



32D13NW0026 13 STEELE

010

Diamond Drilling

Township of STEELE

Report No: 13

Work performed by: Canadian Occidental Petroleum Limited

Claim No	Hole No	Footage	Date	Note
L 399956	PA-75-1	379.0'	-	(1) (2)
L 400000	PA-75-2	478.0'	-	(1) (2)
L 371834	PA-75-3	434.0'	-	(1) (2)
L 400006	PA-75-4	475.0'	-	(1) (2)
L 400024	PA-75-5	564.0'	-	(1) (2)
L 400059	PA-75-6	586.0'	-	(1) (2)
L 400067	PA-75-7	575.0'	-	(1) (2)
L 399935	PA-75-8	509.0'	-	(1) (2)
		<u>4000'</u>		

12 - Autositives Enclosed

Notes:

(1) #250-75

(2) June 5, 1975 is the date given for completion of this report.

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OCT 21 1975

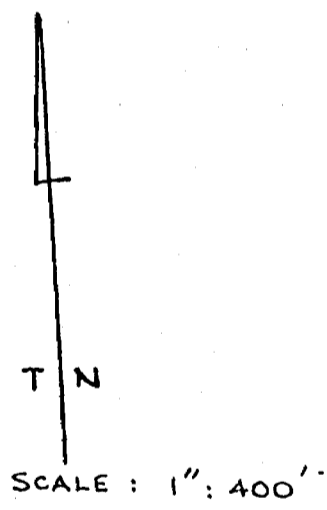
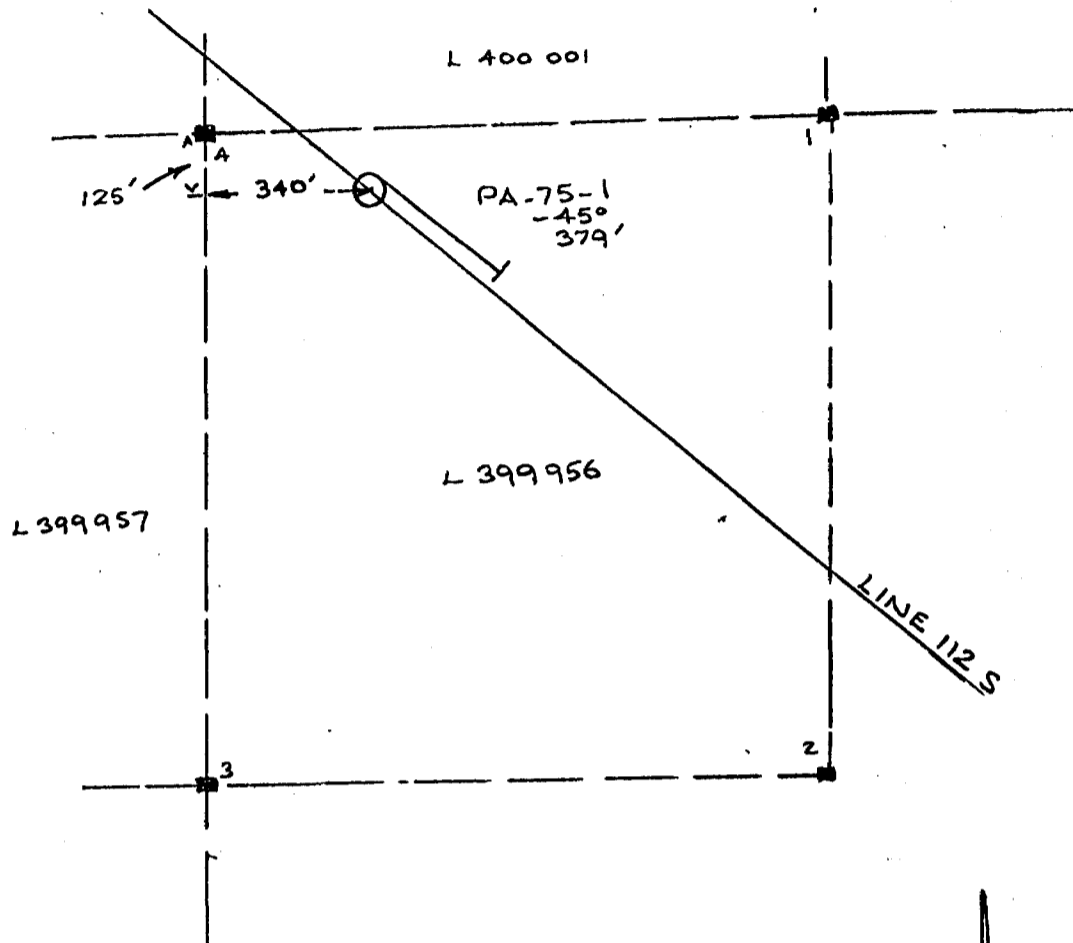
PROJECTS UNIT

