec. A total of 10 holes were drilled and the expenditures are listed in the order of drilling.

The Inspiration Mining and Development Company's costs were quoted, excluding cost of assays, and a slight discrepancy is noted between calculated costs and that charged by the drilling company (to the favour of the Amos Syndicate).

Total expenditures are also calculated here for each member of the Syndicate, with a rough estimate of the cost of each foot drilled, based on the total cost of the entire programme.

<u>Order of Drilling</u>	<u>D.D.H.</u>	<u>Expenditures</u>	
1	L-3-1 (527')	Drilling	\$1,344.85
	SEE GM-18625	Pulling Casing	39.70
	LANDRIENAE - TWP	Core Boxes	55.00
		Assays	<u>100.00</u>
		Total	<u>\$1,539.55</u>
=====			
2	V-18-1 (694')	Moving	\$ 146.25
		Drilling	1,796.30
		Pulling Casing	63.52
		Core Trays	71.50
		Assays	<u>355.50</u>
			\$2,433.07
=====			
3	V-18-2 (498')	Drilling	\$1,308.30
		Cementing	102.43
		Reaming	382.95
		Pulling Casing	127.04
		Acid Test	5.00
		Core Trays	46.75
		Assays	<u>155.50</u>
			\$ 2,127.97
=====			
4	V-18-3 (425')	Drilling	1,081.25
		Reaming	65.79
		Pulling Casing	75.70
		Acid Test	5.00
		Core Trays	41.25
		Assays	<u>48.50</u>
			\$1,317.49
=====			
5	F-7-1 (425')	Moving	\$ 168.14
		Drilling	1,353.30
		Pulling Casing	47.50
		Material Left in Hole	71.20
		Waterline	161.37
		Acid Test	5.00
		Core Trays	55.00
		Assays	<u>101.00</u>
			\$1,962.51
=====			

<u>Order of Drilling</u>	<u>D.D.H.</u>	<u>Expenditures</u>	
6	F-4-1 (404')	Moving	\$ 120.68
		Drilling	1,028.40
		Pulling Casing	28.20
		Waterline	156.53
		Acid Test	5.00
		Core Trays	41.25
		Assays	69.50
			<u>\$1,449.56</u>
7	F-2-1 (447')	Moving	\$ 147.63
	SEE GM-14509	Drilling	1,142.10
		Reaming	83.56
		Pulling Casing	55.58
		Material left in Hole	53.35
		Core Trays	44.00
		Total	<u>\$1,526.22</u>
8	F-14-1 (308')	Moving	\$ 142.47
		Drilling	787.65
		Pulling Casing	71.46
		Waterline	215.05
		Acid Test	5.00
		Core Trays	30.25
		Assays	14.00
		Total	<u>\$1,265.88</u>
9	F-4-2 (324')	Moving	\$ 155.87
		Drilling	824.50
		Pulling Casing	23.82
		Acid Test	5.00
		Core Trays	30.25
		Assays	75.50
		Total	<u>\$1,114.94</u>
10	F-4-3 (340')	Moving	\$ 118.75
		Drilling	866.50
		Pulling Casing	7.94
		Waterline	342.10
		Acid Test	5.00
		Core Trays	35.75
		Assays	77.00
		Total	<u>\$1,453.04</u>

MISCELLANEOUS CHARGES:

Including ore bags, core trays, core storage, mining licence, taxes and transfers:-

	-	\$771.20
Assays	-	996.50
Supervision	-	3,226.49
Fall Geophysical Examination	-	6,542.35
Diamond Drilling	-	<u>15,193.73</u>
Total Expenditures for Fall Program	-	\$26,730.27
Expenditures for Initial Program	-	<u>30,944.18</u>
Total Expenditures		<u><u>\$57,674.45</u></u>

LOCATION OF DRILL HOLES

General:

During the period from September 30th, 1963 to December 16th, 1963, a total of 10 diamond drill holes were put down by the Inspiration Mining and Development Co., Bourlamaque, Quebec Branch, for the Amos Syndicate in the Amos area of northwestern Quebec.

They are located as follows, and include time involved and cost of drilling for each individual hole:

<u>No.</u>	<u>D.D.H.</u>	<u>LOCATION</u>	<u>CLAIMS</u>	<u>LOTS</u>	<u>TIME</u>	<u>COST</u>
1	L-3-1	Landrienne Twp. Range II, Lot 3 Anom.#3 at 1+00S on L4+00E Azimuth 215° Dip - 45° Depth - 527.0'	196669-1&2 196670-1&2 196671-1&2 196437-1&2	3 & 4 5 & 6 7 & 8 1 & 2	Sept.30 Oct. 4	\$1,539.55
2	V-18-1	Villemontel Township Range VI, Lot 43 Anom #18 at 10+50N of Range V-VI, on L2E Azimuth 180° Dip 45° Depth 694.0'	203786- 1-4 203785- 1-4	N½43-46 S½43-46	Oct. 5 Oct.15	\$2,433.07
3.	V-18-2	Villemontel Twp. - as above - Range VI, Lot line 44-45, Anom#18 on L16E @ 48+00S on 5+00N of Range line V-VI Azimuth 180° Dip 45° Depth 498.0'			Oct.16 Oct.25	\$2,127.97
4.	V-18-3	Villemontel Twp. - as above -- Range VI, Lot 44, Anom #18 on Line 14E, 200' W. of Lot Line 44-45 or 1+50N of Range Line V-VI @ 51+50S Azimuth 200° Dip = 45° Depth - 425.0'			Oct. 26 Nov. 1	\$1,317.49

SEE  
CM-13625  
LANDRIENNE

<u>No.</u>	<u>D.D.H.</u>	<u>Location</u>	<u>Claims</u>	<u>Lots</u>	<u>Time</u>	<u>Cost</u>
5	F-7-1	Figuary Twp. Range VII, Lot 29, Anom. 7 100'S. on L. 2+00F (Baseline is anti- line of Lot 29) Azimuth - 0° Dip - 45° Depth - 525.0'	203002:1-4 203053:1-4	E½23, 24 W½29, 30 E½22, 25 W½28, 31	Nov. 6 Nov. 12	\$1,962.51
6	F-4-1	Figuary Twp. Range VI, Lot 24, Anom#4 on line 1E (1+00E of Lot line 23-24) @ 24+00N of Range Lines V-VI) Azimuth - 180° Dip - 45° Depth - 404.0'	201481:1&2	21&22 23&24	Nov. 13	1,449.56
7	F-2-1	Figuary Township Range II, Lot 60, Anom #2 on line 0+00 (6+00 W. of Lot Line 60-61) 8+50S of Range L. II-III Dip 45° Depth 447.0'	101045-1 101044-1 94460-1&2 80500-1&2 80501-1&2 80502-1&2	55 56 57, 58 59, 60 61, 62 63, 64	Nov. 20 Nov. 22	1,526.22
8	F-14-1	Figuary Township Range IX, Lot 54, Anom#14, on L 10W (2+00W Lot line 54-55) @ 9+00N of Range Line VIII-IX Azimuth - 180° Dip - 45° Depth - 303.0'	203051-1&2 203052-1&2	54, 55 56, 57	Nov. 23 Nov. 28	1,265.88

SEE  
Gm-14509

<u>No.</u>	<u>DDH</u>	<u>Location</u>	<u>Claims</u>	<u>Lots</u>	<u>Time</u>	<u>Cost</u>
9	F-4-2	Figury Township Range VI, Lot 25, Anom #4 Ext. at 4+50E:12+00N of Base line Azimuth - 180° Dip - 45° Depth - 324.0'	206021-1	25	Dec. 7  Dec.12	\$1,114.94
10	F-4-3	Figury Township, Range VI, Lot 26, Anom #4 Ext. at 5+00S on Line 9E Azimuth - 180° Dip - 45° Depth - 340.8'	206021-2	26	Dec.13	\$1,453.04

### GEOLOGY

The geology of the area consists of steeply dipping east-west trending Kæwatin-type volcanics. Pillowed and massive andesites are the most abundant, though dacite and rhyolite are present.

Most of the drilling encountered an assemblage of metamorphosed volcanic rocks, plus dacite and rhyolite. These rocks were intruded by a variety of basic sills, and/or dykes and plugs. In general, throughout the region, these intrusives are a variety of sills, plugs, and dykes, ranging in composition from granite through to ultra-basic peridotite. Only minor sulphides were associated.

The volcanic rocks include dacite, rhyolite, and pyroclastic rocks through andesite and other intermediate to basic volcanics. The volcanic types are intercalated and are in most cases fairly gradational from one to the other. Where shearing is intense, the rock is much altered, and the original nature is uncertain.

Possible sediments were cut in Range II of Figury and Landrienne Townships (Anomalies Nos. 2 & 3) in the form of graphitic argillite or slate. Other narrow bands of slate were cut in Anomaly No. 14 and in No. 18, though some slaty bands intersected on Anomaly No. 4 and Extension were probably highly sheared tuffaceous bands.

TABLE OF FORMATIONS

Cenoziac	Recent and Pleistocene	Lake and stream sediments, organic debris, till, fluvioglacial deposits, Clay
?? Late Precambrian	Keweenawan?	Gabbro-diabase dykes
	Intrusive Rocks	Granite-diorite-gabbro, Peridotite, Pyroxenite
	Volcanic Rocks	Pyroclastic Volcanic Rocks, Tuff, agglomerate. Basic to acidic lavas, andesite, dacite, rhyolite.

Rock Descriptions:

Volcanic Rocks - In most of the drill holes and throughout the area, drilled, there are several bands of dacitic lavas intercalated with rhyolite and intermediate to basic volcanics. These dacites are medium-hard, dense, and light gray to green to creamy (where rhyolitic) in colour. They contain bands and fragments of denser, more andesitic material. The rhyolite is differentiated from the dacite by being amorphous and very hard. Small phenocrysts of quartz and feldspar are sometimes present.

The intermediate volcanics are highly sheared siliceous rocks and are mainly light grey sericite schist liberally speckled with grains or "eyes" of quartz and feldspar. Intercalated with these are bands which are more rhyolitic in appearance and hard, and contain few quartz grains.

Narrow bands of tuff, sometimes graphitic, are intercalated and interfingered with the dacitic and basic volcanics.

Some agglomerates are present in a few places, interbedded with these basic and silicic lavas. The tuffs, agglomerates, and pyroclastics are usually highly schistose and carbonitized.

In the vicinity of Anomaly #4 Extension (DDH's F-4-2 & F-4-3) there is a zone containing andesite, dacite, and pyroclastics. Also present are thin-bedded tuffs, chert, argillite, and fragmentals. These are mineralized with disseminated pyrrhotite and a few blebs of chalcopyrite. Most of the tuffs, as seen on the surface, are fine bedded slaty rocks, buff, grey, green, or black in colour. The coarser sections are locally agglomeratic.

Most of the andesites, and basic volcanics are sheared and converted to chlorite and epidote, being dark green in colour, and are intercalated with more siliceous rock, and show gradational changes or contacts with the dacites or rhyolites. The andesites encountered in the drilling were usually altered and thus were placed in the basic to intermediate group of volcanics. The basic volcanics are quite coarse grained, and appear somewhat gabbroic in texture.

#### Sedimentary Rocks

Graphitic slate or argillite was encountered in a few holes, but in very narrow highly sheared sections. In most intersections a sedimentary origin is doubtful.

#### Intrusive Rocks:

Intrusive rocks ranging in composition from a diorite to almost a pyroxenite and gabbro were intersected in the drilling. The majority were of diorite or gabbroic composition, and were relatively narrow sill or dyke-like rocks intruding the volcanics in several places. Sills or dykes containing from 50% or less dark minerals were mapped as diorite, and those with 50% or greater as gabbroic (to pyroxenite).

#### Shearing and Faulting:

Most of the rocks are schistose or foliated, with the exception of the more silicic volcanics, including the dacites and rhyolites, which are faintly foliated.

A zone of intense shearing and dragging occurs in Range VI of Figury Township, and appears to be localized in the tuff (slaty) portions, and with fragmental zones in the dacite to andesitic rock of the area. Most of the smaller intrusive bodies are also schistose or foliated.

Mineralization:

Mineralization occurs mainly as light disseminations throughout, most of the volcanics, and as stringers and lenses along shears and fracture zones. Some chalcopryite occurs associated with some of the pyrrhotite.

In the graphitic slates or argillites, the mineralization is mainly pyrite, with minor pyrrhotite, and traces of chalcopryite associated with the Pyrrhotite in places, and occurs as stringers, lenses, pods or minute slips disseminated throughout.

Some of the carbonated fracture fillings in the harder rhyolite to dacite zones contain traces of sphalerite mineralization. Most fracture faces show pyrite, pyrrhotite, and chalcopryite smeared along them. Massive, or near massive, sulphides (Py. Po. trace Cpy. and/or Zn.) occur in the larger shears or brecciated zones. Only traces of Ni., Au., and Ag. were associated with the above mineralization.

In the sheared and crenulated dacites in Figury Township, high percentages of pyrite and pyrrhotite occur with some magnetite in lenses, adding to the massiveness of the sulphide zones, and to the magnetic conductivity of the anomaly.

Geology and Economics of Drilled Anomalies:

Anomaly No. 3 - Landrienne Township

This anomaly is situated in Range II of Landrienne Township and extends in a direction slightly north-west for a length of approximately 1800 feet. The conductivity has ratios of 10 to 1, with excellent magnetic coincidence. This anomaly was more or less explained by the presence of graphitic and barren pyrite bands observed in an outcrop on the anomaly on line 4E along a stream (See Section L-3-1) for a width of 45'. Soil samples were taken, but none were anomalous.

Diamond drill hole L-3-1 was drilled at 1+00S on Line 4+00E on Lot 3. This hole consisted of interbanded intermediate and basic volcanics, with a few zones of nearly massive pyrite, pyrrhotite, and graphite, which are sheared or brecciated, plus zones or bands of nearly massive graphite slate or argillite containing up to 40% pyrrhotite and pyrite, with only a trace of chalcopryite associated with the pyrrhotite. The lower portion

of the hole and the rock to the south is mainly a basic volcanic (or andesite), which is quite highly sheared, altered (chloritized) in places, with up to 10 or 15% disseminated pyrrhotite and a trace only of chalcopryrite. The sections from 104' to 185' and from 237' to 284' are the main conductive zones (see section), with the former being heavily sheared where near-massive sulphide stringers and lenses appear, together with some graphite; the latter section consists of large zones of slate and a massive pyrite section along a shear. This conductor was more or less expected.

Anomaly No. 18 - Villemontel Township

This anomaly is situated in Range V (North Section) and Range VI on Lots 42 to 45, with three conductors over a strike length of one mile, with maximum width of 100' and an E.M. ratio of 5:1. The magnetics are strong and coincident. No outcrop is seen in the immediate area. No anomalous soil samples were found.

Although the length of the E.M. conductor suggested a graphite zone, only one hole showed a narrow slate zone, which was probably not part of the conductor.

The best anomaly follows a small hill and was drilled as V-18-1. This hole was collared in sheared basic volcanics with a few dacite or tuffaceous bands (rhyolitic?) showing some sphalerite mineralization, although no assay for Zn. was obtained - here the rock is highly carbonitized along fractures and is brecciated locally.

This rock is underlain by a rhyolite zone with up to 10% disseminated pyrrhotite and pyrite; only a trace (to 0.02%) of chalcopryrite was present. The above rock is further underlain by an intercalated zone of gradational dacite to tuffaceous or intermediate volcanics with only a little disseminated pyrrhotite and pyrite, followed by a glassy, hard, rhyolite to dacite, with numerous narrow sheared, and/or crenulated zones of near-massive pyrite, pyrrhotite, with stringers and lenses of pyrrhotite (trace chalcopryrite) and pyrite scattered along foliation throughout. The latter part of the hole is somewhat tuffaceous.

Two basic intrusives, closely related to a gabbro, were encountered in the basic volcanics.

V-18-2 is located on lot line 44-45 about 5+00N of Range Line V-VI or 5+50 S and 14+00E of V-18-1. This hole was very similar to that drilled in the upper portion of V-18-1, and thus some correlation can be seen. The hole was collared in a rhyolite (or dacite?), with the slaty-bands containing up to 15% pyrrhotite and pyrite. This is underlain by a tuffaceous zone containing numerous shears, with veinlets of near massive pyrite and pyrrhotite along these and in brecciated zones. This rock type is in places described as a spotted tuffaceous rock or rhyolite rock, but is most likely a variety of dacite. The zone from 168' to 224' approximately, describes adequately the conductive zone on surface.

The lower portion of the hole consists of basic volcanics intruded in three places by an intrusive sill or dyke rock of gabbroic nature. These can be quite easily correlated with those found in V-18-1.

V-18-3 is located 1200'E and 1300'S of V-18-1 and 200'W and 350'S of V-18-2, and can be correlated with V-18-1. This hole consists mainly of interbanded basic and tuffaceous (or intermediate) volcanics.

The conductor here can only be explained by the presence of pyrrhotite and pyrite as stringers and lenses in a band of tuffaceous rock from 207' to 280'. Only a trace of copper and nickel is here indicated.

In conclusion, it can be said that only V-18-1, involving the best conductor, has a background in copper, plus traces of gold and silver.

#### Anomaly No. 7 - Figury Township

This anomaly is situated on Lot 29, Range VII, about three miles due south of Amos on Highway 61, crossing the highway with an E.M. ratio of 4:1 and 5:1 over a length of 1800' plus and a width of 100', with strong coincident magnetics. A large zone of outcrops occur to the south of the drill hole, consisting of siliceous or andesitic volcanics, ranging from  $\frac{1}{2}$  to 1 mile in width.

Two old trenches are located on line 7E, showing some finely disseminated pyrrhotite, but not in sufficient amounts to give an electromagnetic response, although some blebs, pods, and lenses of massive mineralization are present. The outcrop of massive andesite, occurring 100 feet to south of base line (and conductor) contains, on its north edge, 3% disseminated pyrrhotite. The south edge, 600 feet south, consists of a mineralized flow top exposed for a strike length of 60' and having a width of 15'. This has been trenched in three places, showing disseminated and massive pods of pyrrhotite, with some chalcopyrite. A grab sample collected by Prospecting Geophysics assayed 0.45% Cu. The strike of the exposed rock is N 80° E and the dip essentially vertical.

An outcrop of siliceous volcanics about 200'E and 200' N of the drill hole shows a shear zone with some massive pyrrhotite and pyrite mineralization, plus a trace of chalcopyrite.

Soil sampling over this conductor showed two assays weakly anomalous in copper.

Diamond drill hole F-7-1, located 100'S of base line (see location sketch) on line 2E and 100'S was drilled to the north and encountered interbanded andesite and dacite, with only minor sulphides (less than 3%). The rock is much fractured (fractures lightly carbonated), with numerous slaty stringers in the upper portion of the hole.

Assaying showed a trace to 0.05% Cu, and 0.05% Ni average, with the better assays occurring in a zone of dacite containing up to 15% pyrrhotite, plus pyrite occurring as pods, stringers, and lenses, and near-massive stringers - here assaying a trace to 0.06% Ni, trace to 0.05% Cu. No equivalent values to those found in the trenches.

One slate zone of 1.2' occurs at depth along a shear in the dacite.

No further drilling was considered necessary here.

Anomaly No. 4 and East Extension - Figuery Township

These anomalies are situated on Lots 24, 25, and 26 in Range VI.

Anomaly No. 4 proper has an E.M. ratio of 5:1 and a length of approximately 300', with a maximum width of 50', with strong coincident magnetics.

No outcrop was found near the anomaly, but a large outcrop of massive andesite or dacite occurs to the south, and pyroclastics in dacite occur 1000' to the east on lots 25 and 26, where further geophysics were carried on in December 1963, and, as a result, two holes were spotted on two of the three or more conductors located.

F-4-1 yielded no mineralization of economic interest, although sulphides were encountered. The hole was collared in dacite, but consisted mainly of andesite, somewhat altered and chloritized, with a few dacitic bands intercalated. Pyrite and pyrrhotite occur as minor disseminations, pods, and lenses, throughout. The greatest amount of these sulphides occur in a wide dacite band from 206' to 277' and are assumed to be the cause of the conductor, although questionable.

Lots 24 and 25 were primarily held by other individuals, but upon the purchase by the Amos Syndicate, a geophysical programme was carried out and three east-west trending conductors were found with ratios from 1:1 to 4:1, and a maximum width of 300', with fairly good magnetic coincidence.

F-4-2 was located to the east of two trenches, at 12+00N and at 4+50E on the grid on lot 25. The hole consisted mainly of a mottled, porphyritic, unfoliated dacite with numerous lenses and veinlets of massive pyrite (with minor pyrrhotite) plus magnetite disseminated, but a concentration occurs in a highly crenulated and altered section (andesite) which is unmistakably the conductor, and is strongest from 149' to 178'.

A few diorite sills or dykes are intruded. No economic mineralization was encountered.

F-4-3 was located 450'E and 1700'S of F-4-2 on a long conductor of a maximum width of 300' and an E.M. ratio of 4:1, and was found to consist of a hard dacite, only faintly foliated, with a few lenses and bands of slate (probably tuffaceous bands), which were sometimes graphitic and only narrow zones of massive

sulphides (pyrite). The slate contains a fairly large amount of pyrite with minor pyrrhotite, plus a trace of chalcopyrite and sphalerite, with light disseminations elsewhere.

No economic values were encountered.

#### Anomaly No. 2 Figuery Township

This anomaly is situated on Lot 60 and Lot 61, Range II, with a maximum EM ratio of 2:1 over a length of 1200' and a maximum width of 150'. No outcrop was exposed on the property, but being on strike with Anomaly No. 3 in Landrienne Township, Range II, the possibility of graphite was not overlooked. After obtaining a limited option on the property from S.G. Moore, a drill hole was spotted. Two previous drill holes on Lot 58, to the west, cut a few stringers of chalcopyrite and pyrrhotite. Further to the northeast, some chalcopyrite and sphalerite have been encountered in trenching and drilling.

F-2-1 was spotted on line 0+00, 850' south of Range Line II-III (400' W of lot line 60-61), and immediately encountered a graphitic slate or argillite lying within a sericite schist (probably of intermediate volcanic origin), underlain by intermediate and basic volcanics, plus a few zones of feldspar porphyry (andesitic to dacitic origin?), and these rocks were foliated to massive, with very few sulphide lenses or slips disseminated, except in the slate. No apparent chalcopyrite.

#### Anomaly No. 14 Township Figuery

This anomaly is situated on Lots 55 and 56, Range IX, with a maximum E.M. ratio of 3:1 and a length of 300', and a maximum width of 40', with no coincident magnetics. A massive andesite outcrops immediately to the west of the grid and is on strike with the E.M. conductor 400' north of Range Line VIII-IX. The conductor has a length of 1500 feet, but only the east end of the conductor shows high conductivity. It appears to show up again to the west on lot line 52-53. A small gabbro intrusion is also present about 1000' north of the anomaly.

