

GM 29949

REPORT OF WORK, FORT GEORGE - LAC GUYER AREA

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Énergie et Ressources
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Québec 

13 pages

FORT GEORGE - LAC GUYER AREA

NOREX - J.B.D.C. JOINT VENTURE

REPORT OF WORK, 1973

September, 1973

R.L. MacFarlane

Ministère des Richesses Naturelles, Québec
SERVICE DE LA
DOCUMENTATION TECHNIQUE

Date: 15 AOÛ 1974
N° 29949

09048

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MAPS ATTACHED

Dwg. Nos.	MAG SURVEY	AEM NO.
1	MAG SURVEY	1
2	EM "	" "
3	MAG "	" NO. 2
4	EM "	" "
5	MAG "	" NO. 3
6	EM "	" "
7	MAG "	" NO. 4
8	EM "	" "
9	MAG "	" NO. 5
10	EM "	" "
11	MAG "	" NO. 12 & 14
12	RADEM (FIELD STRENGTH) SURVEY	" " "
13	RADEM EM	" " "
14	MAG SURVEY	" NO. 15
15	RADEM (FIELD STRENGTH) SURVEY	" "
16	RADEM EM	" "
17	MAG SURVEY	" NO. 17
18	RADEM (FIELD STRENGTH) SURVEY	" "

LIST OF CONTENTS (CONT'D)

DWG. No: 19	RADEM EM	AEM NO. 17
20	MAG SURVEY	" NO. 18
21	RADEM FIELD STRENGTH SURVEY	" " "
22	RADEM EM	" " "
23	MAG SURVEY	" NO. 19
24	RADEM FIELD STRENGTH SURVEY	" " "
25	RADEM EM SURVEY	" " "
26	RADEM " "	" NO. 22
27	RADEM FIELD STRENGTH SURVEY	" " "
28	MAG SURVEY	" " 22
29	MAG SURVEY	" NO. 24
30	EM SURVEY	" " "
31	MAG SURVEY	" NO. A
32	RADEM FIELD STRENGTH SURVEY	" " A
33	RADEM EM SURVEY	" " A
34	MAG SURVEY	" " C
35	RADEM FIELD STRENGTH	" " C
36	RADEM EM	" " C
37	EM SURVEY	SHOWING GRID
38	GEOLOGICAL SURVEY	AEM NO. 1
39	" "	" NO. 2
40	" "	" NO. 3
41	" "	" NO. 4

LIST OF CONTENTS (CONT'D)

Dwgs. Nos: 42 GEOLOGICAL SURVEY

AEM NO. 5

43-A	"	"	"	NO. 6
44-A	"	"	"	NO. 7
43-B	"	"	"	NO. 8
44-B	"	"	"	NO. 9
45	"	"	"	NO. 11
46	"	"	"	NO. 12 & 14
47	"	"	"	NO. 13
48	"	"	"	NO. 15
49	"	"	"	NO. 17
50	"	"	"	NO. 18
51	"	"	"	NO. 19
52	"	"	"	NO. 20
53	"	"	"	NO. 21
54	"	"	"	NO. 22
55	"	"	"	NO. 23
56	"	"	"	NO. 24
57	"	"	"	"A"
58	"	"	"	"C"
59	"	"	"	SHOWING GRID

LIST OF CONTENTS (CONT'D)

DRILL LOGS	HOLE #1	SHOWING GRID
	" #1	ANOMALY "C"
	" #1	" No. 1
	" #1	" No. 2
	" #1	" No. 4
	" #1	" No. 24

FORT GEORGE - JBDC - LAC GUYER AREA

REPORT OF WORK COMPLETED 1973

The area lies about 300 miles north east of Mattagami, Quebec.
(See index map attached.)

This belt of precambrian volcanics and sediments is about
40 miles long by 10 miles wide.

Preliminary geological work was completed in the summer of
1972 at 2 miles to 1 inch scale. Following this the area was chosen
for airborne EM coverage.

The area was surveyed by the Questor input method in the fall
of 1972. Following this, 2 concession blocks were obtained from the
Quebec government covering the area of interest. The JBDC participated
in the project to 40% of cost.

A total of 31 anomalies were picked up by Questor. Of these 10
anomalies were rated high to medium high priority. These were chosen
as targets to be explained during June 12 to July 31, 1973. These are
as follows: Anomaly # A, B, C, 1, 2, 12, 15, 17, 19, 24.

A crew of line cutters and geophysical operators were flown
to the area in March, 1973, along with gasoline for the summer program.
During March and April, grids and geophysics were completed on the
following groups. Anomaly # 1, 2, 3, 4, 5 and 24.

A crew of 3 geologists, 2 geophysical operators, 3 line cutters, 2 drillers, 1 cook and 1 pilot moved to the area on June 12, 1973. Lines and geophysics were completed on the following anomalies: A, C, 12, 14, 15, 17, 18, 19, 22, plus "otto showing grid" and east-west lines on Anomaly 5. All of the above anomalies were mapped and 6 X-Ray holes were drilled.

A complete set of preliminary geological, geophysical and airborne E M maps and drill logs are attached to this report.

SUMMARY:

In general 17 of the 31 anomalies were explained by trenching, drilling or surface exposure. Of the 10 high priority anomalies, "A" and 18 remain unexplained. "A" was a short response not picked up on the ground survey and thought to be sheared basic intrusive. No. 18 is in heavy overburden and is probably an extension of the barren sulphides of group 17 and 19.

The remainder were due to narrow bands of barren sulphides, graphite and flake graphite with pyrrhotite, or sheared biotite shist, as in anomaly #1. The good conductivity widths of some of the conductors is explained by the flat dip of these zones; as low as 20-30° in some cases.

The results were very disappointing and no further work is recommended for the immediate future.

LA GRANDE FORT GEORGE AREA
GUYER LAKE J.B.D.C. - NOREX JOINT VENTURE

STATEMENT OF EXPLORATION EXPENDITURES

Expenditures, 1972: 78,012.55

Expenditures, 1973:

Prospecting	\$ 2,808.50
Geological Surveys	60,238.94
Geophysical Surveys	26,135.74
Surface Work	18.00
A.E.M. Surveys	2,740.00
Linecutting	13,255.43
Drilling Costs	15,712.19
Acquisition Permit Areas	24,825.00
Supervision	3,212.81
Overhead Costs	814.87