A total of 4000' of AQ wireline (core size 1.062 inch) diamond drilling in eight holes as listed below was drilled by Hosking Diamond Drilling Co. Ltd., 20 Tardif St., Rouyn, P.Q., between the dates of January 29-April 3, 1975.

(For the names of persons involved in the diamond drilling, see Appendix III of the accompanying report)

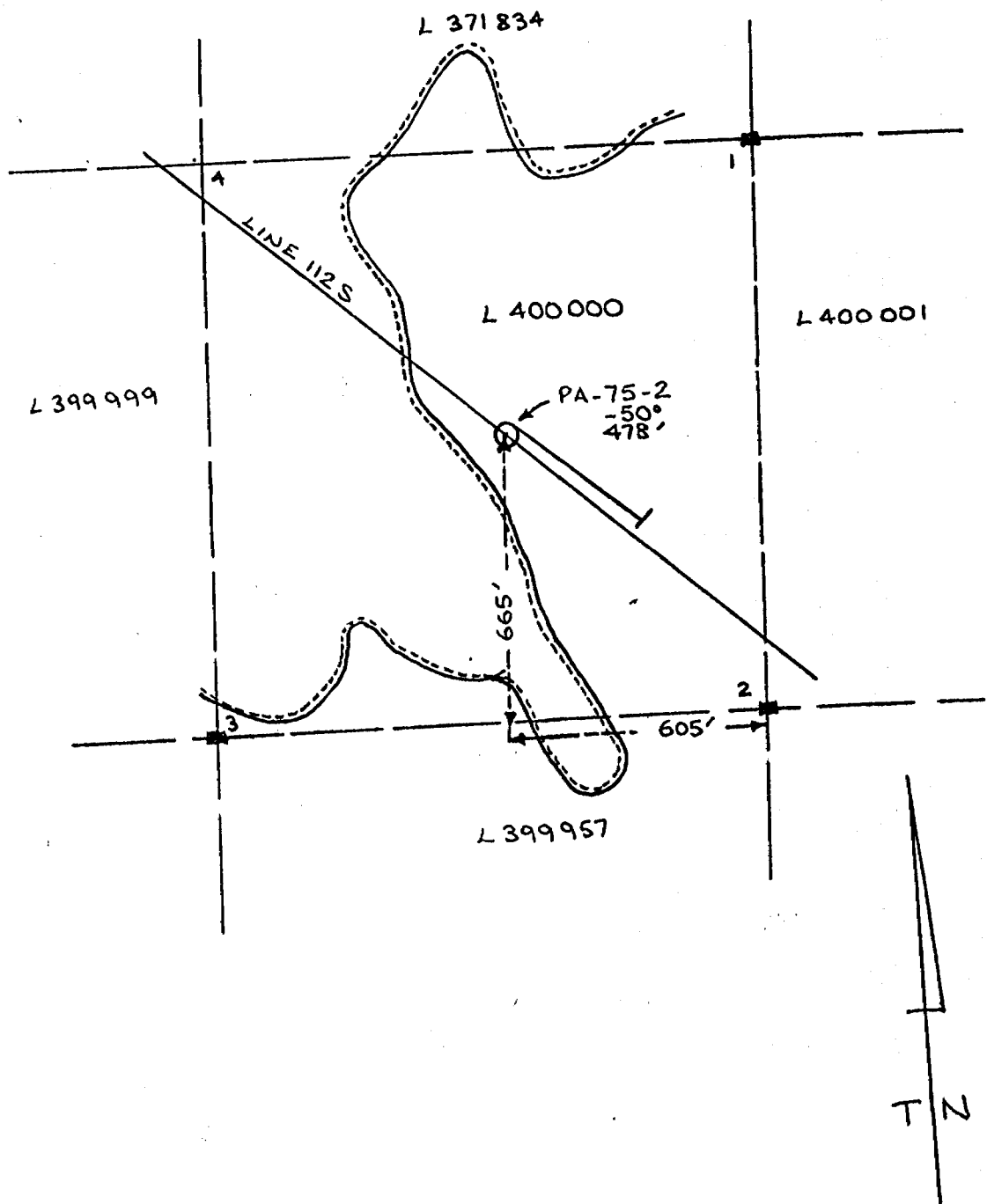
<u>Drill Hole No.</u>	<u>Depth</u>	<u>Inclination</u>	<u>Bearing</u>	<u>Claim No.</u>
PA-75-1	379'	-45°	132°	L399956
PA-75-2	478'	-50°	132°	L400000
PA-75-3	434'	-55°	132°	L371834
PA-75-4	475'	-55°	132°	L400006
PA-75-5	564'	-55°	132°	L400024
PA-75-6	586'	-60°	132°	L400059
PA-75-7	575'	-65°	132°	L400067
PA-75-8	<u>509'</u>	-60°	132°	L399935
Total footage	<u>4,000'</u>			