Diamond drill hole F-14-1 encountered intermediate to tuffaceous volcanics with a few slaty stringers and minor disseminations of pyrite and pyrrhotite, overlaying a mineralized and graphitic slate band (probably the conductor), which is further underlain by andesite and tuff, with the upper section of the tuff containing numerous stringers of massive pyrrhotite, pyrite, with a trace of chalcopyrite associated with the pyrrhotite. No economic values were obtained.

CONCLUSIONS AND RECOMMENDATIONS

As a result of a rather successful geophysical reconnaissance survey over a rather favourable geological area, a total of ten drill holes were located on six of the eighteen anomalous zones.

The results of the drilling proved to be rather discouraging economically, as no base metal values of commercial interest were found. However, in most cases, sulphides were found in appreciable amounts where geophysically predicted, and graphitic slates also where predicted, thus indicating that this method of approach is reasonably sound in this region of few outcrops and generally fairly light overburden.

A similar approach to the other townships in this region of Keewatin type volcanics, which have been intruded by peridotites, gabbro, diorite, quartz-diorite, syenite, quartz porphyry and granite might be suggested. Since, also, the Syndicate approach to exploration has proved rather inexpensive, it would appear to be the best method of approach to investigate neighbouring townships in this region of Northwestern Quebec.

References:

Report on the Reconnaissance Geophysical Surveys for Amos Syndicate by J. J. Bergmann (Proposing Geophysics) July 10th, 1963.

Amos Syndicate Property Examination, Amos, Que. by C.J. Cajka (The Consolidated Mining and Smelting Company of Canada Ltd. - July 24th to August 1st, 1963.

Preliminary Report on Parts of Dalquier and Figuery Townships, Abitibi - East County, by W. W. Weber (Quebec Department of Mines) PR No. 246 - 1950.

Preliminary Report on the South Half of Figuery and the South-west Quarter of Landrienne Township - Abitibi - East County, by J. I. Sharpe (Department of Natural Resources, Quebec) - PR 446, 1961.

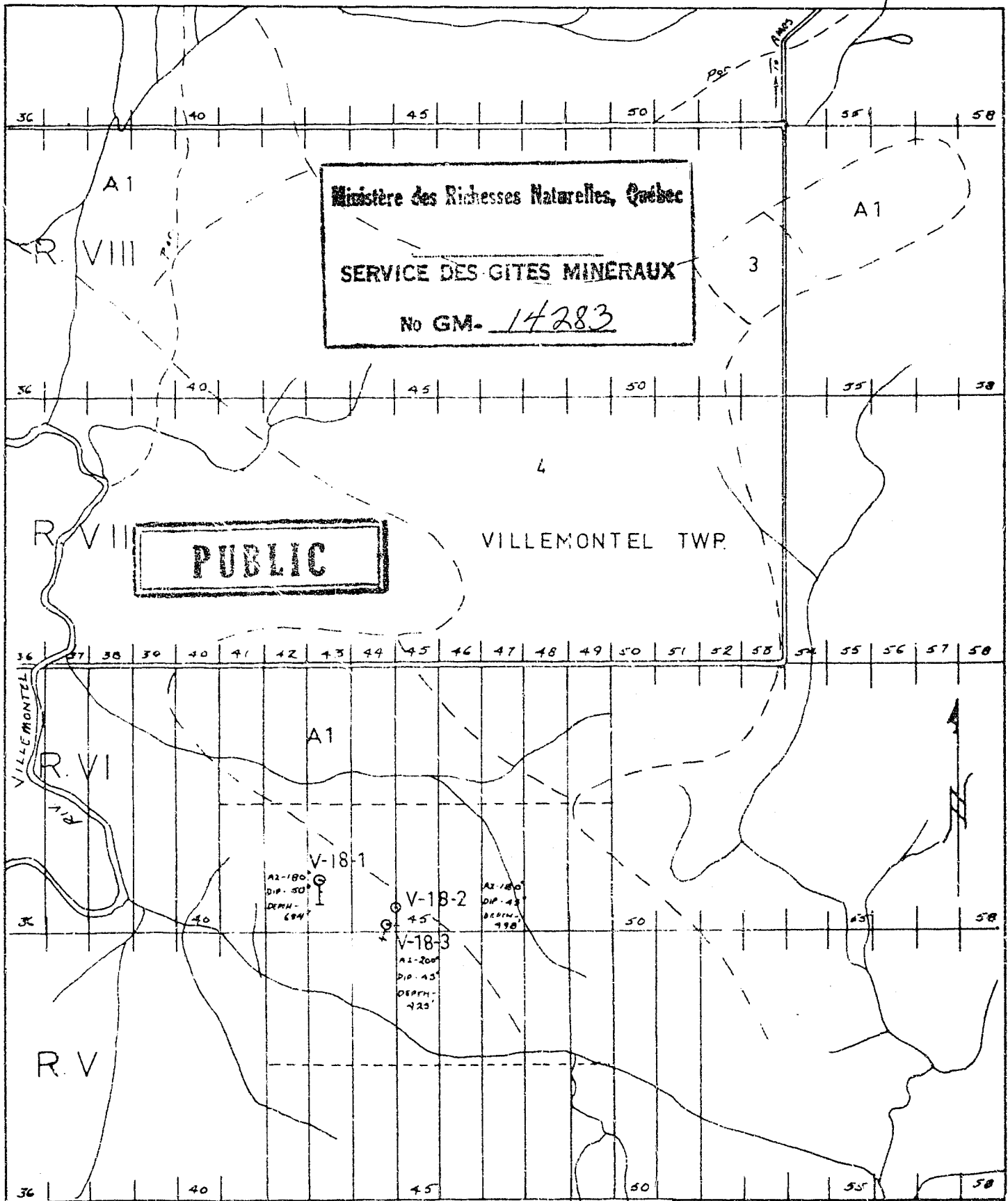
Respectfully submitted,

HOLLINGER NORTH SHORE EXPLORATION COMPANY LIMITED

H. D. Love  
Geologist

APPENDIX I

DIAMOND DRILL HOLE LOCATION PLAN  
ON 1000' SCALE 2,000' OR  $\frac{1}{2}$  MILE  
SCALE GEOLOGY PLANS



Ministère des Richesses Naturelles, Québec  
 SERVICE DES GITES MINÉRAUX  
 No GM-14283

PUBLIC

V-18-1  
 A2-180'  
 DIP-50°  
 DEPTH-694'

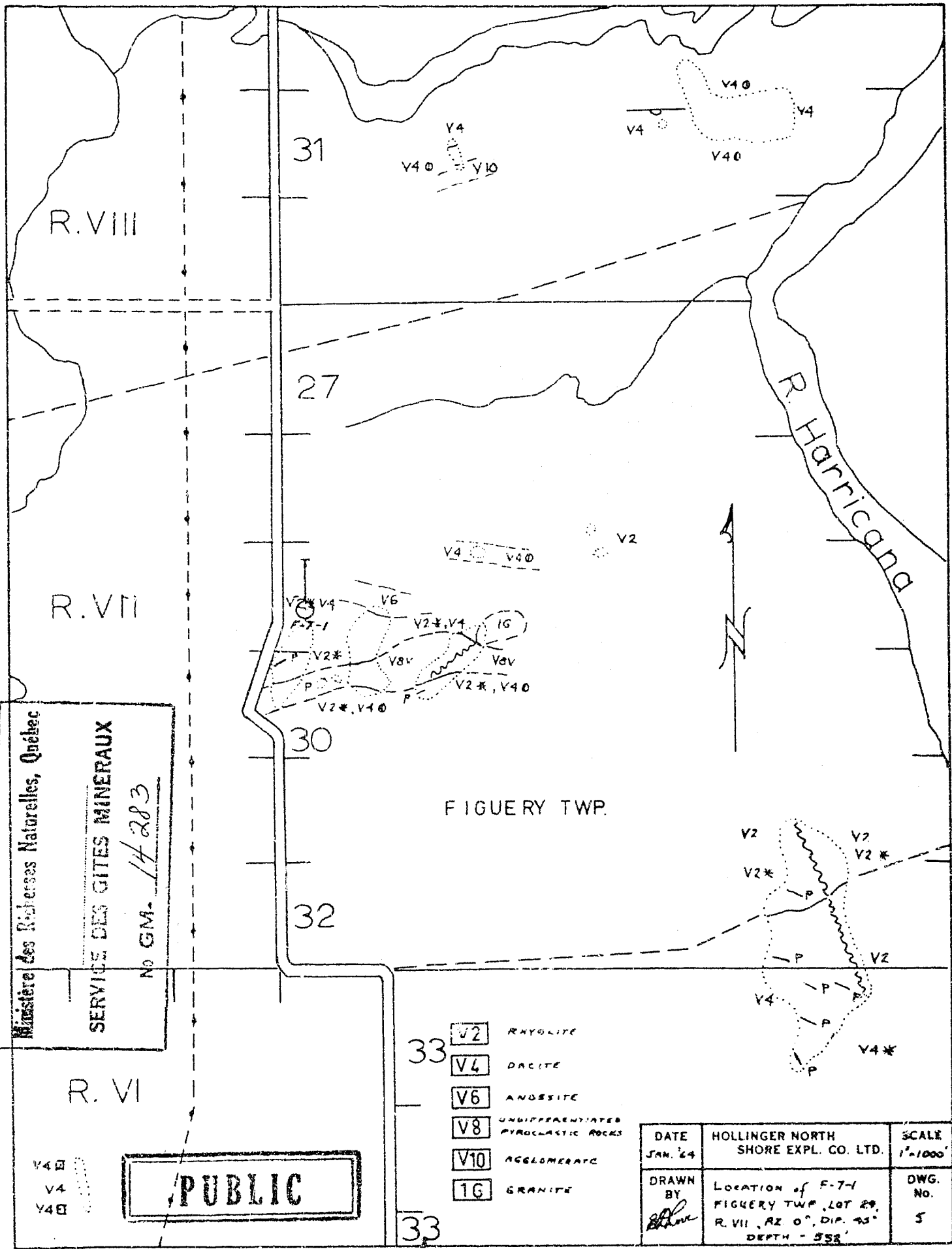
V-18-2  
 A2-180'  
 DIP-45°  
 DEPTH-498'

V-18-3  
 A2-200'  
 DIP-45°  
 DEPTH-725'

- A1** BASIC EXTRUSIVE ROCKS  
largely ANDESITES
- 4** GRANITE
- 3** DIORITE QUARTZ DIORITE  
MATH-DIORITE

GEOLOGY from MAPS 27A (1983, 1984)  
 CANADA DEPT. of MINES.

DATE JAN '84	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 2" = 1 mi.
DRAWN BY <i>[Signature]</i>	LOCATION of DRILL'S. V-18-1, V-18-2, V-18-3 VILLEMONTEL TWP, LOTS #3 144, R.VI.	DWG. NO. 4



Ministère des Richesses Naturelles, Québec  
 SERVICE DES GITES MINÉRAUX  
 No. G.M. 14283

**PUBLIC**

- 33 V2 RHYOLITE
- V4 DRCITE
- V6 ANDÉSITE
- V8 UNDIFFERENTIATED PYROCLASTIC ROCKS
- V10 AGGLOMERATE
- IG GRANITE

DATE JAN. '64	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1"=1000'
DRAWN BY <i>[Signature]</i>	LOCATION of F-7-1 FIGUERY TWP., LOT 29, R. VII, AZ 0°, DIP. 35° DEPTH - 358'	DWG. No. 5

PUBLIC

Ministère des Richesses Naturelles, Québec  
SERVICE DES GITES MINÉRAUX  
No GM- 14283

R.VII

30

32

AMOS  
TO



FIGUERY TWP.

33

R.VI

31

ROUTE 61

V4B  
V4  
V4B

F-4-2

V4B  
V4

V10

F-4-1

V8

F-4-3

V4

V10

29

20

25

27

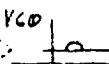
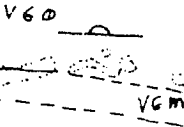
R.V

- V4 DACITE
- V6 ANDESITE
- V8 UNDIFFERENTIATED PYROCLASTIC ROCKS
- V10 AGGLOMERATE

DATE JAN '64	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1"=1000'
DRAWN BY <i>[Signature]</i>	LOCATION of DDM's F-4-1, F-4-2, F-4-3 FIGUERY TWP., LOTS 25, 26, R VI, A2, 100, 101	DWG. No. 6

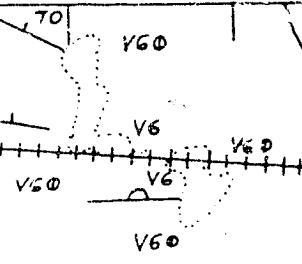
FIGUERY TWP.

R. X



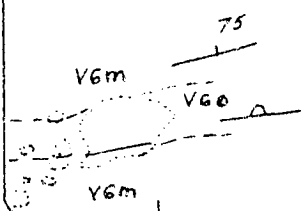
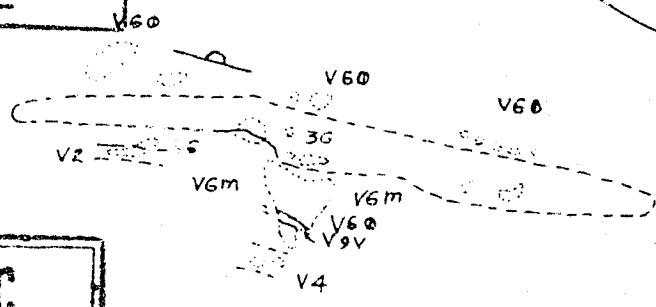
V60  
55

Ministère des Richesses Naturelles, Québec  
 SERVICE DES GITES MINÉRAUX  
 No GM- 14283



R. IX

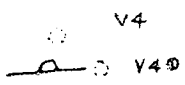
PUBLIC



55

R. VIII

- V2 RNYOLITE
- V4 DACITE
- V6 ANDESITE
- V9 TUFF



DATE JAN. '64	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 1000'
DRAWN BY <i>[Signature]</i>	LOCATION of F-14-1 FIGUERY TWP. LOT 54, R. IX, A2. 180° DIP 45° DEPTH-303	DWG. No. 8.

APPENDIX II

DIAMOND DRILL HOLE LOCATION PLAN  
ON 200 SCALE E.M. AND MAGNETOMETER  
GEOPHYSICAL PLAN

SERVICE DES GITES MINÉRAUX

No GM- 14283

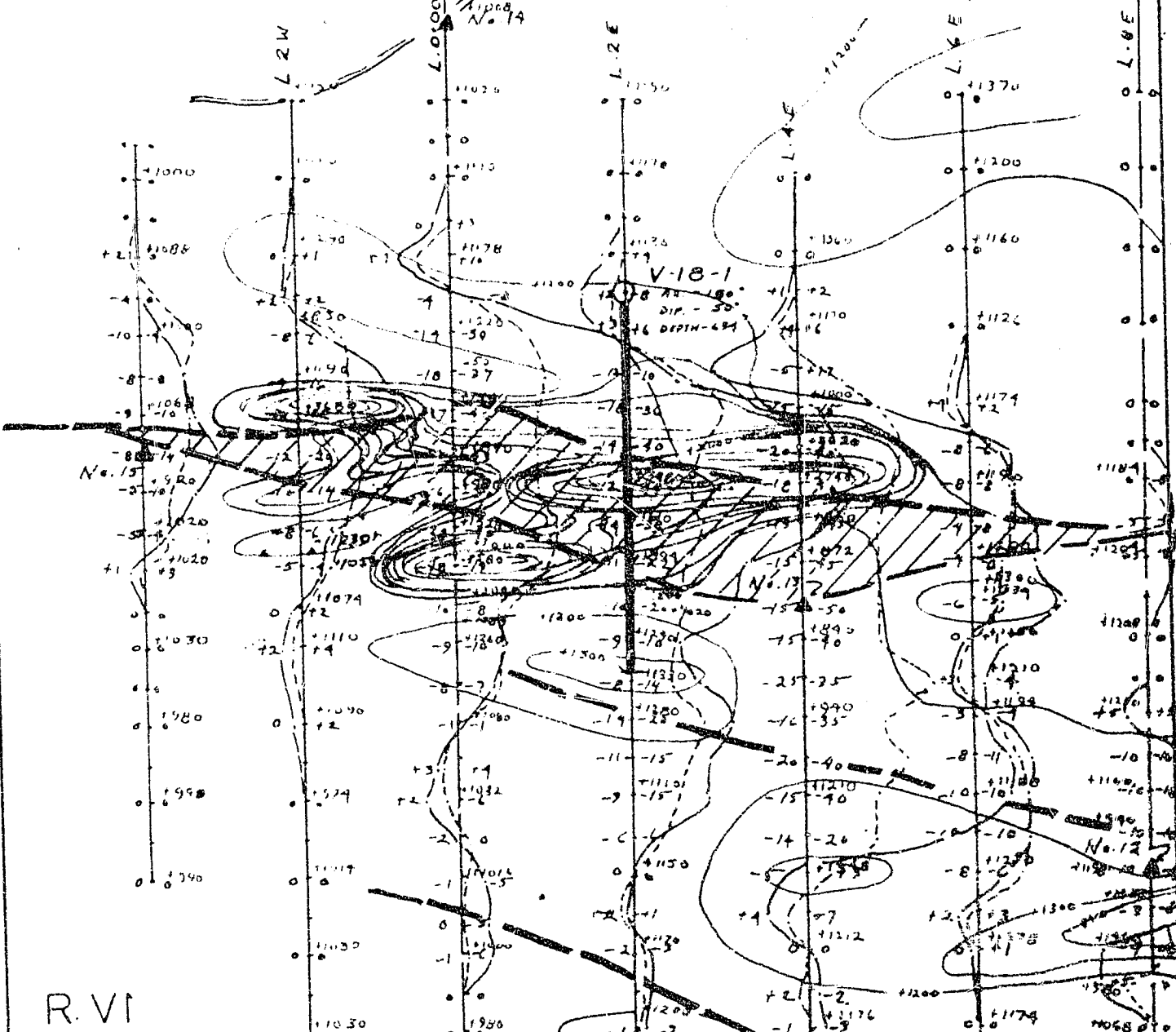
LOT 42

LOT 43

PUBLIC

BEAVER POND

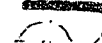
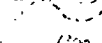
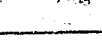
203785 d.1




R. VI

53 S

R. V

Z.M.  CONDUCTOR  
 E.M.   
 M.A.O. 

DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE
JUN. 24		1" = 300'
DRAWN BY	LOCATION of V-18-1 WITH E.M. & MAGNETICS VILLEMONTL TWP. LOT 43, RANGE II.	DWG. No.
		10.

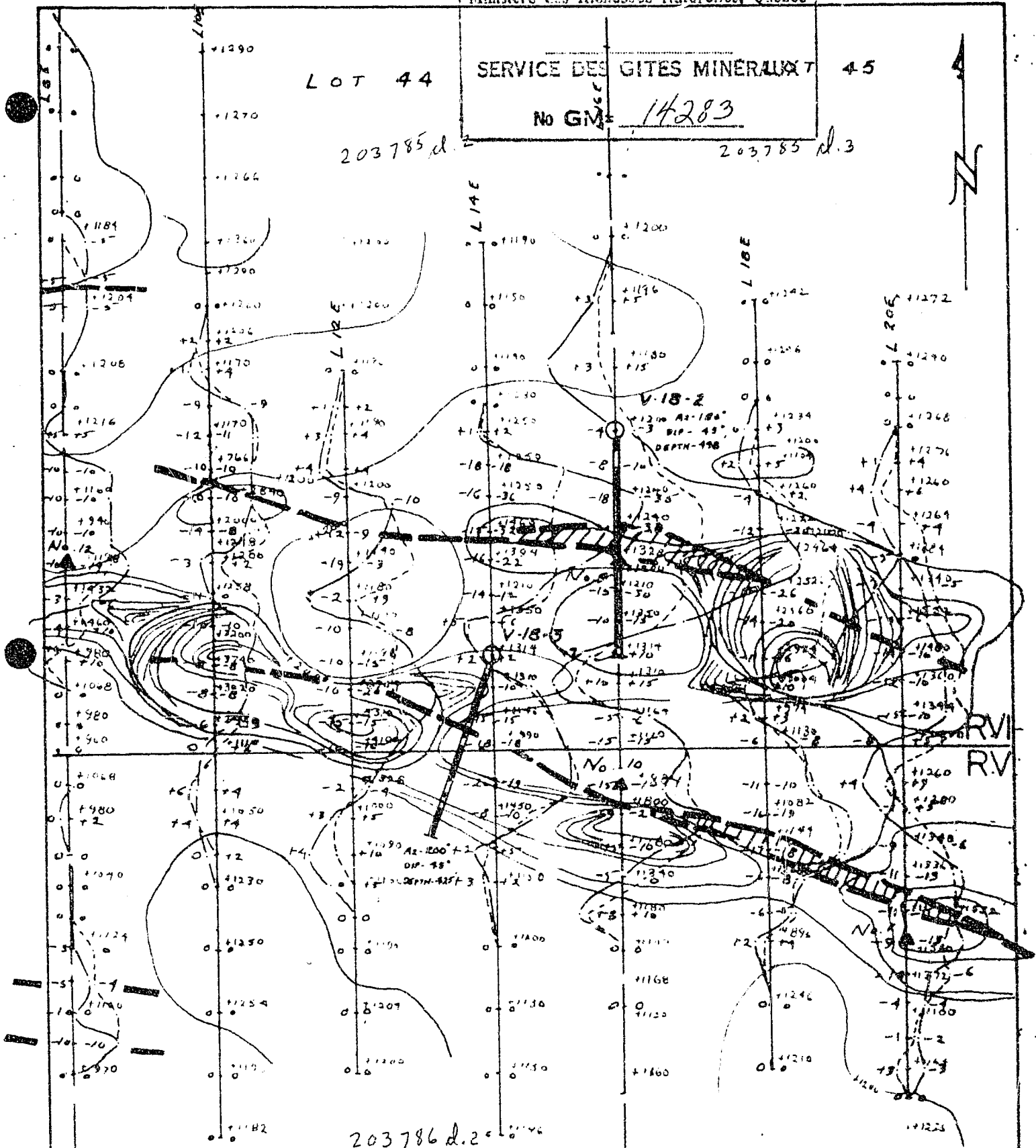
SERVICE DES GITES MINÉRAUX 45

No GM 14283

LOT 44

203785 d.

203785 d.3



203786 d.2

EM CONDUCTOR  
EM IN PLACE OUT OF RANGE  
MAG.