Total Expenditures, 1973 \$ 149,761.48

GRAND TOTAL: \$ 227,774.03

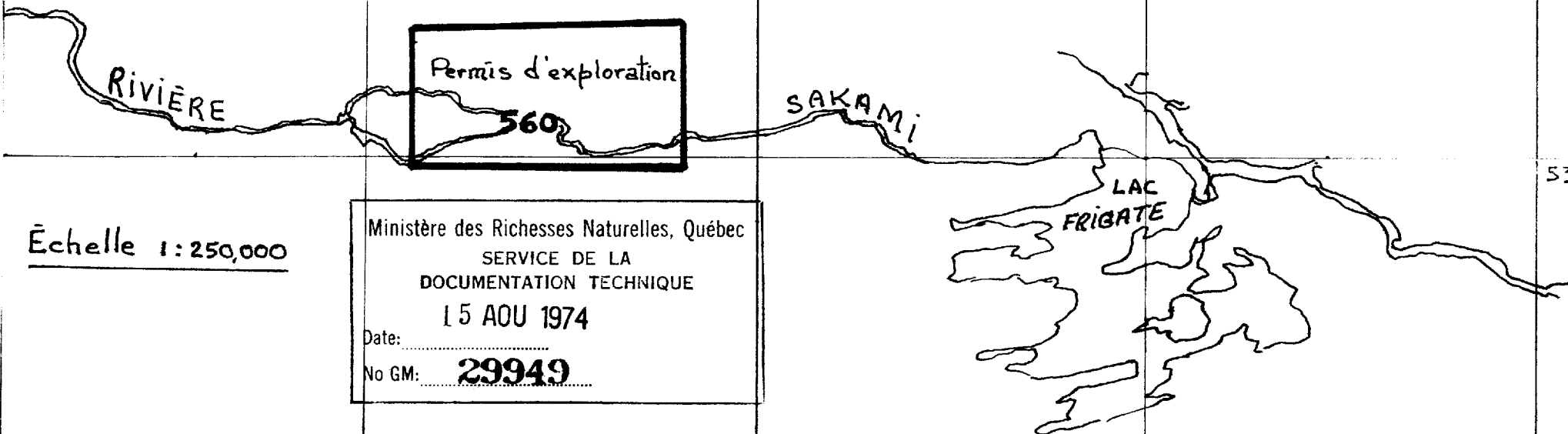
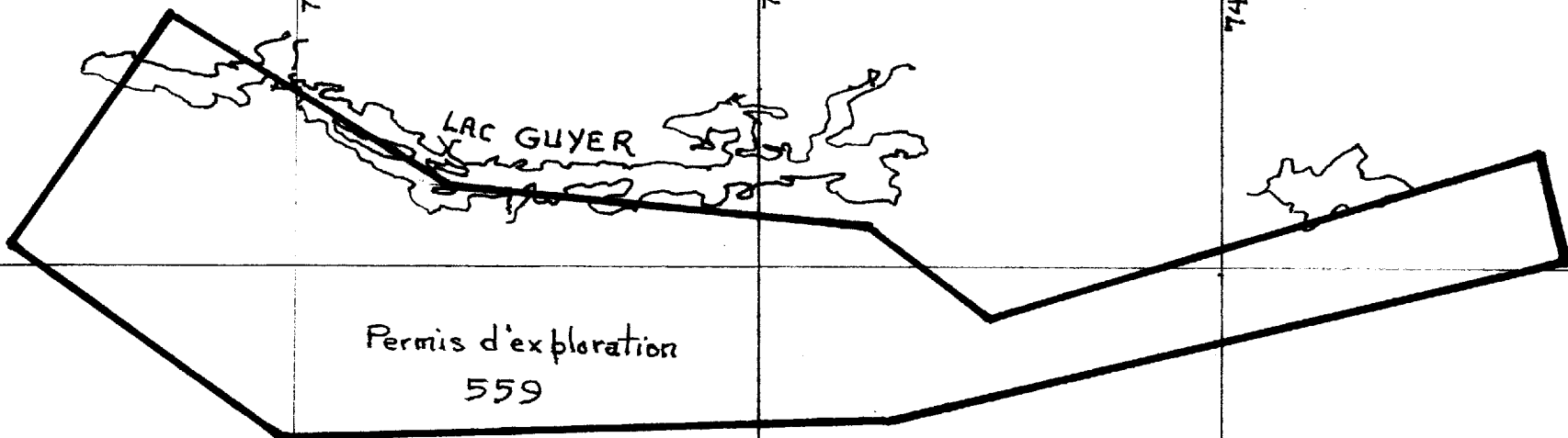
CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUND WORK)
1	25	None	3500' long OT good at center High Priority	Covered with McPhar vertical loop in winter + mag Good conductor - no mag. Geology complete, lies north of an iron formation conductor along the south shore of the lake. Entire conductor is in the lake close to impure quartzite outcrops. One hole drilled into the best airborne dot and good ground EM returned 30' of crumbly sheared contorted biotite schist. The hole was drilled to 220'. The EM was expected at 170° in the hole - where the biotite schist was intersected. No further interest.
2	17	Strong direct at West end	7500' long Has sharp intercepts - close to surface. High Priority	Covered with McPhar vertical loop in winter + mag. Good conductor on island in Breton L Geology complete. Conductor lies near contact of andesite to north and biotitic quartzites to south. One hole drilled on the island 400' west of the best AEM response and 400' east of the best ground conductor on the second best ground X-over. The conductor was explained by 7' of 30-40% pyrrhotite. 2' of this was about 70% pyrrhotite with 3, 1" bands of massive po. The core was split and assayed. CuN: values were very low. further interest.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS OF QUESTOR	RESULTS (GROUNDWORK)
3	14	closely associated flanking Medium Priority	2500' conductor lying off iron formation in andesite	McPhar vertical loop plus mag in winter. Best conductor in lake between impure quartzite and andesite. Lines up with anomaly 5 and is probably Po in quartzite unexplained N.F.I.
4	11	direct but not consistent with conductivity Medium Priority	5000' conductor Fair OT, sharp bedrock Anomaly suspect Po	McPhar vertical loop plus mag in winter. Best conductor lies along contact of garnetiferous amphiboleter gneiss and quartzite. One hole drilled 132.5 - 151 = Biotite Muscovite Pyroxene Schist +10-20 Po. 144.7 - 146.5 = 70 Po + garnet +2" l.F. 144.6-146 = Au Ag Cu Ni 2.4' Tr. .03 .04 .11 N.F.I.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUNDWORK)
5	7	45 & direct On intercept 6A	This group of conductors indicate at least 2 short conductors. Orientation survey suggested to determine strike.	McPhar vertical loop plus mag in winter several lines recut E-W plus radem + mag in summer. Two conductors lie in broad fold in amphibolite gneisses - much outcrop. East anomaly has small outcrop 20 diss Po in quartzite band. West anomaly has diss Py Po + rusty joints in amphibolite andesite on conductor.
		Medium Priority		N.F.I.
6	16	varies from 1000 G Direct to 300 G Direct	Suspect Magnetite or Pyrrhotite	No ground work other than geology check. Dots explained by narrow bands of iron formation from 1-6' wide with 10-30 Po. One dot with 1000 mag near peridotite sill, the upper part of which carries 5-15% magnetite crystals. The EM is explained by sheared & blocky iron formation on a fault scarp 50' to the north. The iron formation carries 10-40% PO PY.
		Low Priority		N.F.I.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUNDWORK)
7	11	110 G direct on intercept 14B Medium Priority	Suggest grid and Horizontal EM survey	No ground work other than geology check. The anomaly lies in Hornblende gneisses with small cross cutting Feldspar porphyry dikes. These dikes are narrow (<4') and have the occasional rusty pyrite stain. Pegmatitic granite gneiss occurs south of the dots. 5-10% disseminated magnetite in intermediate sericitic hornblende gneiss explains the 110 G air mag anomaly. N.F.I.
8	11	None Medium Priority	Flanking I.F. Probably in Andesite	No other work than geology check. The anomaly lies in swamp between granite gneisses to the north and amphibolite gneiss to the south. Because of low priority no further work done. Unexplained N.F.I.
9	4	30 G Direct Low Priority	2 intercepts indicate a bedrock conductor with a north dip close to the granite contact-	No other work than geology check. The south dot lies over agabbro which contains a trace of pyrite. The north dot lies in granite gneiss lacking in mineralization. In a gully slightly west and between the dots are several outcrops of hornblende diorite and massive hornblendite. There are rusty pyrite seams along the joints in the hornblendite. Unexplained N.F.I.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUNDWORK)
10	7	40 G Direct of east end Low priority	Lies near granite - andesite contact	No work other than geology check. This anomaly lies south of an area of granite gneiss on an overburdened ridge. Numerous small outcrops of chlorite amphibolite gneiss, andesite pillow lava and quartzitic amphibolitic gneiss occur. Several <1' acid intrusive dikes crosscutting the strike were noted. These are cross fracture fillings and contain up to 5% diss. pyrite. The general strike is $90 - 110^{\circ}$, dip 60° north with numerous small drag folds. Nothing was seen to explain any of the three dots. N.F.I.