As most of the drill holes are located in water claims, in addition to individual sketches showing the location of each hole, copies of geophysical survey plans with the exact location of each hole are also attached.



CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
 PROJECT ABITIBI
 SKETCH SHOWING THE LOCATION
 OF DIAMOND DRILL HOLE PA-75-1

N. SARACOGLU, Oct. 16, 1975



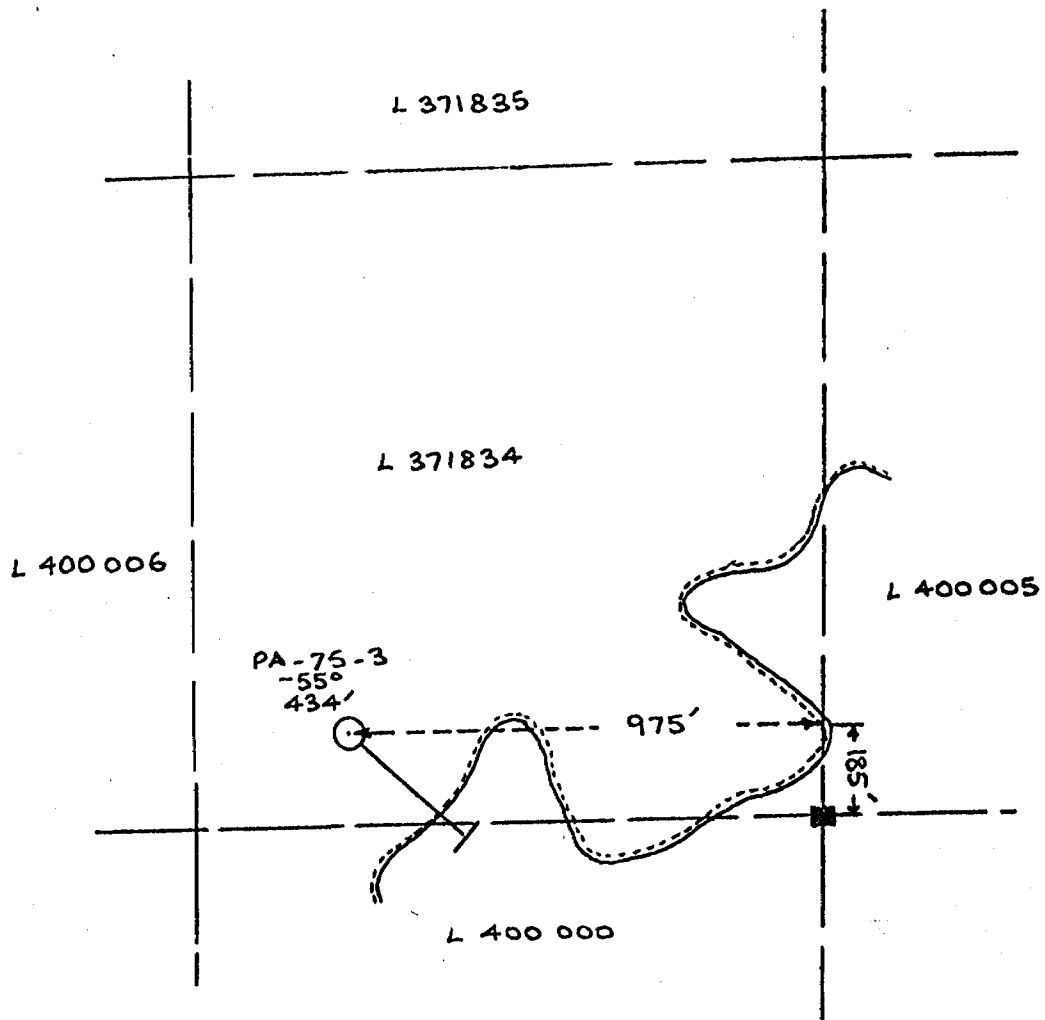
SCALE: 1" : 400'