PUBLIC

DATE JAN. 24	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 300'
DRAWN BY <i>[Signature]</i>	LOCATION of DATA V-18-2 & V-18-3 VILLEMONTEL TWP. LOT 44, RANGE III	DWG. No. 11

PUBLIC

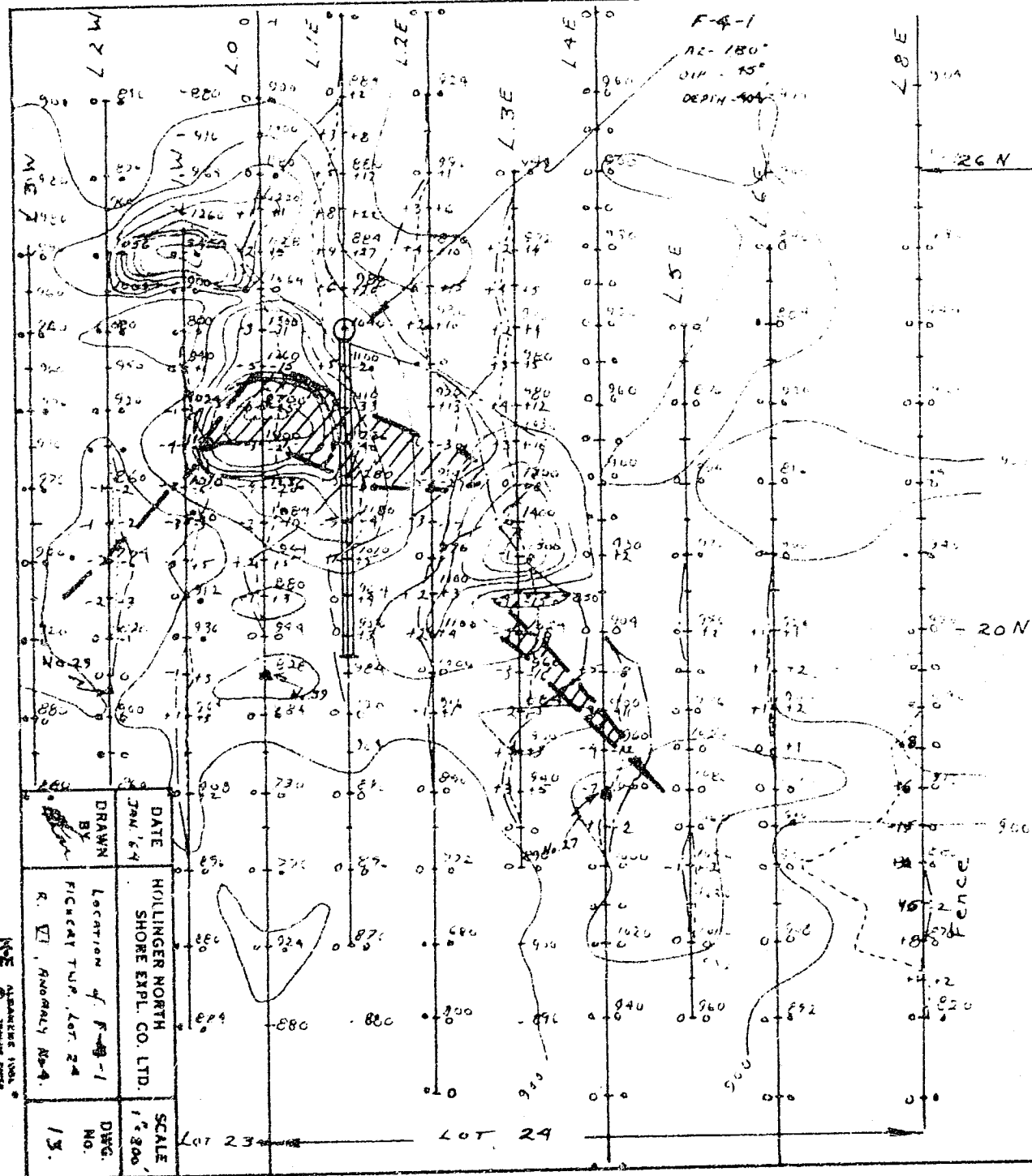
NO GM- 14283

Ministère des Richesses Naturelles, Québec

SERVICE DES CITES MINÉRAUX



- EM CONDUCTOR
- EM - IN PHASE
- EM - OUT OF PHASE
- MAGNETICS

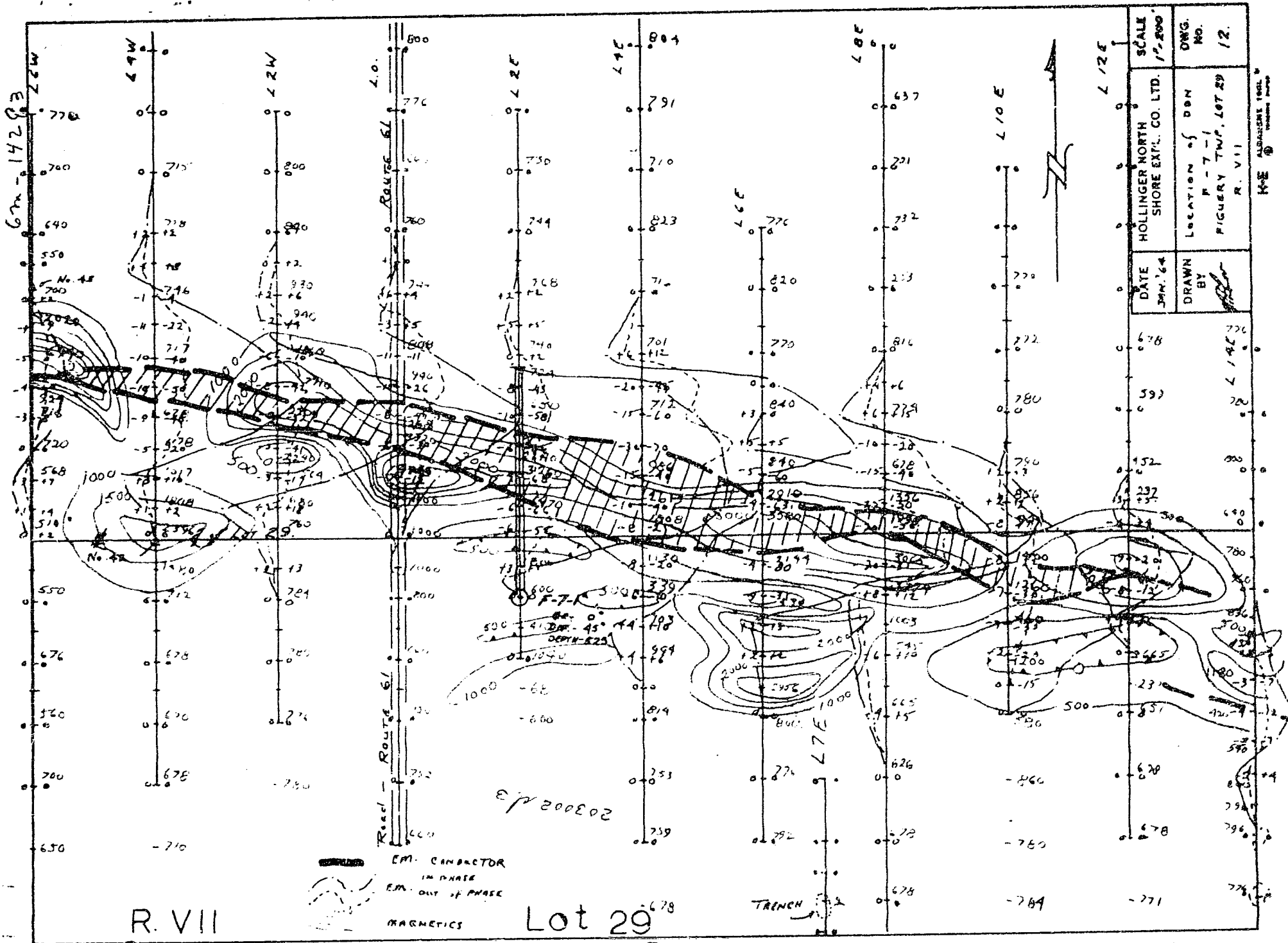


F-4-1  
AZ - 180°  
DIP - 15°  
DEPTH - 400'

DWG. NO. 15.	SCALE 1" = 300'	DATE JAN. 64	DRAWN BY [Signature]
HOLLINGER NORTH SHORE EXPL. CO. LTD.		Location of F-4-1	
R. VI, Anomaly No. 4.		FIGURE TURN, LOT 24	

M&E ALBERTA 1964

LOT 25



DATE JUN. 64	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 200'
DRAWN BY <i>[Signature]</i>	Location of DBM P. 7-1 FIGURY TWP. LOT 29 R. VII	DRWG. NO. 12

M-E ALDRIDGE TECH. INC. ENGINEERS

6m-14293

E 203002

R. VII

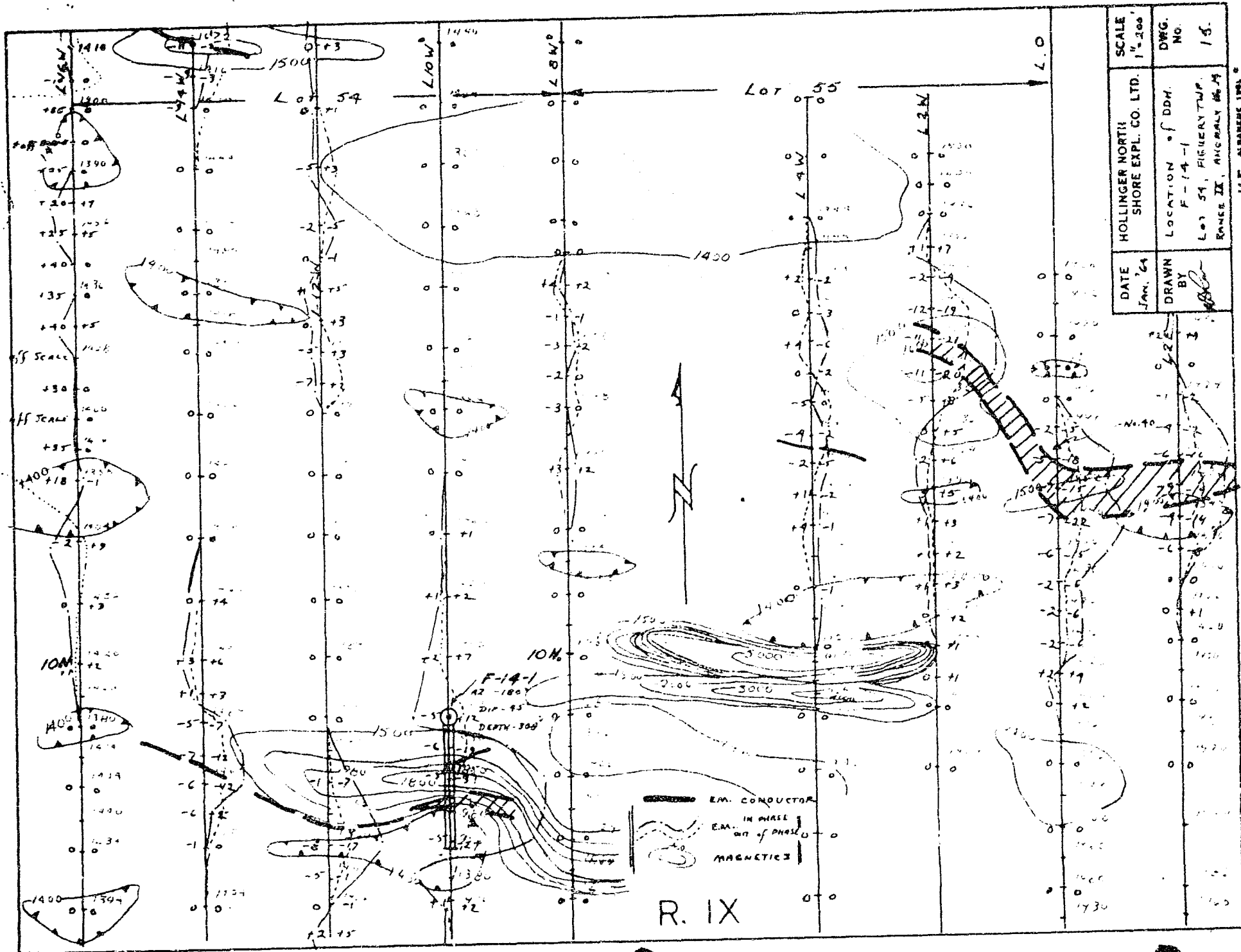
Lot 29

EM. CONDUCTOR  
IN PHASE  
EM. OUT OF PHASE  
MAGNETICS

TRENCH

-784

-771



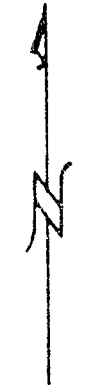
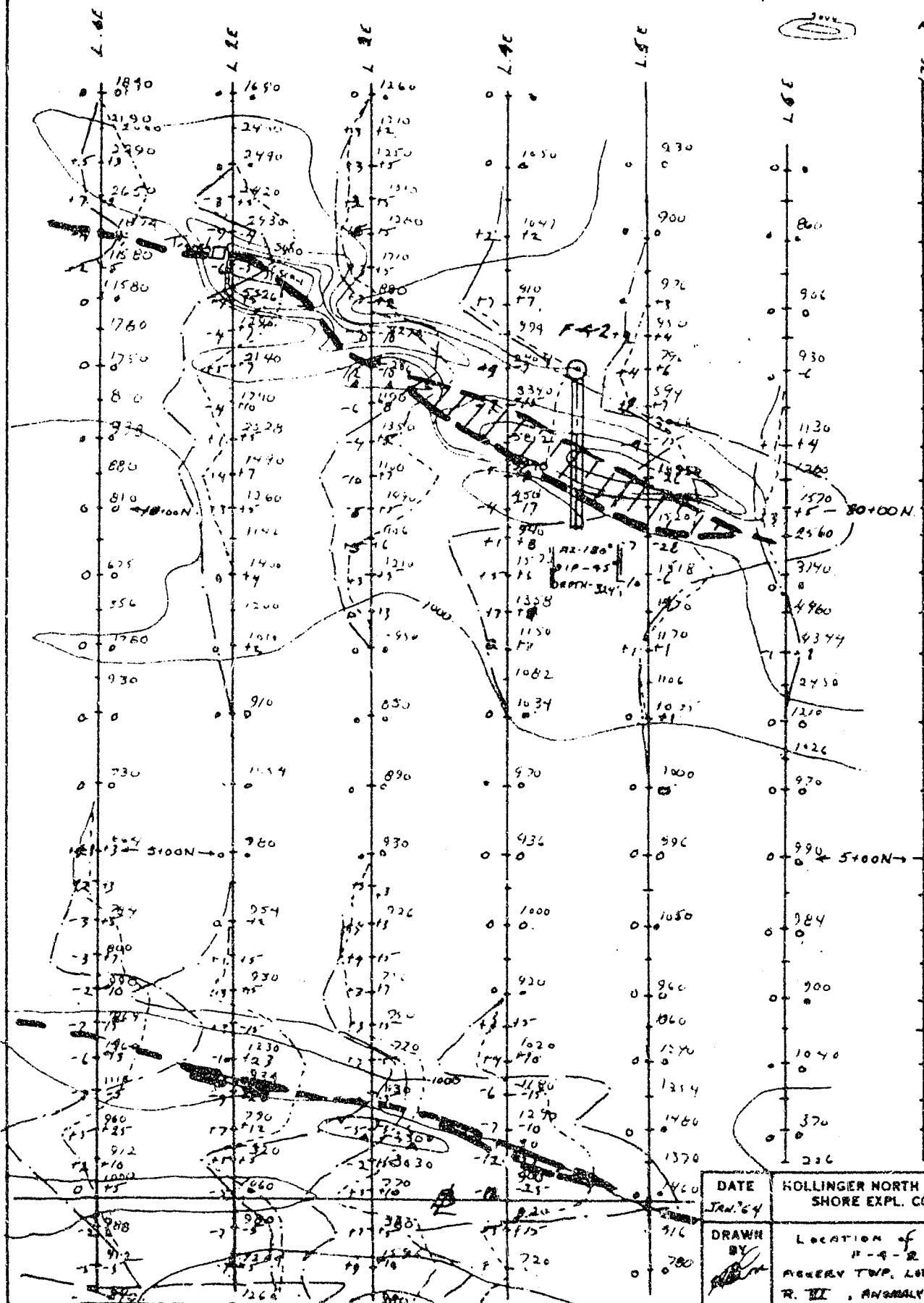
DATE	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE
JAN '64		1" = 100'
DRAWN BY	LOCATION of DDH.	DWG. NO.
<i>[Signature]</i>	F-14-1 Lot 54, FIGURE 17, RANGE II, ANCHORAGE 66.75	15.

H-E ALBANY, N.Y. 12205

LOT 25.

IN PHASE  
E.M. OUT OF PHASE

MAGNETICS.



R.VI

PUBLIC

DATE JAN. 64	KOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 100'
DRAWN BY DAN	LOCATION of DAN 11-4-2 AGERY TWP. LOT 25 R. III, ANGLAIS 64 CO.	DWG. NO. 16.



APPENDIX III

DIAMOND DRILL HOLE SECTION PLANS  
(1" = 50)





551005

549005

551005

521005

511005

V-18-3

Basic Volcanics

Basic Volcanics

OVERBURDEN

Tuff

C.	N.	Z.	S.	Ni	W.	As	Mo	Co	Fe	Other
Tr	0.009	-	-	Ni	Tr	120	1165			
Tr	0.004	Ni	-	Ni	Tr	100	1166			
004	0.007	Ni	-	Ni	Tr	25	1167			
				Ni	Tr	100	1168			

ODH: V 18-3

Location: L14100E  
51150 S

AZ: 200°

DIP: 45°-39°

DEPTH: 425'

**PUBLIC**

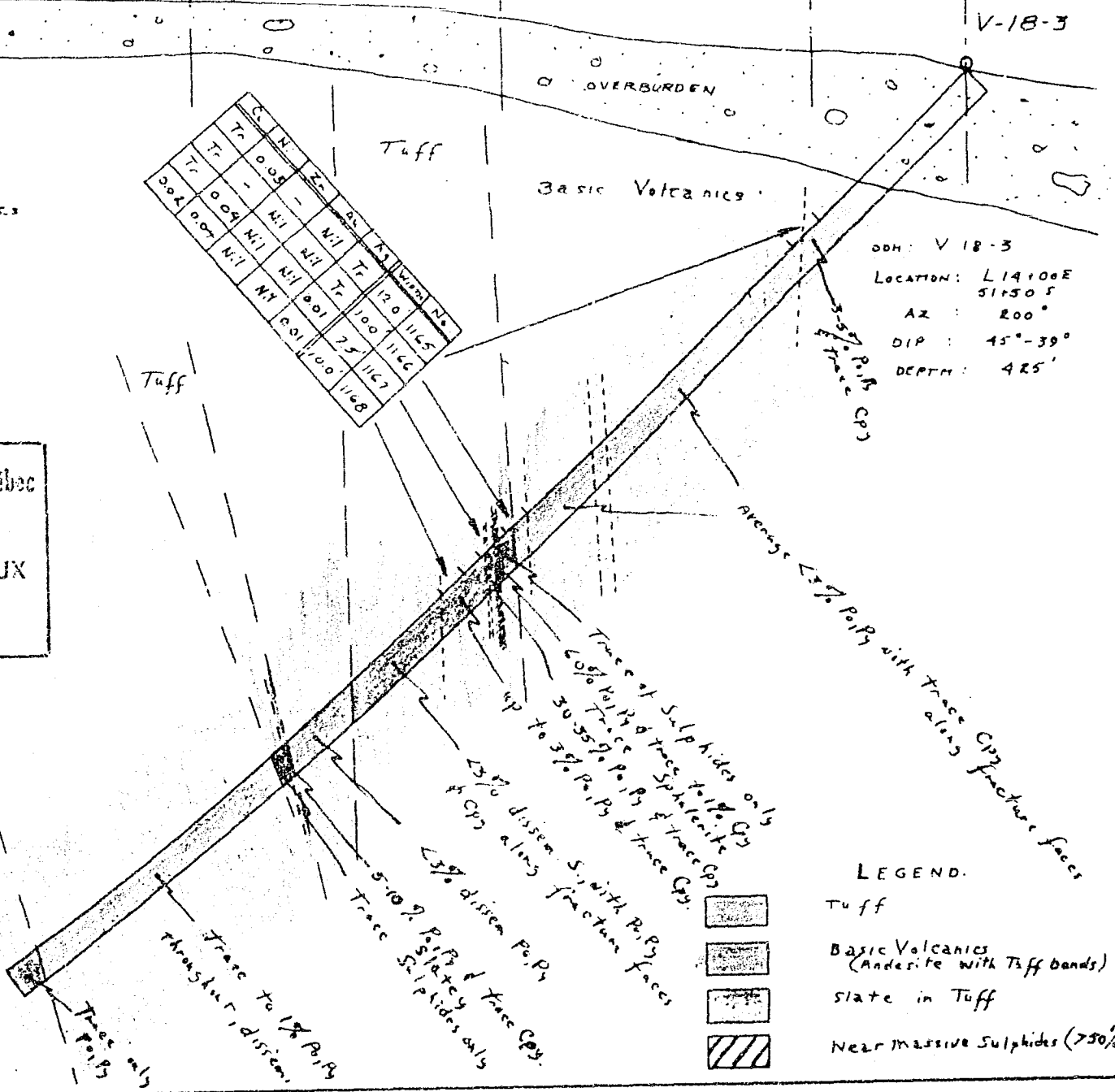
Ministère des Richesses Naturelles, Québec

SERVICE DES CITES MINÉRAUX

No GM- 14283

DATE	Nov. 1968	SCALE	1" = 50'
DRAWN BY	HOLLINGER NORTH SHORE EXPL. CO. LTD.	DWG. NO.	R1
V18-3 - SECTION ANOMALY #118 WILMONTFEL TWP. LOT 45, RANGE VI			

M-E ALBERT 1968



LEGEND.

- Tuff
- Basic Volcanics (Andersite with Tuff bands)
- slate in Tuff
- Near massive Sulphides (>50%)

DDM: F-4-1

LOCATION: LINE 100E, 24100N.

AZIMUTH: 180°

DIP: 45° - 40°

21.00N




22.00N

23.00N

OVERBURDEN

C <sub>u</sub>	Ni	Zn	As	Ag	Width	No.
T <sub>r</sub>	-	-	T <sub>r</sub>	T <sub>r</sub>	11.5'	1181
T <sub>r</sub>	-	-	Ni	T <sub>r</sub>	10.0'	1182
T <sub>r</sub>	-	Ni	Ni	T <sub>r</sub>	9.2'	1183
T <sub>r</sub>	-	-	Ni	T <sub>r</sub>	10.0'	1184
T <sub>r</sub>	-	-	Ni	T <sub>r</sub>	10.0'	1185
T <sub>r</sub>	-	-	Ni	T <sub>r</sub>	9.5'	1186
T <sub>r</sub>	T <sub>r</sub>	-	Ni	T <sub>r</sub>	9.5'	1187
T <sub>r</sub>	-	Ni	Ni	T <sub>r</sub>	9.5'	1188
T <sub>r</sub>	-	-	Ni	T <sub>r</sub>	10.0'	1189

DEPTH  
404.0'

- LEGEND:
-  DACITE
  -  AMPHIBOLITE
  -  INTRUSIVE ??