Échelle 1:250,000

Ministère des Richesses Naturelles, Québec
SERVICE DE LA
DOCUMENTATION TECHNIQUE
15 AOU 1974
Date:
No GM: **29949**

DIAMOND DRILL CORE LOG

June & July 1973

Sheet No. 1

LATITUDE 181' East of 10.+ 00N

DEPARTURE Collar line 28W

ELEVATION _____

BEARING South RT L to E.M. (AS 240°)

DIP AT COLLAR -45°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

PROPERTY Fort George, J.B.D.C.

CLAIM NO. _____

HOLE NO. Anomaly #1, Hole #1

CORE SIZE _____

STARTED _____

FINISHED _____

TOTAL DEPTH OF HOLE _____

FOOTAGE		DESCRIPTION	SAMPLE No	ASSAYS					CORE LENGTH		
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	FROM	TO	ACC WIDTH
0	8	CASING									
8	147	IMPURE BANDED QUARTZITE - BANDS Biotite Rich, less IMMEDIATELY than 1% diss. py. CA 85 - 90° 113 - 115' Quartz Vein. 63 - 64' F.P. Dike 46 - 47' F.P. " , 1% py. cubes									
147	177	BIOTITE CHLORITE SCHIST CONTORTED, soft, crumbly. = E.M. conductor. 175 - 176' Quartz.									
177	220	IMPURE BIOTITE QUARTZITE. 176 - 181' Lost Core. 199 - 201' " " 209 - 210.5' " "									
		END OF HOLE.									
E.M. conductor should have been cut at 170 whole. Is explained by sheared, crumbly biotite schist in lake.											

Minerals and Resources Division
 SERVICE OF CANADA
 29949

CONTRACTOR _____ Noranda x-ray.

LOGGED BY R. L. MacFarlane

RLM
03048

DIAMOND DRILL CORE LOG

June July 1973

LATITUDE L 1 + 00 W
 DEPARTURE 10 + 40 N
 ELEVATION _____
 BEARING AZ 180°
 DIP AT COLLAR -55°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

Anom. 2

PROPERTY Fort George JBDC
 CLAIM NO. _____
 HOLE NO. 1
 CORE SIZE _____
 STARTED _____
 FINISHED _____

TOTAL DEPTH OF HOLE _____

FOOTAGE		DESCRIPTION	SAMPLE No	ASSAYS					CORE LENGTH		
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	FROM	TO	ACC WIDTH
0	8	Casing									
8	136	Impure quartzite with zones of biotite and green chloritic blebs									
136	140.6	Disseminated py, po in lenses									
140.6	142.2	More massive sulphides -60% py, po in chloritic shear zone	6998	tr.	tr.	.004		.005	140.6	142.2	1.6'
142.2	145	Disseminated py, po back into impure quartzite									
145	168	Impure quartzite - barren									
		END OF HOLE - Recovery 100%									

NORANDA X-RAY

CONTRACTOR

LOGGED BY R.L. MacFarlane RLM **09048**

DIAMOND DRILL CORE LOG

June July 1973

Sheet No. 1

LATITUDE 30+00E
 DEPARTURE 13 + 80N
 ELEVATION _____
 BEARING AZ 180
 DIP AT COLLAR -50°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

PROPERTY Fort George, J.B.D.C.
 CLAIM NO. _____
 HOLE NO. Anomaly C, Hole No. 1
 CORE SIZE _____
 STARTED _____
 FINISHED _____

TOTAL DEPTH OF HOLE _____

FOOTAGE		DESCRIPTION	SAMPLE No	ASSAYS					CORE LENGTH			
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	FROM	TO	ACC WIDTH	
0	53	BIOTITE GRANITE GNEISS - 20% Biotite	7217	Tr.	.04	.23	.015			53	57	4.0
			7218	Tr.	N.D.	.03	.004			57	62.6	5.6
53	62.6	MINERALIZED ZONE - Pegmatitic quartz and felspar. 28% Po. Splashes PoPy.										
62.6	78	BIOTITE GRANITE GNEISS										
		END OF HOLE.										