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ABITIBI

SKETCH SHOWING THE LOCATION
OF DIAMOND DRILL HOLE PA-75-2

N. SARACOGLU, Oct. 16, 1975



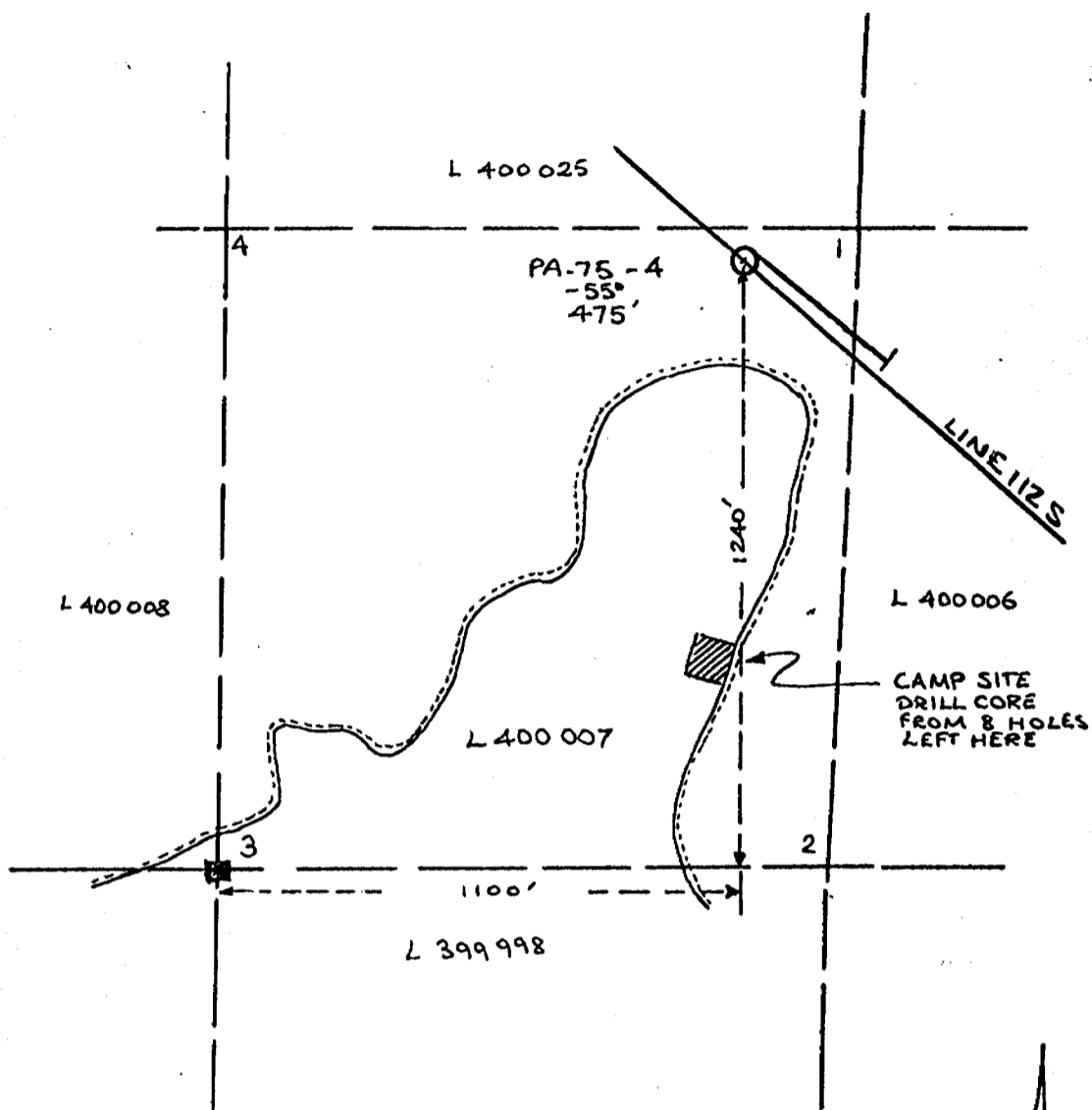
SCALE: 1" : 400'