PUBLIC

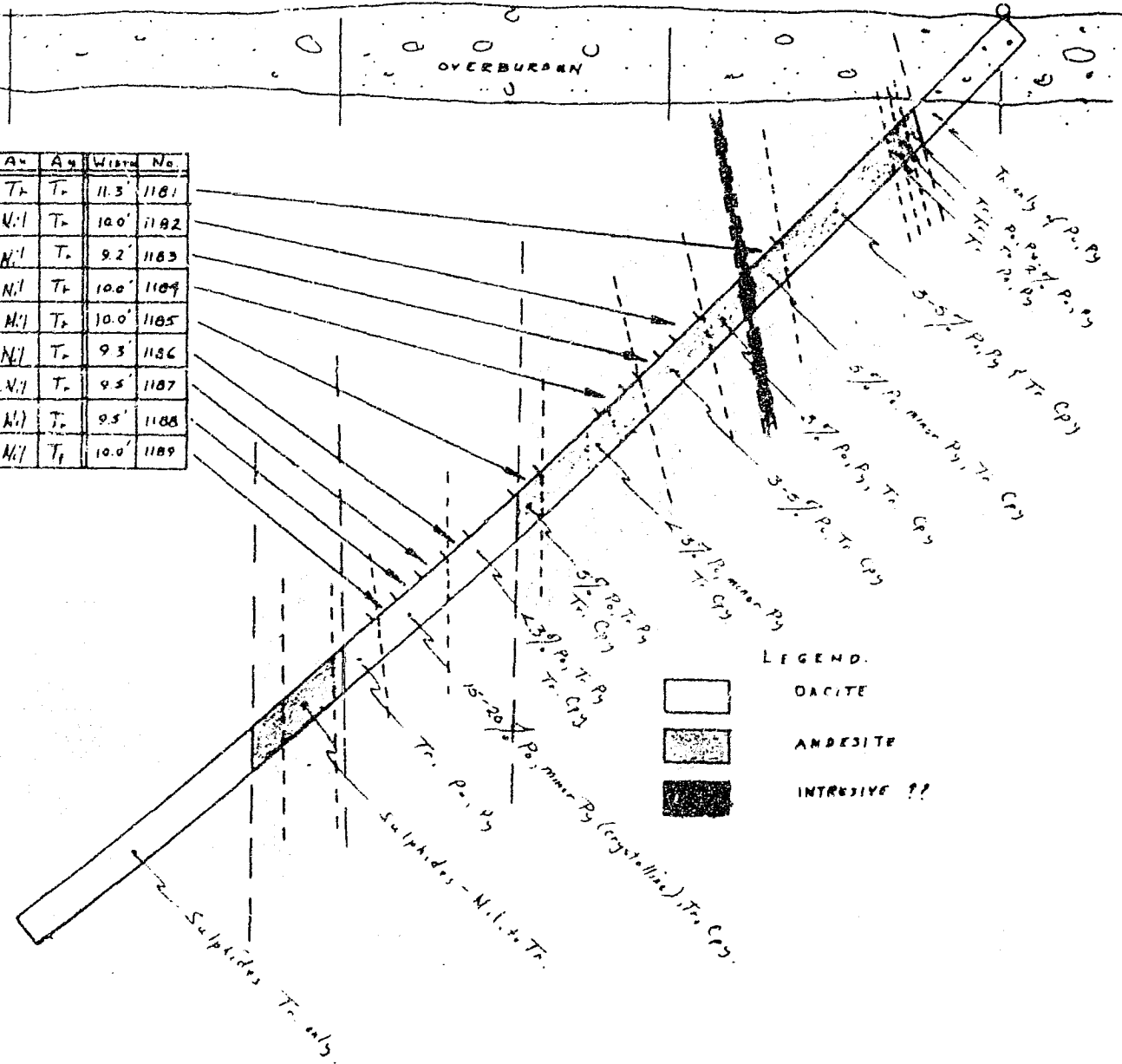
Ministère des Richesses Naturelles, Québec

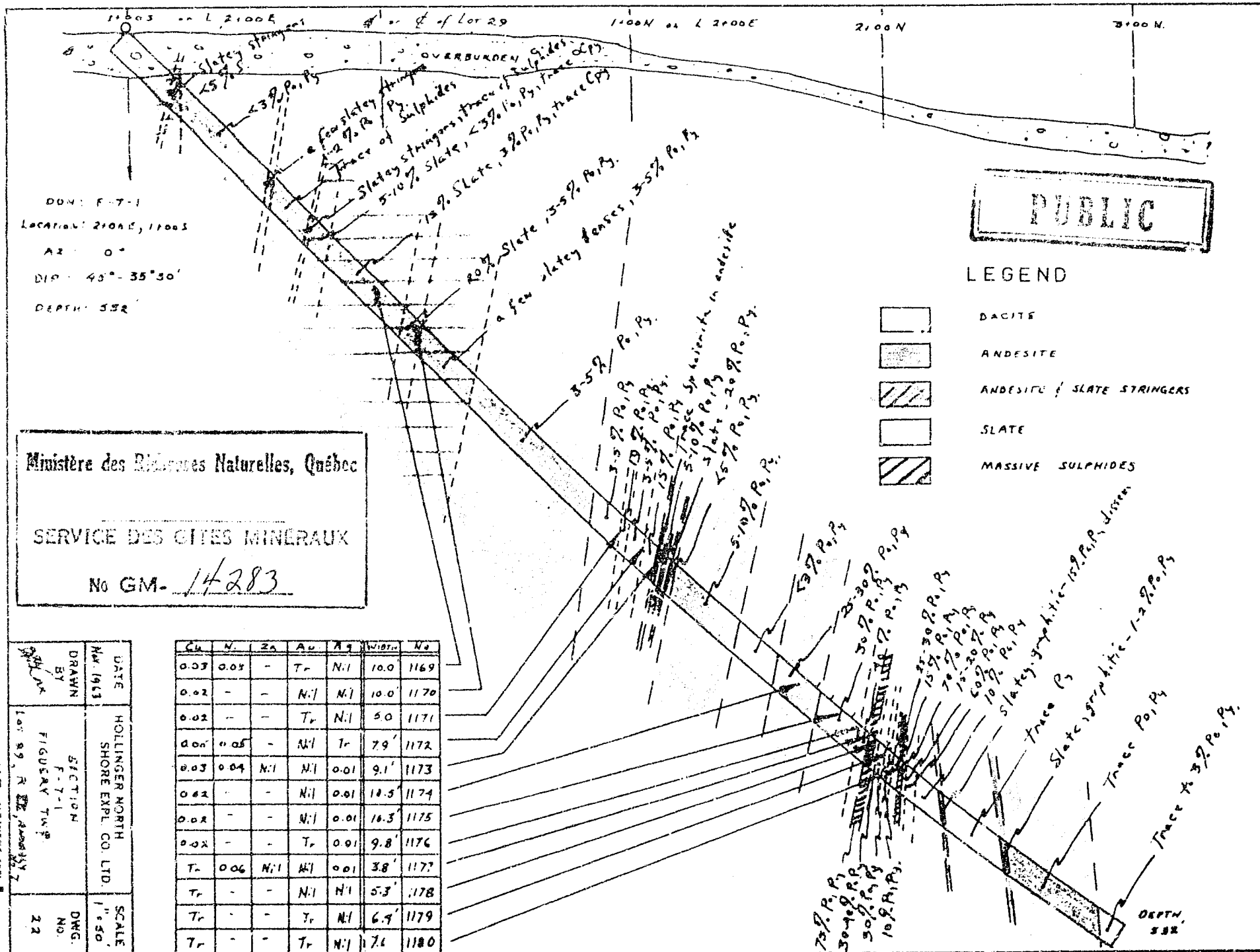
SERVICE DES CITES MINIERAIRE

No GM. 14283

DATE REV. 1967	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 50'
DRAWN BY R. L. G.	F-4-1 SECTION FIGURE 770 P.	DWG. NO. 28
Let 29, Page 27, Annex 4		

MADE IN CANADA





DOME F-7-1  
 LOCATION: 2100E, 1100S  
 AZ: 0°  
 DIP: 45°-35°30'  
 DEPTH: 552'

PUBLIC

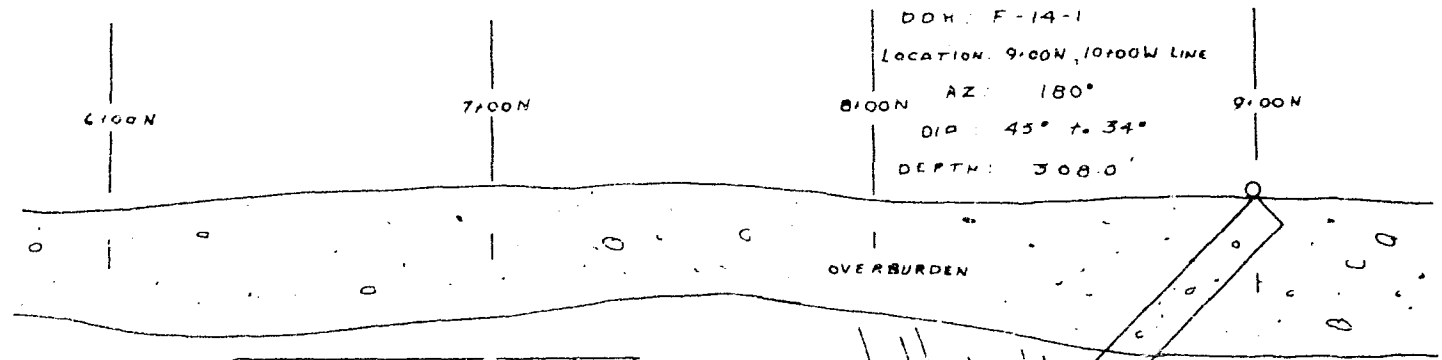
LEGEND

- DACITE
- ANDESITE
- ANDESITE / SLATE STRINGERS
- SLATE
- MASSIVE SULPHIDES

Ministère des Ressources Naturelles, Québec  
 SERVICE DES CITES MINÉRAUX  
 No GM- 14283

DATE	MAY 1963	DRAWN BY	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE	1" = 50'
SECTION	F-7-1	BY	FIGUEROA TWP	DWG. NO.	22
Lot 29, R. 22, Municipality of... K-E ALBERTA 1961					

Cu	Ni	Zn	Au	Ag	Wt. in	No
0.03	0.03	-	Tr	N:1	10.0	1169
0.02	-	-	N:1	N:1	10.0	1170
0.02	-	-	Tr	N:1	5.0	1171
0.06	0.05	-	N:1	Tr	7.9	1172
0.03	0.04	N:1	N:1	0.01	9.1	1173
0.02	-	-	N:1	0.01	10.5	1174
0.02	-	-	N:1	0.01	16.3	1175
0.02	-	-	Tr	0.01	9.8	1176
Tr	0.06	N:1	N:1	0.01	3.8	1177
Tr	-	-	N:1	N:1	5.3	1178
Tr	-	-	Tr	N:1	6.4	1179
Tr	-	-	Tr	N:1	7.1	1180



DDM: F-14-1  
 LOCATION: 9°00'N, 10°00'W LINE  
 AZ: 180°  
 DIP: 45° ± 34°  
 DEPTH: 308.0'

6°00'N

7°00'N

8°00'N

9°00'N

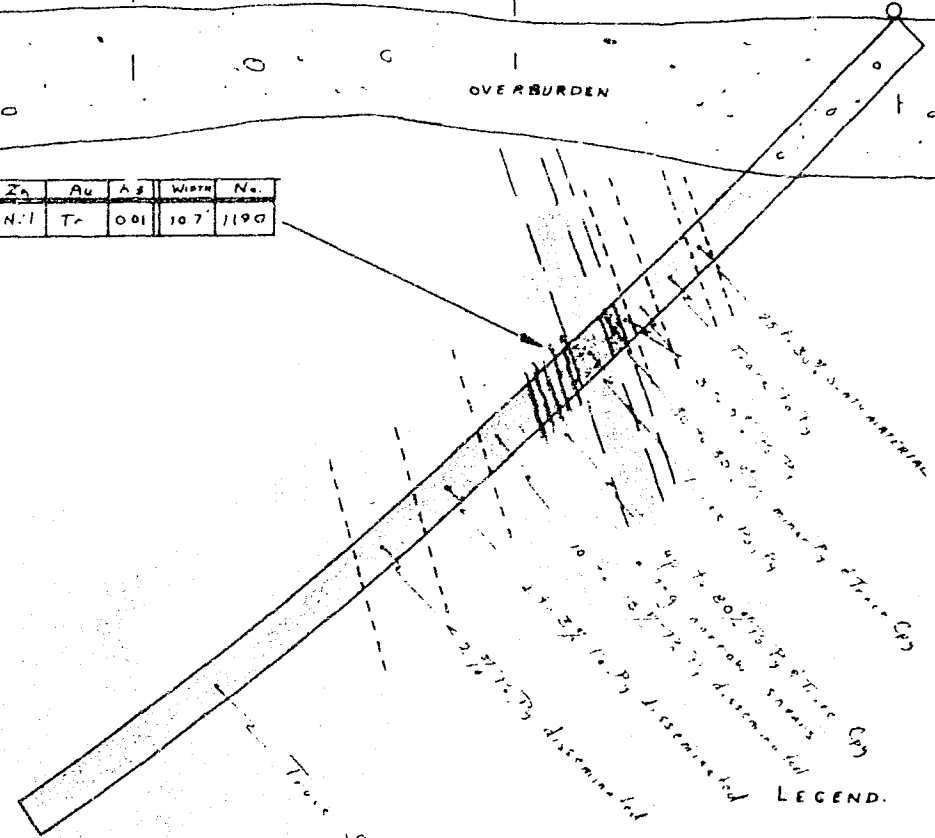
OVERBURDEN

Cu	Ni	Zn	Au	Ag	WASH	No.
Tr	Tr	N.I	Tr	001	107	1190

**PUBLIC**

Ministère des Ressources Naturelles, Québec  
 SERVICE DES CITES MINÉRAUX  
 No GM- 14283

DEPTH  
 308



- LEGEND.
- Tuff
  - Intermediate to Tuffaceous Volc.
  - Andesite (Felspar PORPHYRY)
  - SLATE - mineralized & graphitic
  - NEAR-MASSIVE A, B along narrow shears

DATE	HOLLINGER NORTH	SCALE
DRAWN BY	SHORE EXPL. CO. LTD.	1" = 20'
BY	F-14-1 SECTION	DWG. NO.
	FIGUREY TWP	25
	LOT 24 TROUSSE II	
	ARRANGÉ 4/19	

H&E ALAMBERT 1984, 0  
 © TROUSSE 1984

9+00 N

10+00 N

11+00 N

12+00 N

DDH : F-4-2

LOCATION: L.4+50E.12+00N

AZ : 180°

DIP : 45° - 41° 45'

DEPTH: 324.0'

Qz	Ni	Zn	Pb	Al	Ag	Width	No.
-	-	Nil	-	Nil	T <sub>r</sub>	3.8	1191
T <sub>r</sub>	-	Nil	-	Nil	Nil	6.4	1192
0.03	-	Nil	Nil	T <sub>r</sub>	T <sub>r</sub>	4.2	1195
0.05	-	-	Nil	Nil	T <sub>r</sub>	2.8	1194
0.05	-	-	-	T <sub>r</sub>	T <sub>r</sub>	5.6	1195
0.02	-	-	-	T <sub>r</sub>	T <sub>r</sub>	3.4	1196
T <sub>r</sub>	Nil	Nil	-	Nil	-	3.7	1197
0.02	-	-	-	T <sub>r</sub>	T <sub>r</sub>	6.4	1198

OVERBURDEN

15-20% P<sub>2</sub>O<sub>5</sub> Avg

Trans Cr. &amp; Sphalerite

Trans. P<sub>2</sub>O<sub>5</sub> SpgAvg. 3-5% P<sub>2</sub>O<sub>5</sub> dissem.35-40% P<sub>2</sub>O<sub>5</sub> in P<sub>2</sub>O<sub>5</sub>30-60% P<sub>2</sub>O<sub>5</sub> in P<sub>2</sub>O<sub>5</sub>

15-20% Magnetite Trans. Galena

lenses & stringers of P<sub>2</sub>O<sub>5</sub> in P<sub>2</sub>O<sub>5</sub>

transverse stringers & lenses  
up to 10% P<sub>2</sub>O<sub>5</sub> dissem.  
Avg 3-5% magnetite

DEPTH  
324.0'

DATE 3/1/64	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 50'
DRAWN BY R. W. M. / J. W. M.	F-4-2 SECTION FIGUERY TR. / J. W. M.	DWG. NO. 25.
Lot 25, R. W. M. / J. W. M.		

PUBLIC

Ministère des Richesses Naturelles, Québec

SERVICE DES CITES MINÉRAUX

No GM-14283

LEGEND

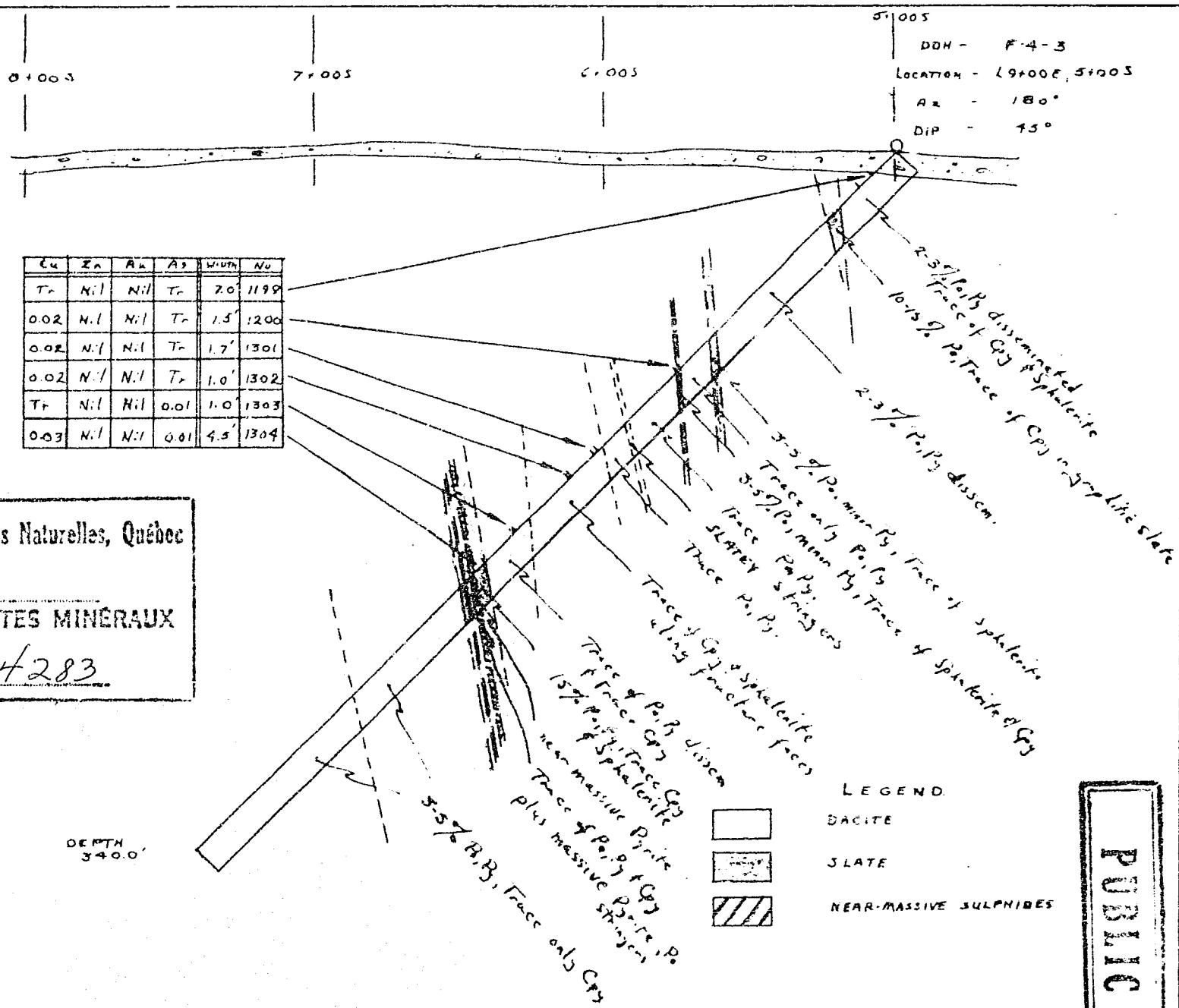


Dacite

Dacite w Tuffaceous Veins.

Basic Intrusive

> 50% P<sub>2</sub>O<sub>5</sub>, Py f.m.