CONTRACTOR Noranda X-Ray

LOGGED BY R. L. MacFarlane

09048

DIAMOND DRILL CORE LOG

June July 1973

Sheet No. 1

LATITUDE L4W
 DEPARTURE 1 + 70S
 ELEVATION _____
 BEARING AZ 160°
 DIP AT COLLAR -4.5°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

PROPERTY Fort George, Guyer Lake
 CLAIM NO. _____
 HOLE NO. 1, Gastmeier Show
 CORE SIZE _____
 STARTED _____
 FINISHED _____

TOTAL DEPTH OF HOLE _____

FOOTAGE		DESCRIPTION	SAMPLE No	ASSAYS					CORE LENGTH		
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	FROM	TO	ACC WIDTH
3.0	6.0	AMPHIBOLE GNEISS (CHL, AMPH, BIOT SCHIST)	7710	Tr.	.08	.05	.015		4	14	10.0
		Interbanded with biotite quartzite. Trace Po, Py. approx. 1% Py, Po.	7711	.01	.07	.05	.01		19	24	5.0
6.0	9.0	BIOTITE QUARTZITE approx. 1% Py, Po.	7712	Tr.	.05	YOL .04	.01		24	29	5.0
9.0	13.0	BIOTITE GARNETIFERROUS QUARTZITE. 1-22 Po, Py	7713	Tr.	.05	.26	.005		39	40	1.0
		Trace CPy.	7714	.01	.20	.01	.01		43	45	2.0
13.0	14.5	BIOTITE QUARTZITE, less than 1% Po, Py.									
14.5	16.3	IMPURE QUARTZITE (CHL, AMPH) 1 - 2% Po, Py									
16.3	19.3	BIOTITE QUARTZITE, less than 1% Po, Py.									
19.3	20.0	BIOTITE GARNETIFERROUS QUARTZITE, 1 + 2% Py, Po.									
20.0	21.0	IMPURE QUARTZITE, 1 - 2% Po, Py.									
21.0	24.3	BIOTITE QUARTZITE interbanded with amph. gneiss.									
		approx. 1% Po, Py, trace CPy at approx. 23'.									
24.3	30.7	BIOTITE QUARTZITE / less than 1% py, trace CPy, approx. 27'.									
30.7	39.2	AMPHIBOLE GNEISS, 1 - 2% Po, Py.									
39.2	40.0	IMPURE QUARTZITE (Mus, amph), approx. 1/2% CPy at									

CONTRACTOR _____

LOGGED BY R.L. M. on Johnson

00048

DIAMOND DRILL CORE LOG

Sheet No. 2

PROPERTY Fort George, Guyer Lake

HOLE NO. 1, Gastmeier

FOOTAGE		DESCRIPTION	SAMPLE No.						CORE LENGTH		
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	FROM	TO	ACC WIDTH
		39.8 to 40.0'.									
40.0	42.7	AMPHIBOLE GNEISS, less than 1% Py, Po.									
42.7	44.2	AMPHIBOLE GNEISS interbanded with BIOTITE QUARTZITE									
		less than 1% Py, Po.									
44.2	47.0	AMPHIBOLE GNEISS, less than 1% Po, Py.									
47.0	49.3	AMPH. GNEISS interbanded with BIOTITE QUARTZITE,									
		less than 1% Py, Po.									
49.3	55.7	IMPURE QUARTZITE (BIOT, MUS)									
55.7	58.5	AMPHIBOLE GNEISS, trace Po.									
58.5	62.8	IMPURE QUARTZITE (MUS, BIOT)									
		Calcite crystals at approx. 61.2'.									
62.8	63.2	IMPURE QUARTZITE (CHL) less than 1% Po, Py.									
63.2	64.0	AMPHIBOLE GNEISS, less than 1% Po, Py.									
64.0	65.5	IMPURE QUARTZITE (bands of chl-amph).									
65.5	69.2	AMPHIBOLE GNEISS									
69.2	70.0	BIOTITE QUARTZITE									

09048

DIAMOND DRILL CORE LOG

Date July 1973
09048

Sheet No. 1

LATITUDE _____

DEPARTURE _____

ELEVATION _____

BEARING _____

DIP AT COLLAR _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

PROPERTY Fort George J.B.D.C.

CLAIM NO. _____

HOLE NO. Anomaly 4, Grid 4, Hole No.1

CORE SIZE _____

STARTED _____

FINISHED _____

Collar 20 + 70E, 16 + 30S, Az South Parallel **TOTAL DEPTH OF HOLE** _____

FOOTAGE to P.L. <u>-45° dip.</u>		DESCRIPTION	SAMPLE No	ASSAYS					CORE LENGTH			
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	FROM	TO	ACC WIDTH	
0	83	AMPHIBOLITE GNEISS, banded green-black. Narrow PyPo streaks 1/4" at 48'.										
83	88	QUARTZITE, creamy white, banded CA90°.										
88	101	AMPHIBOLITE GNEISS, garnetiferous, 10% diss. py.										
101	116.5	QUARTZITE										
116.5	118	AMPHIBOLITIC GNEISS, garnetiferous CA 87°.										
118	131	QUARTZITE, a few garnets.										
131	131.5	BIOTITE- MUSCOVITE PYROXENE SCHIST, 10 - 20 Po, Little Py										
131.5	132.5	Quartzite garnetiferous										
132.5	151	Biotite-Muscovite pyrexene SCHIST, 10-20 Po Little Py	7705	tr.	.01		.01	.08		138	144.5	6.5
E.M. conductor		144.7 - 146.5 70% Po. & qtz. & odd garnet + 2" cherty	7704	tr.	.03		.04	.11		144.5	146	2.5
		banded IF.	7703	tr.	.02		.05	.05		146	150	4.0
151	153	QUARTZITE, Hard, white, CA85. A few narrow layers amphibolite.										
		END OF HOLE.										
		1' open lave at 88' sand and blue clay (gouge?)										

09048

Note: Conductor Pin Pointed at 166' ahead of collar (expected and cut at 140 in hole).

CONTRACTOR _____

LOGGED BY Noranda X-ray
Reg MacFarlane *R.M.*

DIAMOND DRILL CORE LOG

June July 1953

Sheet No. 1

LATITUDE 105° East of 17 + 00S

DEPARTURE L 20 + 00E

ELEVATION _____

BEARING AZ 170 ~~XX~~

DIP AT COLLAR -60°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing

PROPERTY 05048 Fort George, J.B.D.c.

CLAIM NO. _____

HOLE NO. Anomaly 24, Hole No. 1

CORE SIZE _____

STARTED _____

FINISHED _____

TOTAL DEPTH OF HOLE _____

FOOTAGE		DESCRIPTION	SAMPLE No	ASSAYS					CORE LENGTH		
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	FROM	TO	ACC WIDTH
0	19	CASING	7215	Tr.	.04	.02	.011	.012	67	68.5	1.5
19	26	HORNBLLENDE GRANITE GNEISS	7216	.01	.04	.10	.008	.004	96	96.7	.7
26	36	BANDED AMPHIBOLITE, CA 65°									
36	43	QUARTZITE, CA65 - 80°									
43	52	IMPURE QUARTZITE (BANDED, AMPHIBOLITIC)									
52	68	QUARTZITE, 67 - 68.5 - 50% PoPy - 3" massive.									
67	147	GARNET HORNBLLENDE GNEISS									
		102.5 - 102.8' Quartz									
		103.5 - 3" of quartzite									
		106.5 - 5" quartz sta									
		112.2 - 5" quartz sta									
		96' - 3" massive Po.									
		END OF HOLE - Casing and shoe left.									
		E.M. conductor explained at 67'									

CONTRACTOR Noranda X-Ray

LOGGED BY R. L. MacFarlane *RLM*

Guyon Lake

E-pts return
of
Anomalies

Use Farlane
Feb. 6/74

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUND WORK)
-----------	--------------------------	-----	------------------------	--------------------------

1 ✓

25

None

3500' long
OT good at center

High Priority

*graphite de
saisissement ?*

Covered with McPhar vertical loop in winter + mag
Good conductor - no mag.
Geology complete, lies north of an iron formation conductor along the south shore of the lake. Entire conductor is in the lake close to impure quartzite outcrops. One hole drilled into the best airborne dot and good ground EM returned 30' of crumbly sheared contorted biotite schist. The hole was drilled to 220'. The EM was expected at 170° in the hole - where the biotite schist was intersected.