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ABITIBI

SKETCH SHOWING THE LOCATION
OF DIAMOND DRILL HOLE PA-75-3

N. Saracoglu, Oct. 16, 1975

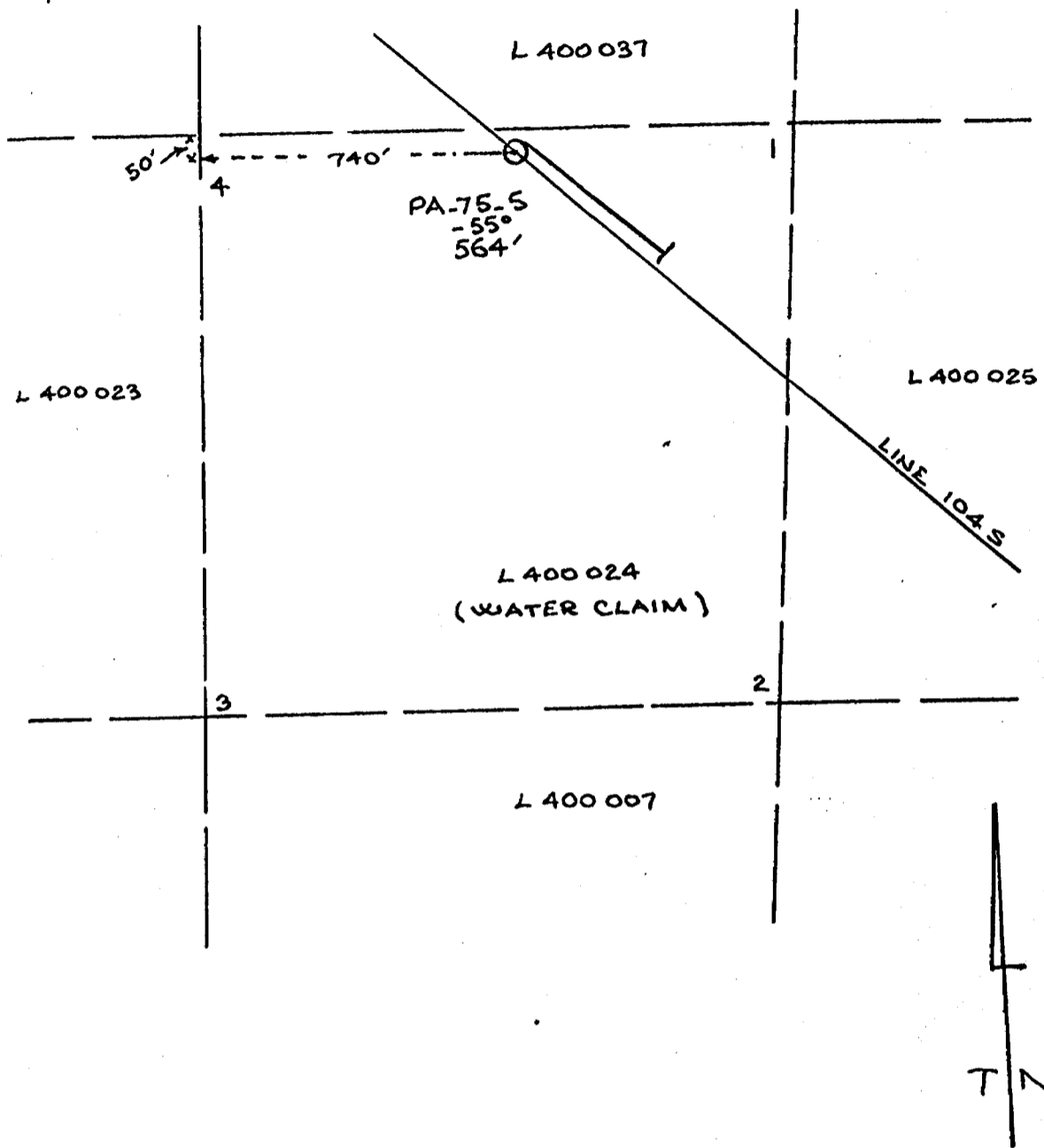


SCALE : 1" : 400'