5+005  
 DDH - F-4-3  
 LOCATION - L9400E, 5+005  
 Az - 180°  
 Dip - 15°

Cu	Zn	Au	Ag	Width	No
Tr	Nil	Nil	Tr	2.0'	1199
0.02	Nil	Nil	Tr	1.5'	1200
0.02	Nil	Nil	Tr	1.7'	1301
0.02	Nil	Nil	Tr	1.0'	1302
Tr	Nil	Nil	0.01	1.0'	1303
0.03	Nil	Nil	0.01	4.5'	1304

Ministère des Richesses Naturelles, Québec  
 SERVICE DES GITES MINÉRAUX  
 No GM- 14283

DATE 6/1/64	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE 1" = 50'
DRAWN BY [Signature]	F-4-3 SECTION FIGUERY TWP.	DWG. NO. 27
Lot 26, R. II, [Signature]		

DEPTH  
5.0'

LEGEND  
 [Symbol] DACITE  
 [Symbol] SLATE  
 [Symbol] NEAR-MASSIVE SULPHIDES

PUBLIC

APPENDIX IV

TABULATED ASSAY RESULTS

Assay Results

<u>Hole No.</u>	<u>Sample No.</u>	<u>Width</u>	<u>Cu.</u>	<u>Ni.</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Au.</u>	<u>Ag.</u>	
I-3-1 <i>SEE 6M-18625 LANDRIENNE</i>	1106	10.0'	Tr.	-	-	Nil	Nil	Tr.	
	1107	2.9'	"	-	-	"	Tr.	"	
	1108	9.0'	"	-	-	"	Nil	"	
	1109	7.5'	0.02	-	-	"	0.005	0.03	
	1110	10.5'	Tr.	-	-	"	Nil	Tr.	
	1111	6.3'	Tr.	-	-	"	"	"	
	1112	5.0'	"	-	-	"	"	"	
	1113	10.9'	"	-	-	"	Tr.	"	
	1114	4.8'	"	-	-	"	0.005	0.01	
	1115	5.5'	0.02	-	-	"	Tr.	Tr.	
	V-18-1	1116	8.0'	0.02	-	-	"	"	Nil
		1117	8.0'	-	-	-	Nil	Nil	"
		1118	5.0'	-	-	-	"	"	Tr.
		1119	2.5'	-	-	-	"	Tr.	Nil
		1120	10.0'	Tr.	-	-	"	Nil	Tr.
1121		7.1'	"	Nil	-	"	Tr.	"	
1122		10.4'	Tr.	-	-	"	Nil	Nil	
1123		7.0'	"	-	-	"	Tr.	"	
1124		7.0'	"	-	-	"	"	"	
1125		3.5'	"	-	-	"	Nil	"	
1126		7.8'	"	Tr.	-	"	"	Tr.	
1127		4.7'	"	"	-	"	"	Nil	
1128		1.3'	"	-	-	"	"	"	
1129		10.0'	"	-	-	"	"	"	
1130		9.2'	"	-	-	"	"	"	
1131		10.0'	"	-	-	"	"	Tr.	
1132		10.0'	"	-	-	"	Tr.	"	
1133		10.0'	"	Tr.	-	"	"	Nil	
1134		10.0'	"	-	-	"	"	"	
1135		6.0'	"	Nil	-	"	"	"	
1136		9.5'	"	Nil	-	"	"	"	
1137		6.0'	"	Tr.	-	"	Nil	Tr.	
1138		10.0'	"	"	-	"	Nil	Nil	
1139		10.0'	"	-	-	"	"	"	
1140		10.0'	"	Tr.	-	"	"	Tr.	
1141		10.0'	"	-	-	"	"	"	
1142		10.0'	Tr.	-	-	"	Nil	Tr.	
1143		10.0'	Tr.	-	-	"	Nil	Tr.	
1144		10.0'	Tr.	-	-	"	Nil	Nil	
1145		10.0'	Tr.	-	-	"	Nil	Nil	
1146		10.0'	Tr.	-	-	"	Nil	Tr.	
1147		10.0'	Tr.	-	-	"	Nil	Nil	
1148		10.0'	Tr.	Tr.	-	"	Nil	Nil	

Assay Results (Cont'd)

<u>Hole No.</u>	<u>Sample#</u>	<u>From</u>	<u>To</u>	<u>Width</u>	<u>Cu.</u>	<u>Ni.</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Au.</u>	<u>Ag.</u>
V-18-2	1149	105.0'	112.5'	7.5'	0.02	-	-	Nil	Nil	0.01
	1150	114.0	117.5	3.5'	Tr.	-	-	Nil	Nil	0.01
	1151	117.5	123.0	5.5'	Tr.	-	-	Nil	Nil	Tr.
	1152	123.0	133.0	10.0'	Tr.	-	-	Nil	Nil	Nil
	1153	160.0	168.5	8.5'	Tr.	-	-	Nil	Nil	0.01
	1154	168.5	171.1	2.6'	Tr.	0.02	-	-	Nil	0.02
	1155	171.1	174.5	3.4'	"	Tr.	-	Nil	Nil	Tr.
	1156	174.5	184.5	10.0'	Tr.	-	-	Nil	Nil	0.01
	1157	187.3	193.0	5.3'	0.02	-	-	Nil	Nil	Tr.
	1158	201.1	212.2	11.1'	Tr.	-	-	-	Nil	Tr.
	1159	216.8	223.9	7.1'	0.02	-	-	-	Nil	Tr.
	1160	263.8	273.2	9.4'	Tr.	-	-	-	Nil	Tr.
	1161	373.5	380.0	6.5'	Tr.	-	-	-	Nil	0.01
	1162	408.5	412.5	4.0'	Nil	-	-	Nil	Tr.	Nil
	1163	415.8	425.4	9.6'	Tr.	Tr.	-	-	Nil	0.01
	1164	428.5	438.4	9.9'	Tr.	0.02	-	-	Nil	Tr.
V-18-3	1165	68.0	80.0	12.0'	Tr.	0.03	-	-	Nil	Tr.
	1166	201.0'	211.0	10.0'	Tr.	-	-	Nil	Nil	Tr.
	1167	214.5	222.0	7.5'	Tr.	0.04	-	Nil	Nil	0.01
	1168	229.0	239.0	10.0'	0.02	0.04	-	Nil	Nil	0.01
F-7-1	1169	132.0	142.0	10.0'	0.03	0.03	-	-	Tr.	Nil
	1170	155.0	165.0	10.0'	0.02	-	-	-	Nil	Nil
	1171	274.5	279.5	5.0'	0.02	-	-	-	Tr.	Nil
	1172	285.5	293.4	7.9'	0.05	0.05	-	-	Nil	Tr.
	1173	293.4	302.4	9.1'	0.03	0.04	-	Nil	Nil	0.01
	1174	366.0	376.5	10.5'	0.02	-	-	-	Nil	0.01
	1175	383.7	394.0	10.3'	0.02	-	-	-	Nil	0.01
	1176	394.0	403.8	9.8'	0.02	-	-	-	Tr.	0.01
	1177	403.8	407.7	3.8'	Tr.	0.06	-	Nil	Nil	0.01
	1178	407.6	413.0	5.3'	Tr.	-	-	-	Nil	Nil
	1179	413.0	419.4	6.4'	Tr.	-	-	-	Tr.	Nil
1180	419.4	427.0	7.6'	Tr.	-	-	-	Tr.	Nil	
F-4-1	1181	97.5	108.8	11.3'	Tr.	-	-	-	Tr.	Tr.
	1182	129.0	139.0	10.0'	Tr.	-	-	-	Nil	Tr.
	1183	145.8	155.0	9.2'	Tr.	-	-	Nil	Nil	Tr.
	1184	165.5	175.5	10.0'	Tr.	-	-	-	Nil	Tr.
	1185	196.0	206.0	10.0'	Tr.	-	-	-	Nil	Tr.
	1186	224.7	234.0	9.3'	Tr.	-	-	-	Nil	Tr.
	1187	234.0	243.5	9.5'	Tr.	Tr.	-	-	Nil	Tr.
	1188	243.5	253.0	9.5'	Tr.	-	-	Nil	Nil	Tr.
	1189	253.0	263.0	10.0	Tr.	-	-	-	Nil	Tr.

Assay Results (cont'd)

<u>Hole No.</u>	<u>Sample#</u>	<u>From</u>	<u>To</u>	<u>Width</u>	<u>Cu.</u>	<u>Ni.</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Au.</u>	<u>Ag.</u>
F-14-1	1190	121.0	131.7	10.7	Tr.	Tr.	-	Nil	Tr.	0.01
F-4-2	1191	52.0	55.8	3.8'	-	-	-	Nil	Nil	Tr.
	1192	126.4	132.8	6.4'	Tr.	-	-	Nil	Nil	Nil
	1193	132.8	137.0	4.2'	0.03	-	Nil	Nil	Tr.	Tr.
	1194	137.0	139.8	2.8'	0.05	-	Nil	-	Nil	Tr.
	1195	139.8	145.4	5.6'	0.03	-	-	-	Tr.	Tr.
	1196	157.4	160.8	3.4'	0.02	-	-	-	Tr.	Tr.
	1197	229.3	233.0	3.7	Tr.	Nil	-	Nil	Nil	-
	1198	290.3	296.7	6.4	0.02	-	-	-	Tr.	Tr.
F-4-3	1199	11.3	18.3	7.0'	Tr.	-	-	Nil	Nil	Tr.
	1200	105.3	106.6	1.3'	0.02	-	-	Nil	Nil	Tr.
	1301	145.5	147.0	1.5'	0.02	-	-	Nil	Nil	Tr.
	1302	157.3	159.0	1.7'	0.02	-	-	Nil	Nil	Tr.
	1303	185.0	186.0	1.0'	Tr.	-	-	Nil	Nil	0.01
	1304	200.8	205.3	4.5'	0.03	-	-	Nil	Nil	0.01

on line 1+00E

at 24+00E

180°

45° - 40°

FIGUERY TWP

Lot. 24, Range VI, Anomaly #4

F-4-1 (Page 1)

Nov. 11/63

Nov. 14/63

404.0'

H. D. Love

0	35.0'	Overburden
35.0'	39.0'	Dacite - medium green-gray in colour, somewhat glassy, spotted with quartz eyes and feldspar phenocrysts in a f.g. groundmass - only a trace of Py, Po.
39.0'	42.5'	Andesite-f.g., medium green in colour, a few feldspar phenocrysts (minute) and a few carbonate stringers at 60° to c.a., parallel to bedding, although quite massive here. Only a trace of Po, Py.
42.5'	45.8'	Andesite with Dacite bands, i.e. numerous felsic zones (> 60% feldspar), hard, craggy in colour, in a darker (lesser feldspar) andesite. A few carbonate stringers at 60° to c.a. A trace to 2% Po, lesser Py.
45.8'	50.5'	Andesite, quite massive, with a few quartz and/or feldspar eyes or phenocrysts. Only trace of Po.
50.0'	100.5'	As above, but a little lighter in colour, i.e. light to med. gray-green in colour with a

Remarks

Spec. @ 38.0'

Spec. @ 41.5'

Specimen @ 52.5'

PUBLIC

Ministère des Richesses Naturelles, Québec

SERVICE DES GITES MINÉRAUX

No GM- 14283 gx

on line 1400X

at 2400N

130°  
45° - 40°

FIGUERY TWP

lot 24, Range VI, Anomaly #4

F-4-1 (Page 2)

Nov. 11/63

Nov. 14/63

404.0'

H.D. Love

Depth	Interval	Description	Remarks
50.0'	103.5'	cryptocrystalline to glassy groundmass and >50% felsic minerals, and is somewhat glassy in places-banded faintly at 50-60° to core axis with banding at <50° in a few places. -52.3'-52.7' - about 80% felsic minerals, creamy in colour - after 56.0' from 2-5% Po, trace Py & trace Cpy. (most Po pods show some Cpy) as pods & lenses, and disseminated slips.	Specimen @ 52.5'
	79.0-81.5'	darker green, more massive - Andesite - but still faintly porphyritic with qtz eyes & feldspar phenocrysts (minute) - numerous carbonate stringers & lenses throughout.	Specimen @ 78.3'
	89.0-91.5'	up to 5% Po, minor Py and a trace of Cpy as lenses, pods, & finely dissem. slips.	Specimen @ 89.0'
	97.5'-108.8'		Specimen @ 99.0'
103.5'	113.0'	Approx - questionable intrusive? - probably a small band or zone of more basic Volcanics-sheared and brecciated - med. to dark green in colour, altered, chloritic, banded at 55-60° to c.a.; much carbonatization, particularly along brecciated portions.	
113.0'	133.0'	Andesite trachytic to hyalopilitic texture in groundmass (somewhat	



on line 14008  
at 24400N

180°  
45° - 40°

FIGUERY TWP

Lot 24, Range VI, Anomaly #4

F-4-1 (Page 4)

Nov. 11/53

Nov. 14/63

404'

H. D. Love

					Remarks
155.0'	205.0'	to banding @ 45° to 50° - some- (continued) what brecciated from 196.3-197.5'			
206.0'	277.0'	Dacite-lighter in colour, more felsic than the above with an increase to 70 or 75% feldspar as phenocrysts, with a few qtz eyes, porphyritic, with a glassy groundmass. Flow banding is from 50-55° to c.a. with a few quartz and carbonate stringers - from 215.8-216.1' - several qtz veins parallel to banding, with a little Po associated. Others from 219.9'- 220.0'; 220.1-220.4' (trace of Po); and at 223.0' - 1/2" veinlet. Carbonate fractures occur @ 60° to c.a. in reverse direction to flow banding. A few qtz-carb. stringers parallel banding @ 55° to c.a. - up to 225' - less 1186 than 3% Po, dissem. & as pods & lenses, but after 235' - up to 15 1187 or 20% Po as pods, lenses, stringers & dissem slips; minor Py (cry- 1188 stalline) & trace only of Crv 1189 - up to 253.0', from 253.0-277.0' only a trace of sulphides-phenocrysts are much smaller becoming more andesitic in bands - 253.0-277.0' (cont'd) with numerous carbonate stringers, some at 15° to core axis.	224.7' 234.0'	9.3'	Specimen @ 227.0'
			234.0' 243.5'	9.5'	" @ 253.5'
			243.5' 253.0'	9.5'	
			253.0' 263.0'	10.0'	Specimen @ 275.0'

as line 1400E  
 24-008  
 180°  
 45° - 40°

24-008 2411 1472

FIGUERY TWP

lot 24, Range VI, Anomaly #4

Panel (Page 5)  
 Nov. 11/63  
 Nov. 14/63  
 404'  
 H. D. Love

Depth	Remarks	Specimen
206.0' (continued)	from 276.8' - a quartz vein @ 50° to c.a., 1/2" wide - no sulph.	
277.0'	Basic Volcanics - m.g., dark green in colour, a few feldspar phenocrysts, probably Basalt; a few carbonate stringers @ 45-50° to c.a., otherwise quite massive-Sulphides-Nil	Specimen @ 277.7'
280.0'	Andesite-lighter than above, porphyritic, with a hypopilitic groundmass, with a few dacite bands; a few carbonate stringers throughout; only a trace of Sulphides; somewhat brecciated @ 192.0-192.5' along a carbonated fracture @ 15° to C.A.	Specimen @ 290.0'
301.0'	Basic Volcanics or Andesite-a little darker than the above, with a brownish tinge (probably due to Biotite); a few quartz & carbonate veinlets (barran) @ 30° to c.a., plus numerous chloritized fractures at various angles to c.a. (somewhat shattered in appearance) with carbonate associated.	Specimen @ 302.0'
310.7'-311.0'	- a brecciated carb. fracture zone- sulph. Nil	Specimen @ 309.5'
313.0'	Dacite-lighter in colour than	

on line 1+00Z  
at 24+00Z

180°  
45° - 40°

FIGUERY TWP

Lot 24, Range VI, Anomaly #4

P-4-1 (Page 6)

Nov. 11/63

Nov. 14/63

404.0'

H. D. Love

Fracks

3.0' 404.0' the above, with an increase in  
(continued) feldspar, occurring as larger  
phenocrysts throughout - a  
trachytic to hyalopilitic ground-  
mass - flow banded @ 50° to c.a.  
- a few carbonate stringers @  
60° to core axis in reverse  
direction to banding.

322.0' - 323.5' - a long carbonate  
stringer - 1/2" wide - at 15° to  
c.a., barren.

This zone is not so distinctly  
a dacite as that from 206.0-  
277.0', for some zones approach  
an andesite with lesser pheno-  
crysts, which are sometimes very  
small - only a trace of sulphides  
throughout.

4.0' END OF HOLE

Specimen @ 325.0'

Specimen @ 327.5'

Specimen @ 324.8'

Core Recovery

118.0-129.0-1.0% C.R.

153.5-163.0-1.0% C.R.

303.0-312.5-0.5% C.R.

313.5-324.0-0.4% C.R.

324.0-335.5-0.2% C.R.

Core lost 3.9'

i.e. 1.05% Core lost

or 98.94% Core Recy'd

Latitude:  $\odot$  12+00N  
 Departure: on L 4+50E  
 Elevation: Az. - 180°  
 Azimuth: Dip 45° - 41° 45' approx. @ 320.0'  
 Dip: \_\_\_\_\_

Property: FIGUERY TWP

Lot. 25, Range VI, Anomaly #4 Ext.

Hole No: F-4-2 (Page 1)  
 Commenced: Dec. 10/63  
 Finished: Dec. 12/63  
 Deptn: 324.0'  
 Logged By: H. D. Love

FROM	TO	Formation	Sample No.	From	To	Assay Results					Width	Remarks	
						Cu	Ni	Zn	Pb	oz. Au			oz. Ag
0	34'	OVERBURDEN										Core Recovery	
34.0'	82.5'	Highly altered, pale creamy to green with patches of reddish (garnets) material along sheared zones; is patchy to porphyritic with quartz and feldspar phenocrysts throughout (Andesite to Dacite) only faintly foliated in a few places @ 40° to c.a.; shearing occurs @ 10° - 15° in reverse direction - Sulphides occur a minute pods & light dissem. throughout - mainly Po but a trace of cpy & sphalerite (particularly around 53.0') - 51.0-52.0' - a darker green zone cutting @ 45° to c.a. much leached, with a gradational upper contact, and a sharp lower contact and a few carbonate stringers @ 40° to c.a. - @ 60.7' a 3/8" Qtz/feldspar veinlet with a trace of cpy & sphalerite - In general the above is quite patchy and crenulated, and from 63.0'-65.0' is highly sheared at 20° to c.a. Sulphide minutely disseminated throughout. - after 65.0' approx. the rock is distinctly more green with only a few reddish garnetiferous zones and gradually becomes coarse grained, more even textured										34-36.0-0.5' lost core 36-43.0-0.2' " " 43-53.0-1.2' " " 78.5-87-0.3' " " 269.5-279.5-0.8' " " 286-296.0-0.2' " " approx 98.6% core recy. Specimen @ 34.7' Specimen @ 38.0' Specimen @ 51.0' Specimen @ 52.7' Specimen @ 58.5' Specimen @ 63.0' Specimen @ 64.5'	
			1191	52.0'	55.8'			Nil		Nil	Tr.	3.8'	



Latitude: at 12+00N  
 Departure: on L 4+50E  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45° - 41°45' (approx) @ 320.0'

Property: FIGUERY TWP

Lot 25, Range VI, Anom. #4 Ext.

Hole No: F-4-2 (Page 3)  
 Commenced: Dec. 10/63  
 Finished: Dec. 12/63  
 Depth: 324.0'  
 Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results					Width	Remarks
						Cu	Ni	Zn	Pb	oz.Au		
34.0'	82.5'	from 81.8 - 82.5' f.g. darker green, faintly porphyritic - no flow structure. Sulphides - Nil.										Specimen @ 82.3'
82.5'	97.0'	A basic dike or sill(?) - of 50-50 light & dark minerals - close to Diorite with sharp contacts with the host rock @ 50° to c.a. - the upper less sharp than the lower - at 82.65' a chloritized zone showing banding at 75° to c.a. with a trace of Po and Cpy here. - from m.g. to v.c.g. - a few pink feldspar fractures cutting @ 25° - 30° to c.a. - at 85.9-86.3' - a f.g. dark green chloritized zone to a v.c.g. pyroxenite zone.										Specimen @ 86.2'
97.0'	132.8'	Dacite? - hard, altered, gray-green massive (no flow structure) with a few fingers of the above intrusive, injected - examples at 97.4' (1/2"); 97.7' (1/2"); 98.9' (1/2"); 99.3" (1/2"); 101.4" (1/2"); 102.6'-102.9'; 103.15' (1/8"); 104.4-104.5' cutting @ 50-60° to c.a., with later fracturing (movement - < 1/2") @ 50° to c.a. in reverse direction. - not too unlike the upper portion of the hole, with a few zones										Specimen @ 99.5'

Latitude: at 12+00N  
 Departure: on I. 4+50E  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45° - 41°45' approx @ 320.0'

Property: FIGUERY TWP

Hole No: F-4-2 (Page 4)  
 Commenced: Dec. 10/63  
 Finished: Dec. 12/63  
 Depth: 324.0'  
 Logged By: H. D. Love

Lot 45, Range VI, Anomaly #4 Ext.

From	To	Formation	Sample No.	From	To	Assay Results					Width	Remarks	
						Cu	Ni	Zn	Pb	oz.Au			oz.Ag
97.0'	132.8'	appearing to be shear zones, containing reddish garnets - a trace of Py and from 3 to 5% Py, Po disseminated - shearing occurs from 30 to 40° to c.a. - around 105' - a few narrow qtz lenses at 70° to c.a., giving some suggestion of flow; decreasing to 50° to c.a. @ 107' with an increase here in Py, Po to 5 or 10%. - at 106.8' - sheared zone, quartz filling, and some garnetization. Increase in sulphides (Po, Py) dissem. up to 10 or 15% - after 109.0'. Shearing at 50° to c.a. and fracturing at 30° to 50° to c.a. in reverse direction - the fractures are quartz filled, hard - 1/16" or less with pale yellow green alteration fringing them - a trace of cpy occurs with most of the Po - avq. < 1% - at 111.8' - 1/4" qtz vein cutting @ 50° to c.a. reverse to shearing - suggested banding @ 50° to c.a. around 113.0' from 114.7' - 126.5' - more mafic less porphyritic; f.g. - m.g. @ 122.0' - approx - a 1/2" qtz feldspar veinlet @ 30° to c.a.; fractured in several places with movement up to 1/2". at 50-55° to c.a. minute carbonated with											
(cont'd)													
													Specimen @ 106.6'
													Specimen @ 108.6'

Latitude: at 12+00N  
 Departure: on L 4+50E  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45° - 41°45'

Property: FIGUERY TWP.  
 Lot 45, Range VI, Anomaly #4 Ext.

Hole No: F-4-2 (Page 5)  
 Commenced: Dec. 10/63  
 Finished: Dec. 12/63  
 Depth: 324.0'  
 Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results					Width	Remarks	
						Cu	Ni	Zn	Pb	oz. Au			oz. Ag
97.0'	132.8'	1-2% Po, Py.											
(cont'd)		-126.5-133.0'-as from 97.0-123.8' lighter than above;											
		sheared at 25-30° to c.a., with faint banding @ 70° to c.a. - at 129.9'-130.1' a wide Qtz. feldspar veinlet, vfg. to c.g. (porphyritic) cutting at 30° to c.a. - a few zones contain garnets, only roughly parallel to shearing @ 30° to 60° to c.a. - quite glassy in places bleached and hard-Diorite	1192	126.4'	132.8'	Tr.	Nil	Nil	Nil	Nil	6.4'	Specimen @ 109.5'	
												Specimen @ 113.0'	
132.8'	149.5'	- highly sheared and altered zone - sheared from 20°-50° to c.a. - from 133.0'-133.9' up to 50% magnetite, trace pyrite, fractured at 50° (qtz filled) in reverse to shearing, altered (m.g. to c.g.) chloritized, dark green rocks (volcanic??) from 133.9'-136.0' approx. - twisted, crenulated, altered & sheared roughly @ 20° to 40° to c.a.; medium to dark green in colour, with up to 35-40% Pyrite and minor Po dissem. and lenses roughly parallel to shearing-primary mineralization with only a trace of chalco. - a few quartz carbonate veinlets parallel shearing which are - in places - cut by pyritized fractures	1193	132.8'	137.0'	0.03	Nil	Nil	Tr.	Tr.	4.2'	Specimen @ 133.6'	
												Specimen @ 135.0'	



Latitude: at 12+00N  
 Departure: on L 4+50E  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45°-41°45'

Property: FIGUERY TWP

Hole No: F-4-2 (Page 7)  
 Commenced: Dec. 10/63  
 Finished: Dec. 12/63  
 Depth: 324.0'  
 Logged By: H. D. Love

Lot 45, Range VI, Anomaly #4 Ext.