No further interest.

check with I.P.

2 ✓

17

Strong
direct at
West end

7500' long
Has sharp
intercepts
- close to
surface.

High Priority

*Po same as
sulfur (?)*

Covered with McPhar vertical loop in winter + mag.
Good conductor on island in Breton L
Geology complete. Conductor lies near contact of andesite to north and biotitic quartzites to south.
One hole drilled on the island 400' west of the best AEM response and 400' east of the best ground conductor on the second best ground X-over. The conductor was explained by 7' of 30-40% pyrrhotite. 2' of this was about 70% pyrrhotite with 3, 1" bands of massive po.

The core was split and assayed.
CuN: values were very low.

No further interest.

Ministère de l'Énergie et des Ressources
Service de la Géoinformation
Date: 18 JAN 1991
No GM: 29949

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS OF QUESTOR	RESULTS (GROUNDWORK)
3 ✓ <i>what is ground work OK</i>	14	closely associated flanking Medium Priority	2500' conductor <u>lying off iron</u> <u>formation in</u> <u>andesite</u> ?	McPhar vertical loop plus mag in winter. Best conductor in lake <u>between impure</u> <u>quartzite and andesite.</u> <u>Lines up with anomaly 5 and is probably Po in</u> <u>quartzite unexplained</u> N.F.I. <i>INTÉRÊT pour sulfures exhalés</i>
4 ✓	11	direct but not consistent with conductivity Medium Priority	5000' conductor Fair OT, sharp bedrock Anomaly suspect Po	McPhar vertical loop plus mag in winter. Best conductor lies along contact of <u>garnetiferous amphiboleter gneiss and</u> <u>quartzite.</u> One hole drilled 132.5 - 151 = Biotite <u>Muscovite</u> <u>Pyroxene</u> Schist +10-20 Po. 144.7 - 146.5 = 70 Po. + garnet <u>+2" I.F.</u> <i>INTÉRÊT à si faible valeur</i> <i>en terrain</i> <i>car milieu possible 144.6-146 = Au Ag Cu Ni</i> <i>exhalés 2.4'</i> Tr. .03 .04 .11 N.F.I.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUNDWORK)
5 ✓	7	45 & direct On intercept 6A	This group of conductors indicate at least <u>2 short</u> <u>conductors</u> . Orientation survey suggested to determine strike.	McPhar vertical loop plus mag in winter <u>several lines recut E-W</u> plus <u>radem + mag</u> in summer. <i>don't have.</i> Two conductors lie in broad fold in <u>amphibolite gneisses</u> - much outcrop. East anomaly has small <u>outcrop 20 diss</u> <u>Po in quartzite band</u> . West anomaly has diss <u>Py Po + rusty</u> <u>joints in amphibolite andesite on</u> <u>conductor</u> .
6	16	varies from 1000 G Direct to 300 G Direct	Suspect Magnetite or Pyrrhotite	No ground work other than geology check. Dots explained by <u>narrow</u> <u>bands of iron formation</u> from 1-6' wide <u>with 10-30 Po</u> . One dot with 1000 mag <u>near peridotite sill</u> , the upper part of which carries 5-15% magnetite crystals. The EM is explained by sheared & blocky iron formation on a fault scarp 50' to the north. The iron formation carries 10-40% PO PY.
		Low Priority	<i>in fact see I.F.</i>	N.F.I.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUNDWORK)
7	11	110 G direct on intercept 14B Medium Priority	Suggest grid and Horizontal EM survey <i>peut être plus de tufs acides</i>	No ground work other than geology check. The anomaly lies in <u>Hornblende gneisses</u> with small cross cutting <u>Feldspar porphyry dikes</u> . These dikes are narrow (<4') and have the occasional rusty <u>pyrite stain</u> . <u>Pegmatitic granite gneiss</u> occurs south of the dots. 5-10% disseminated magnetite in <u>intermediate sericitic hornblende gneiss</u> explains the 110 G air mag anomaly. N.F.I. <i>done</i>
8	11	None Medium Priority	Flanking I.F. Probably in Andesite. <i>peut être volca. acide ds association I.F. schist</i>	No other work than geology check. The anomaly lies in swamp between granite gneisses to the north and amphibolite gneiss to the south. Because of <u>low priority</u> no further work done <u>Unexplained</u> N.F.I.
9	4	30 G Direct Low Priority	2 intercepts indicate a bedrock conductor with a north dip close to the granite contact- <i>chercher rocher acides & miniera.</i>	No other work than geology check. The south dot lies over <u>gabbro</u> which contains <u>a trace of pyrite</u> . The north dot lies in <u>granite gneiss</u> lacking in mineralization. In a gully slightly west and between the dots are several outcrops of <u>hornblende diorite</u> . <u>massive hornblende</u> . There are <u>rusty pyrite</u> <u>seams along the joints in the hornblende</u> . <u>Unexplained</u> N.F.I.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY QUESTOR	RESULTS (GROUNDWORK)
10	7	40 G	Direct of east end	No work other than geology check. This anomaly lies south of an area of granite gneiss on an overburdened ridge. Numerous small outcrops of <u>chlorite amphibolite gneiss</u> , <u>andesite pillow lava</u> and <u>quartzitic amphibolitic</u> <u>gneiss</u> occur. Several <1' <u>acid intrusive dikes</u> crosscutting the strike were noted. These are cross fracture fillings and contain up to 5% dis- pyrite. <i>part of the volca. ac. dks & minerali.</i>
		Low priority		The general strike is 90 - 110°, dip 60° north with numerous small drag folds. Nothing was seen to explain any of the three dot N.F.I.