From	To	Description	Sample No.	From	To	Assay Results							Remarks	
						Cu	Ni	Zn	Pb	Co	Mn	Fe		Ag
149.5'	178.0'	158.5-158.6'-up to 75% Py, minor Po.												
(continued)		158.75-158.9'-40-50% Py, minor Po.												
		159.6-160.6'-up to 75% Py, minor 5-10% Po, quite magnetic												Specimen @ 160.0'
		166.2-166.5'-40% Py to 20% Po.												
		167.5-167.6'-50% Po, 5% Py.												
		167.9-170.0'-Siliceous zone with up to 5% Cpy & 3-5% Po.												Specimen @ 170.7'
		@ 169.0' - a narrow 1/2" veinlet of intrusive material (diorite) @ 30° to c.a.												
		@ 170.0' - garnets as at beginning of hole. - narrow shears												
		@ 174.5'-175.5' and 177.65-177.75' with up to 20 or 30% Po, minor Py.												
178.0'	182.0'	- here, darker, more basic & more massive.												Specimen @ 179.9'
		179.6-179.7' - an intrusive (diorite) finger @ 30° to c.a.												
		- also from 180.7'-181.2' - a portion of an intrusive vein, plus remnants in vicinity.												
		from 179.7'-181.4' - quite highly crenulated.												
182.0'	324.0'	from 186.2'-188.5' - as above, but f.g., hard, green-gray in colour with numerous little stringers & fractures of a lighter bleached material; sheared @ 30° to c.a.; most fractures showed lighter or bleached fringes;												Specimen @ 193.2'



Latitude: 12+00N  
Departure: on L 4+50E  
Elevation: -  
Azimuth: 180°  
Distance: 45° - 41°45' approx @ 320.0'

Roll: F-4-2 (Page 9)  
Date: Dec, 10/63  
Time: Dec, 12/63  
Depth: 324.0'  
Name: H. D. Love

FIGUERY TWP

Lot 25, Range VI, Anomaly #4 Ext.

From	To	Description	Specimen
182.0'	324.0'	patchy, med. gray-green porphyry	Specimen @ 219.5'
(cont'd)		221.45'-222.7'-sheared zone 40% Sulphides (80:20::Py:Po) Avg. sheared @ 20° to core axis.	Specimen @ 224.5'
		223.6'-225.2'- sheared zone - 60-70% sulphides (60:40 -Po:Py)	Specimen @ 225.0'
		228.0'-233.6'-highly sheared with up to 20% Py, Po, throughout, plus a few massive stringers e.g. @ 229.7'-230.2'- up to 60% Sulphides - 70-30% Po-Py; faintly magnetic.	Specimen @ 232.5'
		@ 230.8'-231.0'-35-40% Py, minor Po (5-10%) -magnetic	Specimen @ 234.5'
		@ 232.0'-232.2'-20-30% Py along shears - magnetic.	Specimen @ 246.5'
		232.2'-236.3'-sheared, spotty, blotchy volcanics - some pyrite mineralization.	
		236.3'-236.5'- sheared zone - 50-50 Py: Po - up to 75%.	
		236.5-243.45'- Dacite sheared at 30° to core axis - qtz, eyes, dark phenocrysts, numerous foreign bodies	
		243.45'-250.5'- highly sheared, bleached, altered zone, with a few garnets here and there, crenulated, patchy in appearance - with qtz and feldspar phenocrysts throughout - zone pink orthoclase feldspar associated with a few stringers of quartz -some dike-like remnants are present 5-10% dissem. Py & trace Po.	

Latitude: @ 12+00M  
 Longitude: on L 4+50E  
 Dip: 45° - 41° 45' approx. @ 320.0'

F-4-2 (Page 10)  
 Date: Dec. 10/63  
 Date: Dec. 12/63  
 Dip: 324.0'  
 Name: H. D. Love

FIGUERY TWP.

Lot 25, Range VI, Anomaly #4 Ext.

From	To	Description	Notes
182.0'	324.0'	248.5'-249.5' - highly sheared altered, chloritic zone, with up to 60% or 70% Po., Py. (3 to 1) - quite magnetic here	
		250.5'-253.8'-near massive - green-gray, dacite - porphyritic - no flow structure, with only a few narrow fractures and faintly sheared, at 35°-45° to c.a. - a 1/4" gtz-feldspar (plaq.) veinlet at 142.8 - at 35° to c.a. - 3-5% Po, Py dissem.	
		253.8'-256.8'- as above; quite magnetic along a stringer at 254.4'- with 10-15% Po, Py assoc; quite highly sheared @ 20° to 30° to c.a., others from 256.2'-256.8'	Specimen @ 252.5'
		256.8'-258.9'- bleached, spotty dacite - feldspar phenocrysts 1/8" across - some garnets in a crenulated section from 258.0'-258.3'	
		259.0'-259.8'-sheared zone with 40% Sulphides - Po:Py:70:30 quite magnetic here.	
		259.8'-263.7' - sheared, crenulated with darker stringers of magnetite, particularly from 260.8'-262.1';	
		262.3'-262.6'; 263.3'-263.5' - minor Py (< 5% avg. throughout) and 5-10% dissem. py in places	
		263.7'-272.8' - as above, but	

Direction @ 12+00N  
 Departure on L 4+50E  
 Distance 180'  
 Dip: 45° - 41° 45' approx @ 320.0'

FIGUERY TWP.  
 Lot 25, Range VI, Anomaly #4 Ext.

Hole No. F-4-2 (Page 11)  
 Date of Log Dec. 10/63  
 Date of Survey Dec. 12/63  
 Elevation 324.0'  
 Name of Geologist H.D. Love

From	To	Description	Remarks
182.0'	324.0'	more massive, less sheared, darker porphyritic with only 1-2% Po, Py. dissem. - a few minute carbonate stringers @ 30° to c.a. - some Po, Py associated @ 271.5' - a ½" gtz. feldspar veinlet @ 50° to c.a. -272.8'-279.0' - as above, but blotchy, or mottled, with large phenocrysts of feldspar - only minor (1-2%) dissem. Po, Py. along a few narrow shears after 275.5' --279.0'-283.2' - as above, sheared @ 30° & crenulated, or dragged, almost glassy in places, but overall porphyritic-green-gray in colour - f.g.-m.g. -from 282.25'-282.4' - a basic porphyritic, intrusive - 1½" wide cutting core @ 40° to c.a. - other parallel intrusive stringers elsewhere. from 282.8'-283.2' - some garnets in a bleached massive Dacite with only minor Po, Py. -283.2'-290.2' - darker, less altered, sheared Dacite - minor Po, Py. -290.2'-291.3' - approx. - patchy or blotchy, with large irregular shaped phenocrysts. Somewhat pyroclastic - trace Pyrite. 291.3'-292.5' - sheared zone - 60° to 70° to c.a. with up to 1198 80% Po, Py (50-50)	1198 290.5' 296.7' 0.02 Tr. 6.4' Specimen @ 293.5'

@ 12+00N

on L 4+50E

180°

45° - 41°45' approx @ 320.0'

FIGUERY TWP.

Lot 25, Range VI, Anomaly #4 Ext.

F-4-2 (Page 12)

Dec. 10/63

Dec. 12/63

324.0'

H. D. Love

From

182.0'

324.0'

(cont'd)

-292.5'-293.4' - highly altered, bleached, zone with some garnets in patches - greenish-yellow rock, mottled, and from 292.7' to 293.7' a highly brecciated to pyroclastic zone, with large fragments of lighter coloured volcanics in a dark green f.g. chloritized groundmass - with from 5-10% garnets, plus 2-3% Py, Po.

-293.9'-296.6' - a highly sheared zone with up to 30 or 40% Py, Po. in narrow shears. - e.g. from 293.9'-294.0' - 85% Sulphides - 70:15::Py:Po. - from 294.1'-294.3' - 80% Sulph. - 70:10::Py:Po; from 294.9'-295.8' - avg. 75% Sulphides - 50:15::Py:Po quite magnetic; lesser sulphides, mainly Pyrite elsewhere - up to 15 or 20% - sheared from 15°-40° to c.a. and crenulated.

-296.6'-304.0' - more massive than above, darker green, finer grained, less porphyritic - & in a few places somewhat foliated @ 25-40° to c.a. due to shearing - light with narrow dark stringers. 304.0'-304.9' - sheared @ 30° to c.a. with 5-10% Py, minor Po. -304.9'-308.5' - Dacite as above with a lighter, bleached zone @ 306.9'-307.2' cutting @ 50° to

Specimen @ 300.0'

@ 12+00N

on L. 4+50E

180°

45°-41°45' approx. @ 320.0'

FIGUERY TWP.

Lot 25, Range VI, Anomaly #4 Ext.

F-4-2 (Page 13)

Dec. 10/63

Dec. 12/63

324.0'

H. D. Love

182.0' 324.0'

(cont'd)

to core axis with sharp bleached contacts - porphyritic -  
 -308.5'-309.6'- sheared, altered zone with 10-15% Po, Py, fairly magnetic.  
 -309.0'-313.3'- quite massive - with less than 1% Po, Py.  
 -313.3'-317.0'- approx. - a sheared zone with sulphides throughout, disseminated and concentrated along shears - average about 30% Py-Po (50-50); a massive section at 316.3' - 316.6' - about 40% Py, Po (30-10), quite magnetic with about 1% Cpy.  
 from 215.4'-215.5' - sheared up to 319.0' - with lesser sulphides - up to 10 or 15% Po, Py. from 319.0'-324.0' in a more massive section.  
 up to 15% disseminated Py and minor Po in sections not separately described - averaging 3-5% throughout.

Specimen @ 316.5'

Specimen @ 321.0'

324.0' END OF HOLE





Latitude: on L. 9+00E  
 Departure: at 5+00S  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45°

Property: FIGUERY TWP.

Hole No: F-4-3 (Page 3/63)  
 Commenced: Dec. 13/63  
 Finished: Dec. 16/63  
 Depth: 340.0'  
 Logged By: E.D. Love

Lot 26, Range VI, Anomaly #4 Ext.

From	To	Formation	Sample No.	From	To	Assay Results						Width	Remarks
						Cu	Ni	Zn	Pb	oz. Au	oz. Ag		
34.3'	87.5'	parallel to core axis, with fractures carbonated. - after 61.0' - only a trace of Po, Py - av 69.8' - a 1/4" gray siliceous veinlet at 50° to c.a. with some Po; a few carbonate fractures or stringers up to 3/8" curving c.a. @ 60° avg. - only a trace of Po, Py here; the rock being green-gray to creamy in colour, hard, somewhat glassy, with a few Qtz. eyes scattered - at 85.9' - a shear zone @ 30° to c.a.; containing 20-30% Po., Py.											Specimen @ 63.5' Specimen @ 76.5'
87.5'	90.2'	Slate- near massive, hard, 3-5% disseminated Po; with Pyrite & Sphalerite along a narrow 1/16" carbonate stringer @ 30° to c.a.; others being almost parallel.											
90.2'	105.3'	Dacite-sheared, crenulated, bleached along stringers, & containing foreign inclusions, somewhat laminated in places - particularly from 104.0'-105.3' @ 60° to c.a.-varying from glassy gray to green-gray to creamy - hard, glassy; only a few carbonate fractures or lenses; only a trace of Po. & Py throughout.											Specimen @ 105.0'



Latitude: on L 9400E  
 Departure: at 5+00S  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45°

Property: FIGUERY TWP

Hole No: F-4-3 (Page 5)  
 Commenced: Dec. 13/63  
 Finished: Dec. 16/63  
 Depth: 340'  
 Logged By: H.D. Love

Lot, 26, Range VI, Anomaly #4 Ext.

From	To	Formation	Sample No.	From	To	Assay Results						Width	Remarks
						Cu	Ni	Zn	Pb	oz. Au	oz. Ag		
142.0'	178.0'	Tuff, medium green in colour, much fractured with carbonate fillings (minute to 1" in width) cutting core @ 30° to c.a., avg; many show some sphalerite mineralization: particularly from 145.5'-147.0', and from 151.0'-152.0'; 153.0'-154.0' & minor dissem. from 157.3'-159.0'	1301	145.5'	147.0'	0.02	-	Nil	-	Nil	Tr.	1.5'	
(cont'd)		-trace of chalcopryite from 161.0'-162.0' - from 163.0'-163.7' - trace of sphalerite - from 163.5'-164.0' - much sheared & fractured zone, with fractures almost parallel to c.a.; up to 1/3" wide & carbonate filled, with some smaller fractures cutting @ 50° to c.a. - from 166.0'-167.0' trace to 1% cpy dissem. & along carbonate fractures - from 172.0'-172.5' - some sphalerite & chalcopryite near a long carbonate fracture, parallel to c.a.	1302	157.3'	159.0'	0.02	-	Nil	-	Nil	Tr.	1.7'	Specimen @ 153.8'
		from 182.5'-186.0' Sphalerite & Cpy along a fracture (carbonated) plus some sphalerite along a 1/2" carbonate vein, essentially parallel to c.a.; with Pyrite assoc. from 187.7' - @ 50° to c.a., a carbonate stringer with a trace of sphalerite. - traces of Po, Py, dissem. throughout.											Specimen @ 176.0'
178.0'	200.8'	Dacite - hard, more massive, less fractured than above,	1303	185.0'	186.0'	Tr.		Nil		Nil	0.01	1.01'	Specimen @ 178.3'









Latitude: On Line 2+00Z  
 Departure: at 1+00S  
 Elevation: ---  
 Azimuth: 0°  
 Dip: 45° to 35° 30' approx (@530.0')

DIAMOND DRILL RECORD

Property: FIGUERY RMP

Lot 29, Range VII, Anomaly #7

Hole No. F-7-1 (Page 1)  
 Commenced: Nov 5/62  
 Finished: Nov 9/63  
 Depth: 532'  
 Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Cu	Ni	Assay Zn	Results Pb	oz. Au	oz. Ag	Width	Core Lost-C.L. Core Gain-C.G. Remarks
0'	24.0'	OVERBURDEN											Core Recovery
24.0'	193.0'	Andesite-light gray-green to gray green in colour, sheared in places @ 45°-60° to c.s. Numerous Qtz &/or carbonate fractures throughout, plus a few quartz eyes in places. (ex 35'-36') from 24.0-29.0'-lighter gray green than underlying rock - might be considered a dacite-? -25.0'-26.0'-the above with numerous tiny slaty lenses & Po pods & lenses & disseminated Po- averaging <5%; carb fractures occur throughout @ 35-55° to c.s. with Po, Py, trace Cpy & Sphalerite smeared along their faces. Mainly Po associated with shearing -after 49.0'-64.0' - only a few blebs & stringers of dark, slaty material, roughly paralleling the banding @ 50° Avg. Po. is associated as lenses with shears & Po & minor Py disseminated - avg. <3% Sulphides - after 64.0-72.4'-Andesite with numerous light (fringed with lighter or altered andesite), quartz stringers, arranged haphazardly or irregular, with only a trace of Po here along a few carbonated fractures.											86.0-90.5-0.3' Core Lost 191.0-192.5-1.5' (broken) 442.0-451.5-0.5' C.L. 451.5-458.0-0.5' C.G. 485.5-488.6-1.2' (broken) 504.0-514.0-0.3' C.L. Approx 98.9% Core recovery Specimen @ 49.5' Specimen @ 59.0' Specimen @ 69.0'



Latitude on Line 2+00E  
 Departure at 1+00S  
 Elevation: -  
 Azimuth: 0°  
 Dip: 45° to 35°30' approx (at 530.0')

DIAMOND DRILL RECORD

Property: FIGUERY TWP.

Hole No. F-7-1 (Page 3)  
 Commenced: Nov. 5/63  
 Finished: Nov. 9/63  
 Depth: 532'  
 Logged By: H.D. Love

Lot 29, RANGE VII, Anomaly #7

From	To	Formation	Sample No.	From	To	Assay Results				oz. Ag	Width	Remarks	
						Cu	Ni	Zn	Pb				oz. Au
24.0	193.0	113.7-115.0' - but with slaty lenses (5-10%) & quartz lenses roughly parallel to shearing @ 55° to c.a., accompanied by 3% or less Po, minor Py, and would average 1-2% throughout; somewhat magnetic in places.										Specimen @ 130.0'	
		- after 132.0'-increase in slaty stringers and increase in width of these to 1" or more in places (15%+); much fractured, with a few narrow (1/4") carbonate stringers, about 3% Po and minor Py with a trace only of Cpy in two places.	1169	132.0'	142.0'	0.03	0.03			Tr.	Nil	10.0'	Specimen @ 142.5'
		-155.0'-164.0'-as above, but increase in slaty material to about 28% of rock, accompanied by an increase in Po, minor Py to, from 3-5% average; from 159.5'-160.0' - a highly sheared, somewhat brecciated zone, with a qtz carbonate veinlet (1" wide) - barren; and about 10% Po as lenses and pods, with only a trace of Cpy											Specimen @ 143.5'
		-164.0'-194.0'- Andesite as above but with only a few slaty lenses, becoming much sheared after 174.0' approximately with an increase in Sulphides (Po) lenses & dissemin. slips to about 5%-up to 178.0'; after 178.0' - fewer lenses, more or less brecciated along numerous	1170	155.0'	165.0'	0.02				Nil	Nil	10.0'	Specimen @ 157.0'
													Specimen @ 174.0'
													Specimen @ 175.0'
													Specimen @ 186.0'

Latitude: on Line 2400N  
 Departure: 1400S  
 Elevation: ---  
 Ascent: 0°  
 Dip: 45° to 35°30' approx (⊙ 530.0')

DIAMOND DRILL RECORD

Property: FIGUEROA TWP

Lot 29, Range VII, Anomaly #7

Hole No. F-7-1 (Page 4)

Commenced: Nov 3/63

Finished: Nov 9/63

Depth: 532'

Logged By: H. D. Love

From	To	Description	Sample No.	Assay Results						Width	Remarks
				Fe	C	Si	Mn	Zn	Pb		
24.0'	193.0'	shears up to 189.0' approx., with up to 3 or 5% Po. as pods and lenses in places, but averaging less than 3% throughout; some of the stringers & veinlets are creamy in colour (qtz & feldspar); while others are of qtz (bluish in colour).									Specimen @ 190.0'
193.0'	259.0'	After 193.0' - andesite - more massive, less sheared, but containing numerous carbonated and silicified (qtz) veinlets or fractures. These fractures occur @ 55°-60° to c.a. average, but a few occur @ 30° to c.a., and these are up to 1/4" wide, showing some Po & Py - <2%. The shears show only a trace of Po & Cpy, but only in a few places from 206.2'-208.7' a carbonated fracture - 1/4" wide - occurring at 0° - 15° to c.a. appears to be earlier than those @ 55° - 60° and shows trace of Po. - trace of cpy along shear @ 209.8' - averaging 1% Po up to 222.0' - after 222.0'-259.0' - only a trace of sulphides, with one or two exceptions, for from 222.0'-223.0' a brecciated zone lying between two qtz veins @ 55° to c.a. (the upper one about 1/4" wide, the other 1/4" wide) showing									Specimen @ 222.0' Specimen @ 222.5'

Latitudes: On Line 2+00E

Departure: at 1+00S

Elevation: -

Azimuth: 0°

Dip: 45° to 35° 30' approx (to 530.0')

DIAMOND DRILL RECORD

Property: FIGUERY TWP

Lot 29, Range VII, Anomaly #7

Hole No. F 7-1 (Page 5)

Commenced: Nov 5/63

Finished: Nov 9/63

Depth: 532'

Logged By: H.D. Love

From	To	Description	Sample No.	From	To	Assay Results					Width	Remarks	
						Cu	Ni	Zn	Pb	Oz. Au			Oz. Ag
252.0'	259.0'	3-5% disseminated and lensed Po. Py. at 253.2-253.5' - a blue gl. vein 1" wide @ 15° to core axis with only a trace of Po. Py.											
262.0'	294.0'	Andesite to Dacite-becoming harder, finer grained, and highly sheared with slaty stringers & averaging from 3-5% Sulphides, as massive pods, lenses, stringers & minute disseminations of Po, Py. - 269.9'-270.3' - alate in a sheared zone (@ 60° to c.s.) with Po. lenses, pods at contact between alate and dacite. - also much sheared, fractured & somewhat fractured in places showing lenses & pods of Po with minor Py - i.e. 3-5% average.										Specimen @ 266.5'	
		- from 275.0'-277.5' - up to 10% plus Po. Py. as pods, lenses, stringers & dissem in a lighter, more definite dacite-quartz eyes & feldspar more prominent. - from 277.5'-286.0' - 3-5% Po. Py. as pods and lenses - same rock as above.	1171	274.5'	279.5'	0.02				Tr.	Nil	5.0'	Specimen @ 276.0'
		- from 286.0'-294.0' - up to 15% Po. Py. as pods, stringers & lenses in a sheared andesite or dacite - quite hard, light-medium gray in colour; finer grained than andesite.	1172	285.5'	293.4'	0.05	0.05			Nil	Tr	7.9'	



on Line 2+00E  
 at 1400S  
 0°  
 45° to 35°30' approx. (@530.0')

ALPINE DRILL RECORD

PROPERTY: FIGUERY TWP

Lot 29, Range VII, Anomaly #7

Core No. F 7-1 (Page 7)

Commenced: Nov. 5/63

Finished: Nov. 9/63

Depth: 532'

Logged By: R. D. Love

Depth	Elevation	Description	Assay Results						Width	Remarks		
			Cu	Ni	Zn	Pb	Oz. Au	Oz. Ag				
302.4'	336.0'	Andesite, lightly sheared, with pods & lenses & dissem. Po, Py, but averaging 5-10% with a tr. only of Cpy. No nickel test								Spec. @ 305.0'		
336.0'	357.0'	Dacite-pale, gray-green in colour, spotted with qtz eyes, hard, somewhat glassy-rhyolitic in places. A few qtz & carb. filled fractures, roughly paralleling the shearing @ 25°-60° to c.a. - (3% Po, Py, dissem.)								Spec. @ 339.0' Spec. @ 353.5'		
379.0'	379.0'	approx.-a little darker, less hard, probably andesite, altered, showing an increase here in sulphides as stringers, lenses & pods from 25-30% mainly Po, Py, & only trace Cpy/minor dissem.	1174		366.0'	376.5'	0.02		Nil	0.01	10.5'	Spec. @ 363.0'
379.0'	398.0'	approx-as above but more highly sheared (@50° to c.a.) lighter, harder, with rhyolite or dacite zones, & qtz eyes here (prob. could be considered a Dacite)- up to 30% Po, Py.	1175		383.7'	394.0'	0.02		Nil	0.01	10.3'	Spec @ 388.0'
399.0'	403.9'	as above, hard, somewhat glassy in places, qtz eyes here & there, alsty particles scattered throughout; a few carbonate fractures @ 35° to c.a. e.g. @ 401.5'-4" carb. veinlet-increase in sulphides	1176		394.0'	403.9'	0.02		Tr	0.01	9.8'	Spec @ 401.5'









Latitude: at 9+00N  
 Departure: on line 10+00W  
 Elevation: Az. - 180°  
 Azimuth: Dip 45° to 34°  
 Dip: \_\_\_\_\_

DIAMOND DRILL RECORD

Property: FIGUERY TWP.

Lot 54, Range IX, Anomaly #14

Hole No. F-14-1 (Page 1)

Commenced: Nov. 26, 1963

Finished: Nov. 28, 1963

Depth: 308.0'

Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results						Width	Remarks
						Cu	Ni	Zn	Pb	Oz. Au	Oz. Ag		
0	55.0'	OVERBURDEN											
55'	105.4'	Intermediate to Tuffaceous Volcanics - 55.0'-74.0' - pale green-grey in colour in gener- al fairly equigranular through- out, faintly foliated at 55°- 65° to core axis; a few carbon- ated stringers, slips and lenses throughout; and is somewhat pitted or leached in places in first 20' - @ 61.0-62.0' approx. is a highly sheared zone show- ing some slaty material as minute lenses and stringers, plus some narrow lenses of biotite paralleling the banding here at 50° to c.a. The carbonate stringers are up to 1/2" wide and occur from 30° to 70° to core axis generally in some direction of foliation. 74.0'-79.0' - similar rock to above but somewhat porphyritic, sheared, with an increase in slaty material to 25 or 30% in places - banded at 65° to c.a. from 75.8'-76.0' - feldspar porphyry of Andesite, or Dacite origin since a few quartz eyes are evidenced. Associated with the slate is from 3-5% Po with a trace										Specimen @ 61.0' Specimen @ 70.0' Specimen @ 74.0'	

Latitude:  $\approx 2400'$   
 Departure: on line 10-00'  
 Elevation:  
 Azimuth:  $180^\circ$   
 Dip:  $45^\circ - 34^\circ$

DIAMOND DRILL RECORD

Property: PIQUERY TRP.

Lot 54, Range IX, Anomaly #14

Hole No. P-14-1 (Page 3)  
 Crossed: Nov. 25, 1963  
 Finished: Nov. 25, 1963  
 Depth: 308.0'  
 Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results				Width	Remarks	
						Cu	Si	Zn	Pb			os.As
55'	102.4'	only of ogy associated with some po.										
	79.0-94.7'	medium gray green buffaceous zone, banded or foliated @ $60'' - 65''$ to c.a., with carbonate lenses, pods & stringers throughout - only a trace of po.										Specimen @ 83.1'
	94.7-102.0'	lighter in colour than the above, fairly massive, only faintly foliated @ $50''$ to c.a. - a few slaty stringers throughout plus carbonate stringers @ $15''$ to $30''$ to c.a. in reverse direction to foliation - some pink feldspar with the larger carbonate stringers (4 to 6") with those at 50" appearing to be the latest.										Specimen @ 99.4'
	102.0'-105.3'	as above, somewhat bleached, buffaceous rock, disseminated throughout with pyrrhotite and pyrite crystals making up from 1 to 5% of rock, increasing percentages downward. Still faintly laminated @ $60'' - 65''$ to c.a. with a few carbonate stringers @ $55''$ to c.a. possibly a trace of ogy here.										Specimen @ 109.0'
125.8'	110.0'	blaze - granitic in places, or nearly so in others, with carbonate stringers throughout										Core recovery 299%
												102.0-107.0-0.5' core lost
												Specimen @ 106.1'

Latitude: on line 10+00N  
 Departure: @ 9:00N  
 Elevation:  
 Azimuth: 120°  
 Pipe: 2 1/2" to 3 1/2"

DIAMOND DRILL RECORD

Property: FIGUERY TWP

Lot 54, Range IX, Anomaly #14

Hole No. F-14-1 (Page 3)

Commenced: Nov. 26/53

Finished: Nov. 28/53

Depth: 308.0'

Logged By: H. D. Love

From	To	Description	Sample No.	From	To	Assay Results					Width	Remarks	
						Cu	Si	Zn	Pb	oz. Au			oz. Ag
108.4'	110.0'	parallel banding @ 65° to e.s. - associated with carbonate stringers in form 10-35% Pb lines of and a trace of cov throughout. Probably a heavily sheared zone lying between the underlying rhyolite rock and the underlying andesite in fact.											
110.0'	111.0'	A highly sheared, somewhat porphyritic zone; medium green in colour, gradational from f.g. to m.g. - andesite (or tuff) with a few silty stringers @ 65° to e.s. - decrease in Pb mineralization until Nil @ 111.0'											Specimen @ 110.5'
111.0'	121.0'	ANDSITE - gradational from above into a very coarse grained porphyry with prominent feldspar crystals and laths, plus a few marks even - Feldspar porphyry - Andesite origin - gradational grained at lower 9 from 120.6-121.2' - medium grey-green in colour, foliated at 60-65° to e.s. Sulphides - traces only.											Specimen @ 115.5'
121.0'	125.0'	Highly sheared, blanchet to pale gray - rhyolite (or											Specimen @ 121.5'

Latitude: on line 10+00W  
 Departure: @ 9+00N  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45° to 34°

DIAMOND DRILL RECORD

Property: FIGUERY TWP

Hole No. F-14-1 (Page 4)  
 Commenced: Nov. 26/63  
 Finished: Nov. 28/63  
 Depth: 308.0'  
 Logged By: H. D. Love

Lot 54, Range IX, Anomaly #14

From	To	Formation	Sample No.	Assay Results								Remarks
				From	To	Cu	Ni	Zn	Pb	oz Au	oz Ag	
121.0'	308.0'	intermediate). Volcanics, banded @ 60° - 65° to c.a.; a few zones are more highly sheared than others & somewhat brecciated. - along the wider sheared to brecciated zones, the greater concentration of sulfides occur. Thus Po, Py are speckled throughout the rock from 3-5% and in the shears from 15% - 30%. The more massive occur @ 121.0' - 121.6' - 70-80% Po, minor Py,										
(cont'd)		126.2-126.9' sheared to brecciated with an average of 60-70% Po., minor Py. from 126.9'-128.0' - approx. - a few narrow stringers (1/8") of Po., averaging about 30% Po., minor (5%) Py.	1190	121.0'	131.7'							10.7' Specimen @ 125.4' Specimen @ 126.2'
		129.0'-129.1' - 50% Po. in a sheared zone.										
		129.9'-130.1' - 35-40% Po., trace Py shear.										
		131.1'-131.15' - 25-30% Po, Py, shear - trace of Cpy with Po in a few places.										
		from 129'-131'. Stringers of sulphides occurring at 131.9'; 132.5'; 132.6'; 133.8'; 133.9'; 134.4'; 135.0' with up to 50 or 60% Po, trace to minor (<5%)										Specimen @ 131.0'

Latitude: on line 10+00W  
 Departure: @ 9+00N  
 Elevation: -  
 Azimuth: 180°  
 Dip: 45° - 34°

DIAMOND DRILL RECORD

Property: FIGUERY TWP

Lot 54, Range IX, Anomaly #14

Hole No. F-14-1 (Page 5)  
 Commenced: Nov. 26/63  
 Finished: Nov. 28/63  
 Depth: 308.0'  
 Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Assay Results						Width	Remarks
						Cu	Ni	Zn	Pb	oz. Au	oz. Ag		
121.0'	308.0'	Py - Cpy??											
(continued)		from 131-153' up to 10 or 15% disseminated crystals of Po, Py and possibly a trace of Cpy. - still banded @ 60-65° to c.a. pale to medium gray-green in colour, heavily sheared in places; a few quartz-feldspar, quartz-carbonate and carbonate stringers (up to 1/4"). - other Po stringers from 142.0-142.6'; and from 149.0-152.0'; up to 15% disseminated Po, Py in places - after 153.0' - approx - lesser sulphides, mainly Py with minor Po disseminated, averaging 2-3% mainly along a few shears, highly sheared, pale, creamy to glassy from 159.3-159.9; 160.3; 161.6', and along numerous shears from 169.0'-175.5' - from 170.08'-170.23' - a quartz veinlet cutting across foliation or shearing at 40° to core axis - barren - elsewhere others less than 1/4" and barren. - from 175.5-197' approx - less than 2% Po, Py disseminated, & only a few narrow stringers of Po. - as above, pale to medium gray-green in colour; quite highly sheared in places, in others somewhat porphyritic -											Specimen @ 131.0'
													Specimen @ 142.7'
													Specimen @ 150.5'
													Specimen @ 160.0'
													Specimen @ 175.6'
													Specimen @ 189.4'
													Specimen @ 197.8'



42+50S on L 2+00E

DIAMOND DRILL RECORD

Hole No. VI 18-1

Property: VILLEMONTTEL TWP

Commenced: Oct. 8, 1963

South  
50°

Lot 43, Range VI  
Anomaly #18

Finished: Oct. 15, 1963

Depth: 694.0'

Logged By: H. D. Love

Depth	Formation	Sample No.	From	To	Assay Results					Width	Remarks
					Cu	Ni	Zn	Pb	oz. Au		
0' - 44'	OVERBURDEN										CORE: 48.0'-53.0'-0.5' core lost
44.0' - 45.5'	Hole is collared in a hard (3 1/2-4) basic volcanic to a rhyolite-quite well banded with the banding (flow?) at 60° to the core axis. Some zones are lighter in colour and are also carbonated and they carry a few grains of a pinkish to yellowish stained rock, possibly some sphalerite associated. The fracture faces here are sometimes smeared with minute crystals of Po and a trace of Cpy - < 1% S. In the darker gray-green bands, finely disseminated Po can be seen in places										70.0'-79.0'-0.4' " 79.0'-83.0'-0.6' " 87.0'-96.5'-0.5' " 206.0'-207.5'-0.6' " 303.0'-308.5'-0.3' core lost 333.5'-346.0'-2.7' " gain 383.0'-396.0'-1.0' core lost 424.0'-438.5'-1.2' " 467.0'-490.0'-0.5' core " 570.0'-584.5'-0.8' " 584.5'-597.0'-0.3' " 626.5'-630.5'-1.0' " gain 630.5'-633.5'-1.0' " lost
45.5' - 46.5'	After 45.0' - a few traces of sphalerite crystals are seen at 45.5' - a carbonated fracture filling shows a tarnished or yellow carbonate fringing it which contains amphibole (green) crystals accompanied by both Po and Sphalerite-approx 2%. The sphalerite tends to form closer to the edges of the vein and into the Rhyolite- it is about 1/2" wide and cuts the core axis at 0° to 10° (folded or pillowed?). This cuts the banding in the Rhyolite at 50° which is at 60° to the core axis. The rhyolite here is medium grey and varicoloured (yellow-white-reddish rhyolitic bands) which on the most part is dark green gray or green	1116	45.0'	53.0'	0.02	Nil	Tr	Nil	8.0'		103% core lost i.e. 98% core recovery (roughly)  Specimen @ 46.0'

















Date: 42:50 S on Line 2+00

DIAMOND DRILL RECORD

Hole No. V-18-1 (Page 10)

Location: VILLEMONTTEL TWP

Commenced: Oct. 8, 1963

Direction: South

Finished: Oct. 15, 1963

Dip: 50°

Lot 43 R VL, Anomaly #18

Depth: 694.0'

Logged By: H. D. Love

Elev	Formation	Sample No.	From	To	Assay Results					Remarks	
					Cu	Zn	Pb	oz. Au	oz. Ag		Width
160.7'	248.2' with 20-25% Py, Po. sheared at 50°-60° to core axis.										
	172.3'-172.9' - near massive pyrite (75%) with minor Po zone-fractured (later) at 40° to core axis; fractures carbonated - 172.9'-175.0' - Rhyolite with from 20-25% Py, Po; two massive stringers at 174.2' and 174.6'	1120	164.4'	174.4'	Tr	Nil	Nil	Tr	10.0'	SPEC @ 164.0'	
	-175.0' - 175.6' - near massive (70%) Pyrite with minor Po, some carbonate associated.	1121	174.4'	183.0'	Tr	Nil	Tr	Tr	8.6'	SPEC @ 186.0' SPEC @ 197.0'	
	175.6' - 183.0' - Rhyolite with massive zones @ 176.3' - 176.5' - mainly Pyrite; and at 177.2' - 177.6' sheared, carbonated with 60-65% Py, Po and 30-40% Po with lesser (60%) carbonate; the carbonate stringers occurring at 30° - 60° to core axis with Po, Py and trace. Sphalerite associated with a few; and at 180.0' - 181.0' Pyrite, Po stringers in a sheared, carbonated zone at 50° to core axis; and at 181.3'-181.7' stringers or lenses of Pyrite, Po in a sheared zone. - in the above host rock a maximum of 5% finely disseminated Po, Py occurs, with traces of Sphalerite along some carbonate stringers - 183.0'-190.1' - 60-70% Po, Py. in a sheared carbonated, and somewhat brecciated zone; shearing is at 50° to core axis; and the carbonate stringers cut this at 30° to 50° to core axis									Massive zone - Po, Py from 190.1'-206.0' 191.8' - 192.3' 192.9' - 193.0' 195.6' - 195.7' 195.8' - 196.0' 197.3' - 197.6' 197.9' - 198.5' 198.4' - 198.5' 200.4' - 201.1' 203.3' - 203.5' 204.5' - 205.0'	
	190.1' - 206.0' - similar rock to above but lesser sulphides - maximum 30% avg;	1122	183.0'	190.1'	Tr	Nil	Nil	Tr	Tr	7.1'	SPEC @ 207.0'
		1123	190.1'	200.5'	Tr	Nil	Nil	Nil	10.4'		
		1124	207.5'	211.0'	Tr	Nil	Tr	Nil	7.0'		

Lat. 42+50S on Line 2+00E.

DIAMOND DRILL RECORD

Hole No. V-18-1 (Page 11)

Depth  
Elev.

Commenced: Oct. 8, 1963

Az. South  
Dip 50°

VILLEMONTÉL TWP

Finished: Oct. 15, 1963

Lot 43 R VI, Anomaly #18

Depth: 694.0'

Logged By: H. D. Love

Elev.	Formation	Depth	From	To	Cu	Assay Results				Remarks	
						Zn	Pb	oz. Au	oz. Ag		Width
160.7'	248.2'										
(continued)	in sheared zones quite massive, but these are narrow and scattered. In the host rock Po, Py and trace Cpy accompany the sheared, fracture and carbonate stringered portion.										
	-206.0'-206.7' - massive 75% - Py, Po, zone, sheared & brecciated										
	-206.7'-207.5' - a spotty carbonated zone.										
	- 207.5' - 211.0' - Rhyolite with numerous stringers and sheared to brecciated zones of near massive Py, Po; also twisted, folded, but sheared on the average at 50° - 60° to core axis; at 208.2' - 1/2 zone of massive stringers of Po, Py and carbonate stringers with some Po, Py and trace Cpy. - 211.0'-218.8' - average up to 50% Py, Po in a highly sheared, twisted and folded zone; somewhat brecciated, with Po, Py as stringers replacing carbonate from 216.8-217.7' a massive Py, Po, zone (75%) - 218.8'-224.5' - varicoloured rhyolite with stringers, pods, blebs, and disseminated crystals of Py, Po - 10-15%; medium green to brownish green with a few creamy stringers; sheared @ 55°-60° to c.a.; at 221.5' a brecciated zone 1/2" wide at 80° to core axis with only trace of Po. - 224.5-225.8' - approx- a highly sheared, crenulated zone with up to 50% Py, with fringing Po, carbonated	1125	207.5'	211.0'	Tr	Nil	Nil	Nil	3.5'	Spec @ 207.0'	
		1126	211.0'	218.8'	Tr	Tr	Nil	Nil	Tr	7.8'	
		1127	218.8'	224.5'	Tr	Tr	Nil	Nil	Nil	4.7'	

Lat: 42+50S on Line 2+00E  
 Dip: \_\_\_\_\_  
 Elev: \_\_\_\_\_  
 Az: South  
 D: 50°

DIAMOND DRILL RECORD

PROPERTY: VILLEMONTIEL TWP  
 Lot 43 R VI, Anomaly #18

Hole No. V 18-1 (Page 12)  
 Commenced: Oct. 8, 1963  
 Finished: Oct. 15, 1963  
 Depth: 694.0'  
 Logged By: H. D. Love

Foot	Formation	Sample No.	Assay Results							Width	Remarks
			From	To	Cu	Ni	Zn	Pb	oz. Au		
248.7'	248.2' (continued) with a trace of sphalerite fringing some Po, particularly in carbonate stringers.	1129	225.8'	235.8'	Tr	Nil	Nil	Nil	10.0'		
	225.8' - 228.0' approx - greenish rhyolite, sheared at 60° to core axis, with massive stringers of Py associated; and later Quartz-carbonate fracturing in reverse direction at 40° - 45° to core axis. - 228.0' - 248.2' - rhyolite with somewhat basic bands, sheared at 45° to core axis with fractures at 30° to c.a. in reverse direction; at 228.0' - 229.5' sheared and crenulated, pale greenish to creamy colour, chloritized, with < 5% Py & Po; trace of sphalerite at 230.5'; sheared zone from 247.5' - 248.2' with 50% Py, minor Po and trace of sphalerite - from 248.0' - 249.0' the rock becomes less rhyolitic and more basic - no definite contact	1130	235.8'	245.0'	Tr	Nil	Nil	Nil	9.2'		
	248.2' - 270.0' - more or less basic Volcanics medium green gray to dark green gray in colour, m.g. sheared in places at 60° to core axis with assoc. stringers of Pyrite, lesser Po; and up to 5% dissem. Po, Py; showing biotite and chlorite along shears; and dissem. biotite; less fractured than rhyolite from 258.5' - 259.3' - a fold or crenulation with massive Py (minor Po) stringers (40-50% s). Other zone with massive stringers from 264.9' - 265.2'	1131	245.0'	255.0'	Tr	Nil	Nil	Tr	10.0'	SPEC @ 257.0'	
263.2'	289.0' - 248.2' - 270.0' - more or less basic Volcanics medium green gray to dark green gray in colour, m.g. sheared in places at 60° to core axis with assoc. stringers of Pyrite, lesser Po; and up to 5% dissem. Po, Py; showing biotite and chlorite along shears; and dissem. biotite; less fractured than rhyolite from 258.5' - 259.3' - a fold or crenulation with massive Py (minor Po) stringers (40-50% s). Other zone with massive stringers from 264.9' - 265.2'	1132	255.0'	265.0'	Tr	Nil	Tr	Tr	10.0'		



Lat  
 Elev  
 Azim  
 Dip

42±50S on Line 2+00E

DIAMOND DRILL RECORD

Property: VILLEMONTÉL TWP  
 Lot 43 R VI, Anomaly #18

Hole No. V 18-1 (Page 14)  
 Commenced: Oct. 8, 1963  
 Finished: Oct. 15, 1963  
 Depth: 694.0'  
 Logged By: H.D. Love

South  
 50°

From	Formation	Sample No	Assay Results								Width	Remarks
			From	To	Cu	Ni	Zn	Pb	oz. Ag	oz. Ag		
296.0'	308.0' - 299.4' - 299.5' - brecciated quartz filled fracture at 60° to core axis.	1138	320.0'	330.0'							10.0'	Spec @ 314.0'
308.5'	318.5' dike - basic - m.g. to c.g. - gabbro to pyroxenite with numerous parallel carbonate stringers at 50° to core axis - at 310.5' - a trace of cpy with carbonate filled fractures.											
318.5'	3200' finer grained, chilled, or contact zone! with carbonated fractures occurring at 30° to core axis.											
320.0'	540.6' appears to be a sheared basic volcanic dark green gray in colour, m.g. with 15-20% Py, Po stringers accompanying the shearing, averaging < 5% throughout; a few carbonate eyes in places with the fracturing (carbonated to 1/4" wide) - occurring at 40° to core axis in reverse direction to shearing at 35° to c.a. - traces of cpy are noted along fracturing at 335.3', 335.8', 336.0', 337.5', 337.8', 338.1', 338.3', 338.4' with trace Zn, 339.9', 340.2', 343.6', 343.7', 348.7', 348.8', 354.0', 357.2' - in places quite altered and chloritized (greener) at 359.4' - 359.9' - a black mineral (Hc) cuts across shearing in dendritic or branched veining form - at 361.0' - a trace of cpy and Sphalerite along fracture faces; as do most fractures elsewhere notably at	1139	330.0'	340.0'							10.0'	Spec @ 334.0' Spec @ 338.4' Spec. @ 359.5'
		1140	370.0'	380.0'							10.0'	Spec @ 381.0'

Lat. 42+50S on Line 2+00E  
 Elev. -  
 Az. South  
 50°

DIAMOND DRILL RECORD

Property: VILLEMONTTEL TWP  
 Lot 43 R VI, Anomaly #18

Hole No. V 18-1 (Page 15)  
 Commenced: Oct. 8/63  
 Finished: Oct. 15/63  
 Depth: 694.0'  
 Logged by: H. D. Love

From	Formation	Sample No.	From	To	Assay Results							Remarks	
					Cu	Pt	Zn	Pb	oz. Au	oz. Ag	Width		
320.0'	540.6' (continued)												
	376.8' and 378.5'												
	at 381.0' - still fractured at 40° to c.a. (up to 1/2") further traces of Cpy at 385.0', 385.3', 385.7', 385.9', 386.0, 389.0' 397.7' - average 10% S from 381.0'-395.0' - Py, Po. minor - from 395.0'-429.0' in places quite highly spotted carbonate bubbles or spherulite (too soft for quartz) plus a few carbonate filled fractures; lesser sulphides - 2% or less - trace Cpy at 408.0' and at 408.7' a trace about a carbonate (or quartz) eye; sheared here at 50° to c.a.; fracturing here shows a set of fractures at 25°-40° to c.a. cutting across shearing in reverse direction, but also cutting a system of fractures (at 50° to c.a.) at 90° rotation of core axis												
	- 418.0'-419.0'-much fractured at various angles to core axis - sheared at 30° to c.a. at 419.5' - after 421.8 less than 5% Po and minor Py to 429.0' -429.0'-452.6'- about 5% less Po with minor Py and trace of Cpy disseminated sheared from 35° - 50° to core axis	1141	385.0'	395.0'								10.0'	
	Trace of Cpy at 430.3', 430.5', 431.0', 431.4', 431.8', 432.5' (trace Zn)	1142	428.5'	438.5'								10.0'	Spec @ 441.3'
	433.0' 433.9' (trace Zn) 435.0', 435.8', 436.5' 438.9' 439.0' sheared at 50-60° to c.a. with trace of Cpy at 439.5', 439.6', 439.7', 440.9' 441.3' 442.4', 443.0'	1143	438.5'	448.5'								10.0'	Spec @ 446.5'