CONDUCTOR	APPARENT THICKNESS OF	MAG	COMMENTS BY GUESTOR	RESULTS (GROUNDWORK)
11	7	High direct on all intercepts Med.-High Priority	Probably caused by Pyrrhotite <i>part due to volc. acids + aména.</i>	No work other than geology. Mag highs on south cond due to <u>peridotite</u> . South west dot due to <u>pyrite pyrrhotite</u> . Dots north of west end of lake probably due to <u>Po in quartzite</u> . Partly unexplained. N.F.I.
12	16	70 G. Direct High Priority	Sharp Well defined <i>possibilité d'antres sulfures</i>	Radem + mag + geology + striping Conductor lies on <u>north edge of a band of quartzite</u> . It is explained on the west end by <u>5" of heavy Py Po</u> . On the east end by <u>5" of massive Po</u> . Explained. N.F.I.
13	8	Small direct Med. Priority	 <i>possibilité antres sulfures</i>	No work other than geology check. The dots immediately north of the lake are caused by <u>pyrite-pyrrhotite mineralization in quartzite</u> . <i>→ part due to hypobitique</i> A few specks of <u>chalcocite</u> are present. The northern dots lie along the contact of <u>gabbro and quartzite</u> . The quartzite carries <u>10-12% pyrite</u> . Partially explained. N.F.I.
14	8	60 G. Direct Medium Priority	Could be covered with grid for #12 <i>part due to sulfures</i>	Summer grid Radem, Mag + Geology. Anomaly was trenched and is due to <u>1-4' of heavy pyrite pyrrhotite in quartzite (rhysolite?)</u> adjacent to <u>peridotite</u> . Explained. N.F.I.

CONDUCTOR	APPARENT THICKNESS OT	MAG	COMMENTS BY GUESTOR	RESULTS (GROUNDWORK)
15 ✓	28	High Flanking High Priority	6500' conductor Intercept 48c Strongest in Survey Area. <i>milieu oxidatif (L.T.) & sulfures</i>	Summer grid Radem, Mag + Geology Anomaly trenched in 3 places along strike west of intercept 48c. Anomaly due to 1-3' of massive pyrrhotite pyrite containing a few fragments of cherty iron formation. Values negative. Explained. N.F.I.
16 ✓	3	120 G. Flanking Low Priority	Weak anomaly Racey survey recommended <i>NEAR TERRAIN</i>	No work other than geology check. The anomaly lies in heavy sand ridges up against a hillside to the south. White granite gneiss on the hillside. Unexplained. N.F.I.
17 ✓	25	High direct and Flanking High Priority	5000' conductor has excellent OT at the east end short 11 conductor south and west of main zone. <i>possibilité autres sulfures près volc. acides</i>	Summer grid, Radem, Mag, Geology trenched. The north conductor zone is banded silicious iron formation with patches of disseminated Po.Py. The Mag anomaly is peridotite. The south conductor is a 1' wide band of massive pyrite in quartzites. (<i>pyrrhotite (?)</i>) Explained. N.F.I.
18 ✓	22	Direct Med.-High Priority	Possibly parallel conductors of varying conductivity thickness.	Summer Radem, Mag. & Geology Conductor lies in overburden between granite gneiss and amphibolite gneiss. Expect barren sulphides as in 17 & 19. Expect too much overburden for X-ray drill. Unexplained. (<i>check boulder + minima environment</i>)

As stated. No blasting. E.P.

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CONDUCTOR	APPARENT THICKNESS CT	MAG	COMMENTS BY GUESTOR	RESULTS (GROUNDWORK)
19 ✓	24	175 G. direct Very High	2 separate short conductors Sulfides suspected. <i>sulfures ds volca (?) acides</i>	North conductive zone is in overburden and unexplained. The south conductive zone is in <u>ironiferous quartzite</u> which was trenched in 3 places (see map). <u>These showed bands and pods of massive Fe. Py. up to 3' wide.</u> Explained. N.F.I.
20 ✓	4	100 G. direct Med. Priority	weak but legitimate bedrock conductor <i>Fe etc volca acide + sulfures</i>	No work other than geology check. Conductor lies in overburden north of an area of andesite and amphibolitic gneiss. Unexplained, weak. N.F.I.
21 ✓	12	135 G. on intercept 75H Med. Priority	Series of 11 cond. <i>Sulfures ds volca. acides</i>	No work other than geology check. Conductors lie near rusty <u>pyrrhotite bearing narrow bands of quartzite in amphibolitic and hornblende rocks</u> anomalies are explained by varying amounts of <u>disseminated and streaks of pyrrhotite.</u> Explained. N.F.I.
22	5	Flanking Low Priority	Part of a larger trend but has better CT value <i>contact acide - inter à baston + sulfures</i>	Summer grid, radon, mag, geology. Two ground conductors. The north conductor is <u>pyrite & pyrrhotite in quartzite.</u> The south conductor lies in overburden <u>along the contact of amphibolitic andesite and quartzite.</u> This conductor is long and of medium strength. It is probably pyrrhotite along the contact. Unexplained. N.F.I.

CONDUCTOR	APPARENT THICKNESS CT	M/G	COMMENTS BY GUESTOR	RESULTS (GROUNDWORK)
23	6 + 8 Med. Priority	On flank of High Mag (I.F.)	Probably 2 separate conductors <i>milieu exhalatif</i>	Geology check only. The anomaly lies in esker + sand overburden north of biotitic quartzite outcrops. These outcrops have <u>narrow bands of pyrrhotite iron formation.</u> Unexplained. N.F.I.
24	9 + 14 High Priority	50 G. Direct on 91 B	Good OT values strike in question	Winter grid AcPhr vertical loop EM Mag geology 1 drill hole anomaly explained by <u>1.5' of 50% Po Py</u> Negative values. D Explained. N.F.I.
25	18	Direct	Part of long zone <i>milieu exhalatif</i>	Trenched <u>pyrrhotite iron formation</u> + outcrops of same to west. N.F.I.
26	21	Flanking	On strike of 25 <i>milieu exhalatif</i>	Trenched <u>Pyrrhotite iron formation.</u> N.F.I.
27 & 28	21	Direct & Flanking	Both are good OT areas on strike of 25 & 26 <i>milieu exhalatif</i>	Small round outcrop of <u>Po I.F.</u> in area of 23 #27 unexplained.

Quest 012

-11-

CONDUCTOR	APPROXIMATE THICKNESS OF	MAG.	CONDUCTOR COMMENTS	RESULTS (GROUNDWORK)
A	12 Med. High Priority	15 G. Flanking	Strike in question could extend to west	Summer grid Radon mag. geology AEM not picked up on ground. Rocks are granite gneisses and a rubby biotite quartz diorite rock which resembles highly altered peridotite. This is 200' east of the airborne dot. The AEM is probably wet shears with electrolyte. Unexplained. N.F.I.
<i>check with IP.</i>				
B	9 Med. High Priority	Flanking	Short strike length + fair conductivity	Geology rocky and trenching anomaly caused by a flat bed of pyrrhotite-graphitic quartzite in granite gneisses. Explained. N.F.I.