Latitude: on L. 16+00E  
 Departure: at 48+00S  
 Elevation: -  
 Azimuth: South  
 Dip: 45° - 36°

DIAMOND DRILL RECORD

Property: VILLEMONTTEL TWP

Hole No. V 18-2 (Page 2)

Commenced: Oct. 17/63

Finished: Oct. 25/63

Depth: 498.0'

Logged By: H. D. Love

Lot #43, Range VI - Anomaly #18

From	To	FORMATION	Sample No.	Fe	To	Cu	Ni	Zn	Pb	Ag	Au	Width	Remarks
106.0'	109.7'	Banded or laminated @ 55° to core axis (cont'd)											
109.7'	109.9'	Much shattered gray glassy to creamy with Po, minor Py & 2-3% Cpy. filling a carbonate fracture @ 45° to core axis.											
109.9'	112.0'	as above; from 110.5'-112.5'- much fractured, most carbonated with some Po & trace Cpy assoc; at 111.0' much shattered with 5% Po filling fractures with possibly 1% Cpy.											Specimen @ 111.0'
112.0'	114.5'	as above with lesser fractures and only a trace of Po, Py; glassy, grey in colour	1150	117.0'	117.5'	Tr	Nil	Nil	0.01	3.5'			Specimen @ 112.0'
114.5'	133.5'	as above, highly sheared, well laminated with slaty stringers @ 55-60° to c.a.; fractured with carbonate stringers occurring @ 50° to c.a., @ 90° rotation of core axis to shearing - up to 3/8" wide; also a few carbonate stringers parallel to banding; Pyrite crystals smeared along many carbonate fractures, plus some Po occurring with the slaty portions. @ 115.7'-116.0'-see two cbt veins.	1151	117.5'	123.0'	Tr	Nil	Nil	Tr	5.5'			

Latitude: on L. 154000  
 Departure: @ 454000  
 Elevation:  
 Azimuth: South  
 Dip: 45° to 36°

DIAMOND DRILL RECORD

Property: VILLAMONTIEL TWP

Hole No. V 18-2 (Page 3)  
 Commenced: Oct. 17/53  
 Finished: Oct. 25/53  
 Depth: 495.0'  
 Logged By: E. D. Love

Lot 43, Range VI, Anomaly #18

From	To	Formation	Sample No.	From	To	Assay Results					Width	Remarks	
						Cu	Ni	Zn	Pb	oz. Au			oz. Ag
114.5'	123.5'	4" and 1" occurring @ 35° and 49° respectively, to the c.a. containing 2-3% Po, Cpy and Sphalerite. - from 116.0'-117.0'-numerous slaty stringers, which fractured with carbonate stringers parallel to banding @ 50-65° to c.a. with movement up to 1/2" along some parallel fractures @ 30° to core axis - reverses to banding - and along most fractures Po & trace Cpy and Sphalerite is visible. - up to 15% mineralization throughout. - from 117.5'-123.0' - as above with minor Py, Po along fractures and along banding as stringers & lenses, plus trace of Cpy in some - at 123.0' a carbonate stringer 3/8" wide @ 30° to c.a. (90° rotation along c.a. to shearing) showing 3-5% Sphal. and minor Cpy. - from 123.0'-123.5' - highly sheared, Slaty <del>mass</del> - with dissem. Po (from 5-10%). - minute carbonate fractures, minute to 1/2" containing Pyrite plus Po in places with trace of Cpy and Sphalerite, and									Specimen @ 116.0'		
													Specimen @ 117.0'
			1152	123.0'	133.0'	Tr.		N11		N11	N11	10.0'	
													Specimen @ 124.5'
													Specimen @ 125.5'
													Specimen @ 127.0'
													Specimen @ 128.5'



Latitude: On L. 16+00E  
 Departure: At 49+00S  
 Elevation: ---  
 Azimuth: South  
 Dip: 45° to 36°

DIAMOND DRILL RECORD

Property: VILLEMONTIEL TRP.

Hole No. V 18-2 (Page 5)  
 Commenced: Oct. 17/63  
 Finished: Oct. 25/63  
 Depth: 498.0'  
 Logged By: M. D. Love

Lot 43, Range VI, Anomaly #18

From	To	Formation	Sample No.	From	To	Asst.			Results		Width	Remarks
						Cu	Ni	Zn	Pb	oz. Au		
133.5'	135.8'	mineralized from 15-20% with Fe. and a trace of Cpy. - the above is pale to medium green in colour.										
135.8'	159.0'	as above from 135.5'-135.8' but with a few glassy bands from 135.8'-137.5'. In general quite massive, with only a few carbonate stringers (up to 1/16") at 45° to core axis, showing only a trace of Po & Cpy or Py smeared along them. Tuffaceous also a few lighter (50% felsic minerals) bands, pale creamy gray to green, spotted with quartz eyes. -157.9'-159.0'-sheared to brecciated, creamy to glassy with some alteration of host rock fragments. This zone is immediately followed by a zone showing pyrite (crystallic) dissemination.										Specimen @ 139.0' Specimen @ 151.5' Specimen @ 158.0'
160.0'	166.5'	as above with increase in sulphides from 5% to 15% average-Po, Py and a trace of Cpy in a few places, with trace of Cpy with a few carbonate veinlets also.	1153	160.0'	166.5'	Tr	-	Nil	Nil	0.01	8.5'	Specimen @ 164.4' Specimen @ 166.5'

Latitude: on L. 16+00S  
 Departure: at 48+00S  
 Elevation: -  
 Azimuth: South  
 Dip: 45° to 35°

DIAMOND DRILL RECORD

Property: VILLEMONTÉL TWP.

Hole No. V 18-2 (Page 6)  
 Commenced: Oct. 17/63  
 Finished: Oct. 25/63  
 Depth: 498.0'  
 Logged By: H. D. Love

Lot. 43, Range VI, Anomaly #18

From	To	Formation	Sample No.	From	To	Cu	Ni	Zn	Pb	oz. Au	oz. Ag	Width	Remarks
168.5'	171.1'	Near massive (80-85%) Py, Po. in a carbonated breccia zone. No trace of Cpy or Sphalerite.	1154	168.5'	171.1'	Tr	0.02	Nil		Nil	0.02	2.6'	Spec @ 169.4'
171.1'	177.2'	Spotted Tuffaceous to Rhyolite zone with up to 40% Po & Py disseminated as slugs, lenses, and crystals	1155	171.1'	174.5'	Tr.	Tr	Nil		Nil	Tr	3.4'	
174.5'	174.5'	Up to 60% Py, Po in a spotted (carbonated) Tuff with a few carbonate stringers faintly banded at 45° to c.a.											Specimen @ 174.4'
174.5'	221.7'	- as above with from 30-40% sulphides, finely disseminated in places with massive lenses and stringers along sheared zones - shearing occurs at 60° - 40° to c.a. with fractures @ 45° in opposite direction (carbonated) - a few zones here appear quite basic; coarser grained and darker in colour. - in general, m.g. to v.f.g. or f.g.; the sulphides are mainly Pyrite, Pyrrhotite with only a trace of Cpy in a couple of places; most massive stringers are in carbonated, brecciated (particularly the larger zones) shears.	1156	174.5'	184.5'	Tr		Nil		Nil	0.01	10.0'	Specimen @ 176.5'
			1157	187.2'	193.0'	0.02		Nil		Nil	Tr.	5.3'	
			1158	201.1'	212.2'	Tr.				Nil	Tr.	11.1'	
			1159	216.8'	223.2'	0.02				Nil	Tr.	7.1'	Specimen @ 213.8'





Latitude: On L. 16+00N  
 Departure: At 48+00E  
 Elevation: -  
 Azimuth: South  
 Dip: 45° - 36°

DIAMOND DRILL RECORD

Property: VILLEMONTIEL TWP.

Hole No. V-18-2 (page 2)  
 Commenced: Oct. 12/63  
 Finished: Oct. 25/63  
 Depth: 498.0'  
 Logged By: H. D. Love

Lot 43 Range VI, Anomaly #18

From	To	Formation	Sample No.	From	To	Cu	Ni	Assay Zn	Results Pb	oz. Au	oz. Ag	Width	Remarks
272.0'	274.0'	Basic Volcanics; m.g., with only few tuffaceous bands, & only a trace of mineralization - fracturing @ 50-55°.											Spec. @ 273.0'
274.0'	295.0'	as above with numerous tuffaceous to rhyolitic bands, with a few shear zones showing Py, Po. mineralization. Numerous fractures occurring from 20°-45° to c.s.; most are cbt filled, some with qtz also - at 283.3'-283.4' a qtz cbt. & pink feldspar veinlet containing a trace of Cpy & Sphalerite. - fractures occur up to 1" wide @ 20°-30° to c.s. in opposite directions. (These latter are hard, creamy, siliceous fillings). - Numerous light creamy bands with numerous quartz eyes occur parallel to shearing or banding. - Pyrite is smeared along most shears or fracture faces, plus a trace of Cpy along some.											
295.0'	299.0'	Coarser grained, more basic, than above, dark-green in colour (appearing almost dike-like in texture); 297.0'-299.0' sheared											Specimen @ 295.5'



Latitude: On L. 16+00E  
 Departure: At 48+00E  
 Elevation: -  
 Azimuth: South 14°  
 Dip: 45° - 35°

DIAMOND DRILL RECORD

Property: VILLEMONTÉL TWP.

Hole No. V 18-2 (page 11)  
 Commenced: Oct 17/63  
 Finished: Oct 25/63  
 Depth: 498.0'  
 Logged By: H. D. Love

Lot 43 Range VI, Anomaly #18

From	To	Formation	Sample No.	From	To	Cu	Ni	Assay Zn	Results Pb	oz. Au	oz. Ag	Width	Remarks
339.0'	373.5'	but generally basic with a few carbonate stringers @ 50° to c.a. - spotted with qtz. eyes & carbonate lenses in the lighter zones - @ 368.6' - a narrow 1/16" carbonated fracture @ 50° with trace Cpy & Sphalerite.											Specimen @ 346.0' Specimen @ 368.5'
373.5'	389.0'	Approx - a coarse grained Gabbroic to Pyroxenite Dike (?) with up to 3% Po dissem. in last 2.0', and lesser elsewhere sheared in places - after 378.0' - becomes zoned or banded with rhyolite or tuffaceous stringers.	1161	373.5'	389.0'	Tr	0.02			Nil	0.01	6.5'	Specimen @ 373.7'
389.0'	391.5'	A pale green tuffaceous band cutting core with sharp contacts @ 45° to c.a. - containing stringers of qtz-feldspar (1/2") and numerous quartz eyes - Sulphides - Nil.											
391.5'	398.0'	A highly sheared Basic Volcanic (andesite) much altered in places & containing Po, Py as lenses along shears, averaging 5% Sulph. Shearing occurs @ 35°-50° to c.a. - somewhat brownish (with Biotite) and glassy (rhyolitic) in places fringing the shears.											Specimen @ 394.0'





Latitude: on L. 14+00N  
 Departure: at 51+50' N.  
 Elevation: -  
 Azimuth: 200°  
 Dip: 45° - 39°

DIAMOND DRILL RECORD

Property: VILLEMONTÉL TWP.

Hole No. V 18-3 (Page 1)  
 Commenced: Oct. 29, 1963  
 Finished: Nov. 1, 1963  
 Depth: 425.0'  
 Logged By: H. D. Love

Lot #43, Range VI Anomaly #16

From	To	Description	Sample No.	From	To	Cu	Ni	As	Sb	Re	Pb	Au	Ag	Width	Remarks
0	50.0'	OVERBURDEN													
50.0'	206.5'	Basic Volcanics (Andesite)- sheared in places @ 40° to c.a. and a few narrow shear zones are almost slaty in places with less than 2% Po & Py associated. Numerous carbonated fractures occur at various angles to core axis. -52.0'-53.0' - somewhat brecciated along a shear. -57.6'-68.2' - shear zone, chloritized with quartz and pink feldspar, with only a trace of Pyrite. - after 68.2' the rock is very basic, dark green., m.g.; sheared at 40° to core axis with carbonate filled fractures at 55° to core axis in reverse direction to shearing; about 5% disseminated Py, Po & Tr.Cpy. -74.0'-75.0'-1/16" carbonated fracture @ 15° to c.a. with feldspar, & some Po, Py & Tr.Cpy. - after 75.0'-Andesite with a few rhyolite bands, plus a few carbonated & brecciated zones showing only a trace of Py, Po; the shears carry lenses & stringers of Po with Py crystals;	1165	68.0'	80.0'	-Tr -	0.03	-			Nil	Tr	12.0'	Spec. @ 52.0'	

Latitude: Co L: 14+00E  
 Longitude: at 51+50E  
 Elevation: -  
 Azimuth: 200°  
 Dip: 45° 39'

DIAMOND DRILL RECORD

Property: VILLEMONTIEL TWP.

Hole No. V 18-3 (Page 2)  
 Commenced: Oct. 28, 1963  
 Finished: Nov. 1, 1963  
 Depth: 425.0'  
 Logged By: H. D. Love

Lot #43, Range VI, Anomaly #18

From	To	Formation	Sample No.	From	To	Cu	Ni	As	Zn	Result	oz. Au	oz. Ag	width	Remarks
50.0'	206.5'	carbonate fractures or stringers occur at 65° to c.a.; reverse to shearing @ 45° to c.a.; & host show Po. Trace Py & Cpy. along faces; dissemin. Sulphides to 3 or 5%.												
		-85.5'-86.0'- a highly sheared, glassy and creamy coloured to brecciated zone with feldspar, quartz & chloritized fragments of host rock. Only trace of Po.												Specimen @ 94.5'
		-100.0'-124.5'- as above, andesite, with 3% Sulphides; numerous carbonate stringers throughout; lighter in colour in places and somewhat tuffaceous. Sulphides are mainly Py along fractures; minor Po.												Specimen @ 106.0'
		-122.0'-122.6'- a brecciated tuffaceous band, highly fractured-only a few carbonated; Sulphides - Nil.												Specimen @ 118.3'
		@ 130.8' a 1 1/2" quartz-carbonate veinlet @ 50° to c.a.; parallel to fracturing, with from 1-2% Cpy & Sphalerite.												
		- after this only a few lenses along a few shears - <3% Sulph. disseminated & numerous carbonated fractures, and a few long pink quartz-feldspar veinlets from 50° to 15° to c.a., usually												Specimen @ 144.0'

Latitude: on L. 14+00E  
 Departure: at 51+50S  
 Elevation: -  
 Azimuth: 200°  
 Dip: 45° - 39°

DIAMOND DRILL RECORD

Locality: VILLEMONTIEL TWE.

Hole No. V 16-7 (Page 3)  
 Commenced: Oct. 28, 1963  
 Finished: Nov. 1/1963  
 Depth: 425.0'  
 Logged by: N. D. Love

Lot #43, Range VI, Anomaly #18

From	To	Description	Grain No.	From	To	Cu	Ni	Zn	Pb	Res. %	oz. Au	oz. Ag	Width	Remarks
50.0'	206.5'	narrow, but up to 1/4"; also numerous lighter spotty (quartz eyes & carbonate blabs) hard, tuffaceous to rhyolite bands (from medium to dark green-black in colour)												
		(continued)												
		-155.3'-155.4'-sheared and somewhat brecciated zone with feldspar, quartz and carbonate and remnants of host rock.												
		Sulphides - Nil												
		-161.5'-162.5'-Tuff, with qtz eyes, green gray in colour with dark gray quartz eyes. (spheres).												Specimen @ 162.0'
		-after 165.0' to 171.0'-andesite with numerous carbonate stringers with only a trace of sulphides from 148.0'-174.0'												Specimen @ 170.0'
		- after 171.0'-more massive, dark green in colour, a little coarser grained, with only a few carbonate fractures, and only a few shears with a little, Po or Py. Sheared @ 45° to 50° to core axis; a few feldspar lenses, qtz eyes & carbonate slips here and there-												Specimen @ 184.0'
		a trace of Po, Py & Cpy along a carbonated fracture @ 196.5'												
		- from 201.0'-206.5' the above rock becomes harder & glassy												Specimen @ 201.0'

OB L. 14+00E  
at 51+50'S

200°  
45° - 39°

DIAGRAM OF THE SECTION

VILLEMONTÉL TWP.

Lot 43, Range VI, Anomaly #18

Map No. V 18-3 (page 4)  
Compiled Oct. 18/63  
Revised Nov. 1/63  
Scale 1:425.0'  
H. D. Love

57.0' 206.5' (rhyolitic), heavily sheared,  
(continued) green to creamy gray in general-  
somewhat tuffaceous. -

a fracture-carbonated @ 201.0'  
showing a trace of Cpy &  
Sphalerite with Po. & Py.  
-202.0'-203.0'- a brecciated  
zone with up to 5% Po. &  
lesser Py - the rock averages  
43% Sulphides after this.  
- sheared or banded here @ 45°-  
55° to core axis.

1166	201.0'	211.0'	Tr.	Nil	Nil	Tr.	10.0'
------	--------	--------	-----	-----	-----	-----	-------

206.5' 279.0' Tuff-much lighter in overall  
colour than the above basic  
volcanics, v.f.g., harder,  
much fractured (@ 50° to  
parallel to core axis in reverse  
direction to shearing or lamin-  
ations), creamy to brownish  
(biotite) gray in places; only  
a trace of sulphides here to  
214.6'.

-214.6'-215.0'- sheared to  
brecciated zone; quartz &  
carbonate filled with up to  
60% Py, Po. and a trace to 1%  
Cpy and trace of Sphalerite.

1167	214.5'	222.0'	Tr	0.04	Nil	0.01	7.5'
------	--------	--------	----	------	-----	------	------

-215.2'-215.5'-a brecciated shear  
with 20% Po, Py as lenses with  
a trace of 1% Cpy and trace  
sphalerite; carbonated.

Specimen @ 213.6'

Latitude: On L. 14+00E  
 Longitude: at 51+50E  
 Elevation:  
 Azimuth: 200°  
 Dip: 45° to 38°

Hole No. V-18-3 (Page 5)  
 Date Rec. Oct. 28/63  
 Date Exp. Nov. 1/63  
 Depth 425.0'  
 Name E. D. Love

VILLEMONTIEL TWS  
 Lot 43, Range VI, Anomaly #18

From	To	Remarks	Gr.	Sp.	Py.	Ch.	Fl.	St.	Al.	Si.	Wid.	Remarks	
206.5'	279.0'	-similar zones occur @ 216.7' - (continued) 216.8', @ 30° to c.a. - only a few narrow 1/2" stringers of Po, Py with a trace of Cpy & Sphal. elsewhere; and from 3-5% finely dissemin. Po, Py & a trace only of Cpy (Sphalerite?) throughout.											
		-219.0-219.5' - a brecciated zone @ 55° to c.a. with from 30-35% Po, Py & a trace of Cpy.											
		-219.5-240.0' - Tuff, as above with only a few stringers & lenses of Po, Py along a few shears, & numerous narrow rhyolite bands, plus some basic bands in places - sheared @ 45°-50° to c.a. Sulphides - & only a trace of Cpy along a few fractures; but most fracture faces show pyrite crystals smeared along them.	1168	229.0'	239.0'	0.02	0.04	Nil	-	Nil	0.01	10.0'	Specimen @ 229.8'
		-240.0-279.0' as above. Tuffaceous, with lesser sulphides with numerous carbonate stringers from 55°-75° to c.a. & most show Py & some Po, & only a trace of Cpy. - Two fracture systems are evident here: the earlier is @ 55-65° to c.a., the other is @ 30° to c.a., showing from 1/2" to 1" movement along the latter where parallel fractures are evident - Quartz eyes are seen throughout.											Specimen @ 263.5'

Latitude: on L. 14+00E  
 Departure at 51+50S  
 Elevation: -  
 Azimuth: 200°  
 Dip: 45° to 39°

DIAMOND DRILL RECORD

Property: VILLEMONTTEL TWP

Hole No. V-18-3 (Page 5)  
 Commenced Oct. 28/63  
 Finished Nov. 1/63  
 Depth 425.0'  
 Logged by H. D. Love

Lot 43, Range VI, Anomaly #18

From	To	Formation	Sample No.	From	To	Ca	Ni	Fe	Mn	Pb	Cu	Au	Ag	Bi	Remarks
279.0'	307.0'	Basic Volcanics, with a few tuffaceous bands; numerous fractures are present (carbonated to 1/16"), altered in places, brownish (biotite), green in colour, with only a few lenses of Po, and a Trace of Cpy along a few fracture faces; Po, Py. dissem. < 3% average. - after 292.0' approx - highly sheared with carbonate slips and lenses paralleling shearing (@55-70° to c.a.)													Specimen @ 302.6'
307.0'	309.0'	Tuff (rhyolite tuff) with up to 75% slaty lenses and stringers well laminated or banded @ 60° to c.a. - 5-10% Po, Py with tr. cpy.													Specimen @ 307.5'
309.0'	312.0'	as above, tuff, highly sheared and well banded with a few stringers of slate up to 311.3". Banding is at 70° to c.a. here. Only trace of sulphides.													
312.0'	413.0'	Basic Volcanics - quite massive, only a few fractures, and very few tuffaceous or rhyolite bands & stringers. A few Qtz eyes & carbonate lenses throughout. Only a trace to 1% of Po, Py throughout. - from 339.0-403.5' - a large quartz vein paralleling the c.a., with only a trace of Py.													Specimen @ 317.5' Specimen @ 336.0'

Latitude: on L. 14+00E  
 Departure: at 517005  
 Elevation: -  
 Azimuth: 200°  
 Dip: 45° to 39°

DIAMOND DRILL RECORD

Property: VILLEMONTÉL TWP

Lot 43, Range VI, Anomaly #18

Hole No. V 18-3 (Page 7)

Commenced: Oct. 28/63

Finished: Nov. 1/63

Depth: 425.0'

Logged By: H. D. Love

From	To	Formation	Sample No.	From	To	Cu	Ni	Zn	Pb	Ag	Au	Width	Remarks
413.0'	425.0'	Tuff - spotted with quartz eyes and only a trace of Py or Po throughout.											Core Recovery
													50.0-54.9-0.4' core lost
													58.0-60.0-0.2' "
													62.0-63.5-0.3' "
25.0'		END OF HOLE											63.5-65.0-0.5' "
													274.5-285.0-0.3' "
													285.0-295.5-0.3' "
													295.5-306.0-0.3' "
													<1% core lost-100% Recvy.