ANOM	FID	CHS	2	TCP	SYM	M-POS	GAMMA
001A	793.33	5	4	12	C	793.40	15
001B	797.65	2	2	NC	F	0.00	0
002A	894.54	4	4	9	D	0.00	0
003A	780.04	4	2	9	D	779.95	90
007A	899.28	2	1	NC	F	899.45	35
015A	98.40	2	1	NC	F	0.00	0
019A	75.17	2	1	NC	F	75.30	45
019B	77.34	4	3	5	E	0.00	0
020A	168.10	5	5	10	D	0.00	0
020B	168.20	5	8	20	B	0.00	0
020C	171.06	6	16	12	C	170.90	25
021A	99.58	4	3	5	E	0.00	0
021B	99.66	3	2	7	D	99.80	20
021C	101.95	6	24	17	C	0.00	0
022A	144.30	6	8	29	A	0.00	0
022B	144.40	6	20	21	B	0.00	0
022C	146.85	4	5	3	E	146.75	15
022D	146.96	3	2	7	D	0.00	0
023A	171.81	6	14	11	D	0.00	0
023B	171.91	6	10	10	D	172.05	65
023C	173.99	6	8	NC	F	0.00	0
023C	173.90	3	2	3	E	0.00	0
024A	197.15	4	3	5	E	0.00	0
024B	197.23	3	2	2	E	197.40	75
024C	199.25	4	3	5	E	0.00	0
025A	122.19	6	18	22	B	122.10	95
025B	122.32	6	9	27	A	0.00	0
025A	148.58	6	44	11	D	0.00	0
026B	148.70	6	15	13	C	148.90	140
027A	125.55	4	3	6	D	0.00	0
029A	744.10	2	1	NC	F	0.00	0

09000



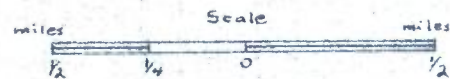
ANOMALY 8

LEGEND

- G Granite
- ID Granodiorite

SYMBOLS

- + Gneissose
- ↘ Strike and dip of foliation
- ↙ Strike and dip of jointing
- Outcrop
- ⊕ A.E.M.
- ≡ Marsh



declination 21° 30' west

DWG. No. 43-B

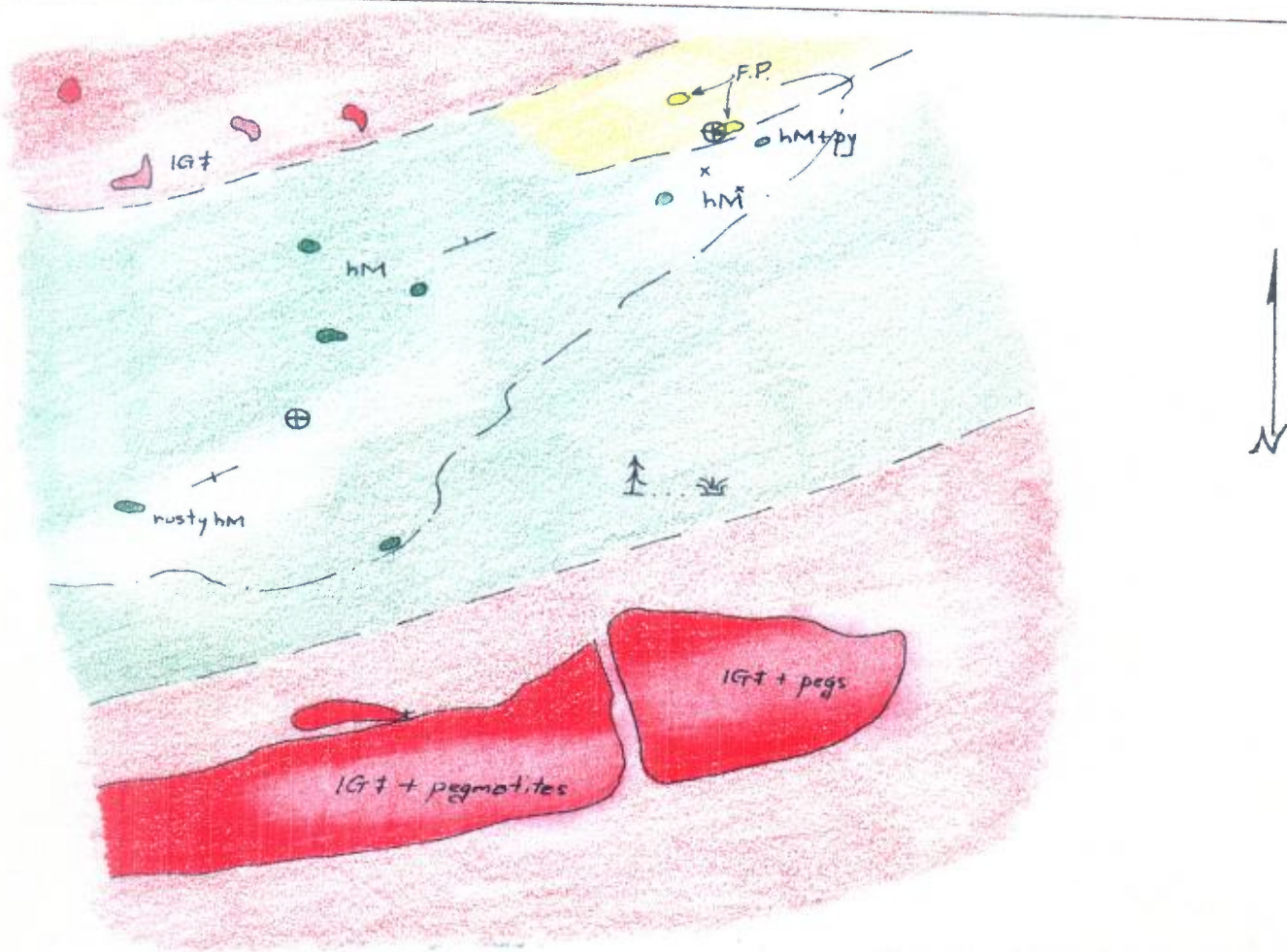
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Date: 15 AOU 1974

No GM: 29949

J. KINARDE





LEGEND

- █ IGT - granite gneiss
- █ F.P. - acid volcanic - felspar porphyry
- █ h.M. - hornblende schist gneisses

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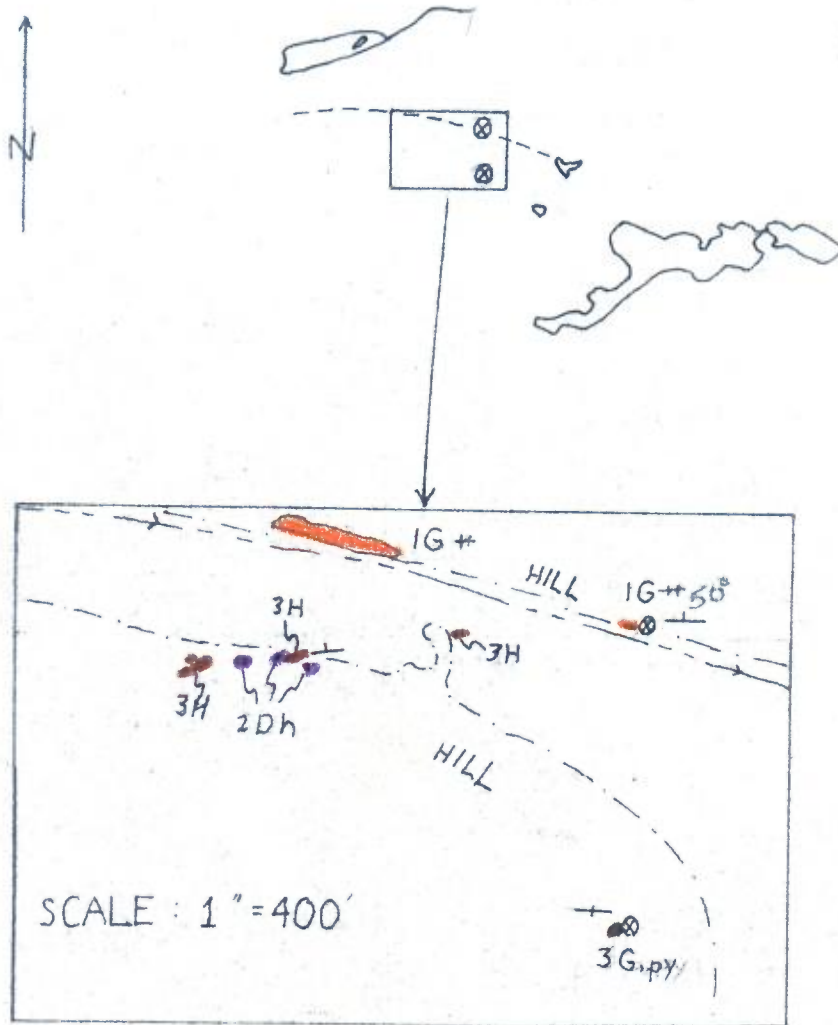
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093045

ANOM. 7

Scale
 1" = 400 feet

ANOM # 9

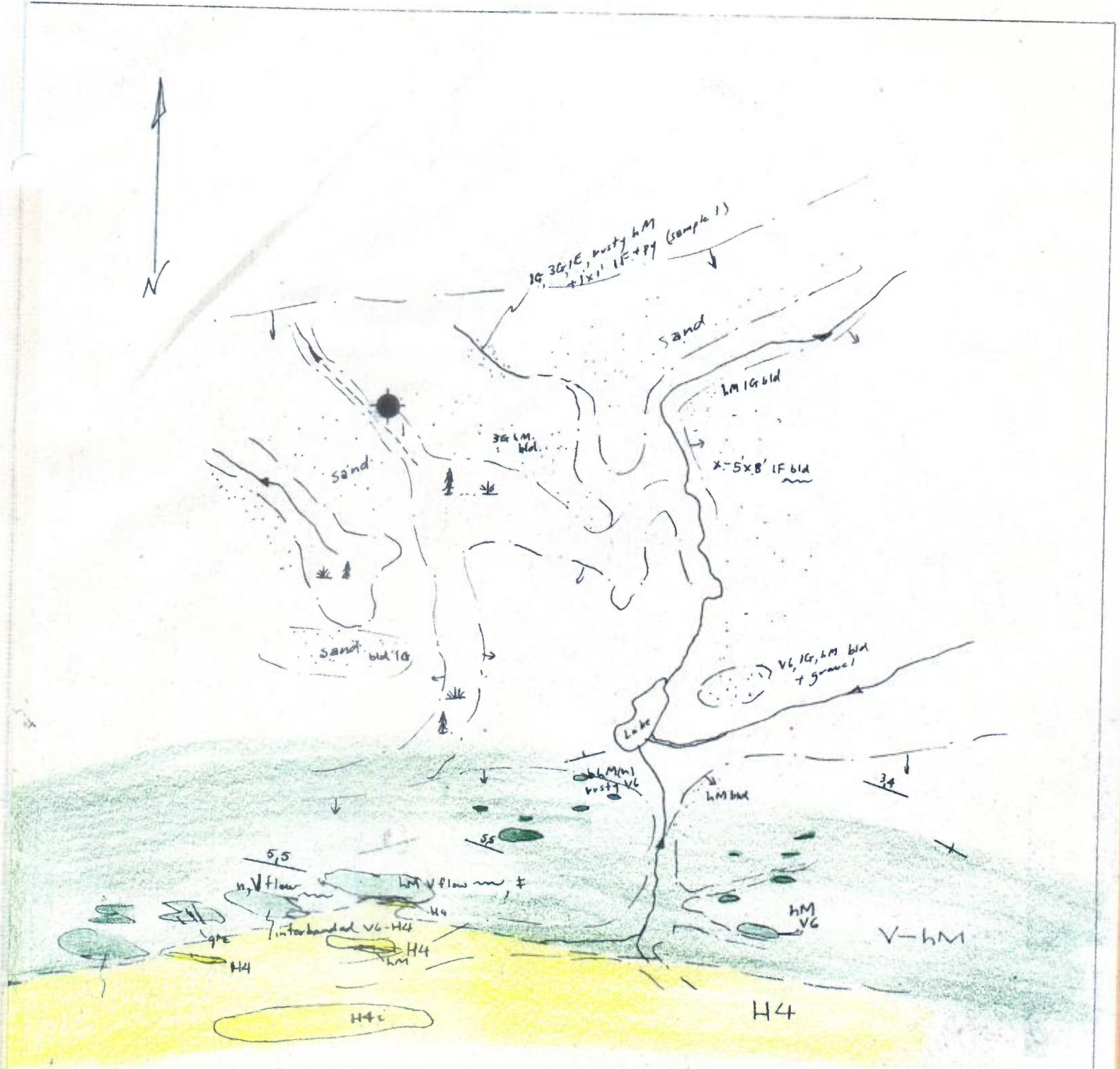


-  IG+ Granite gneiss
-  2Dh Hornblende diorite
-  3G Gabbro
-  3H Hornblendite

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ANOM. 20
 (unexplained)

Legend

- V6 - H4 --- basic volcanic s with quartz veins
 flow banded, drag fold etc
- H4 --- impure quartzite interbanded with
 Volcanics
- IG --- granite, granite gneiss
- IE --- pegmatites