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ABITIBI
SKETCH SHOWING THE LOCATION
OF DIAMOND DRILL HOLE PA-75-4

N. SARACOGLU Oct. 16, 1975



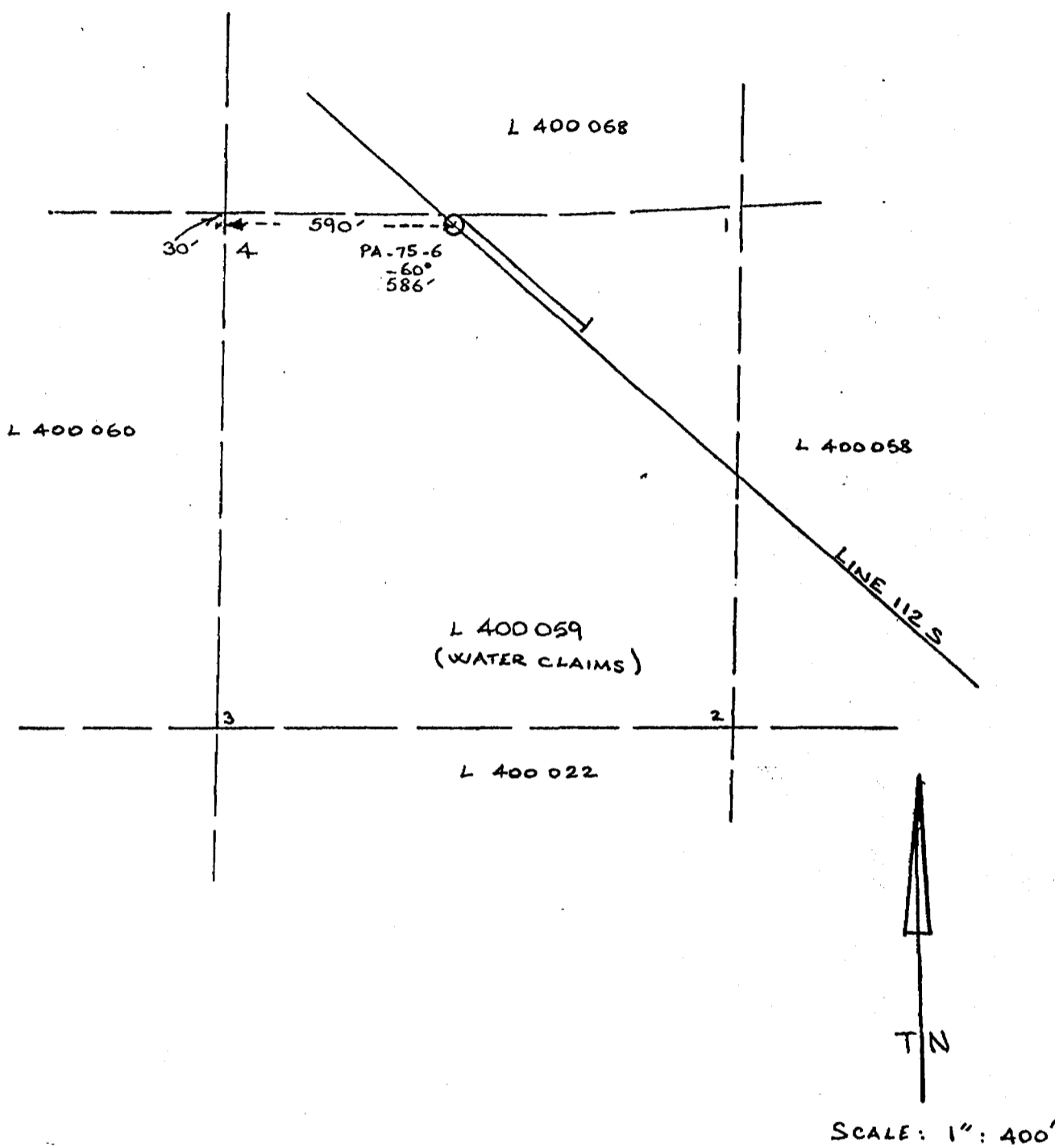
SCALE: 1" : 400'

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ABITIBI

SKETCH SHOWING THE LOCATION
OF DIAMOND DRILL HOLE PA-75-5

N. SARACOGLU Oct. 16, 1975

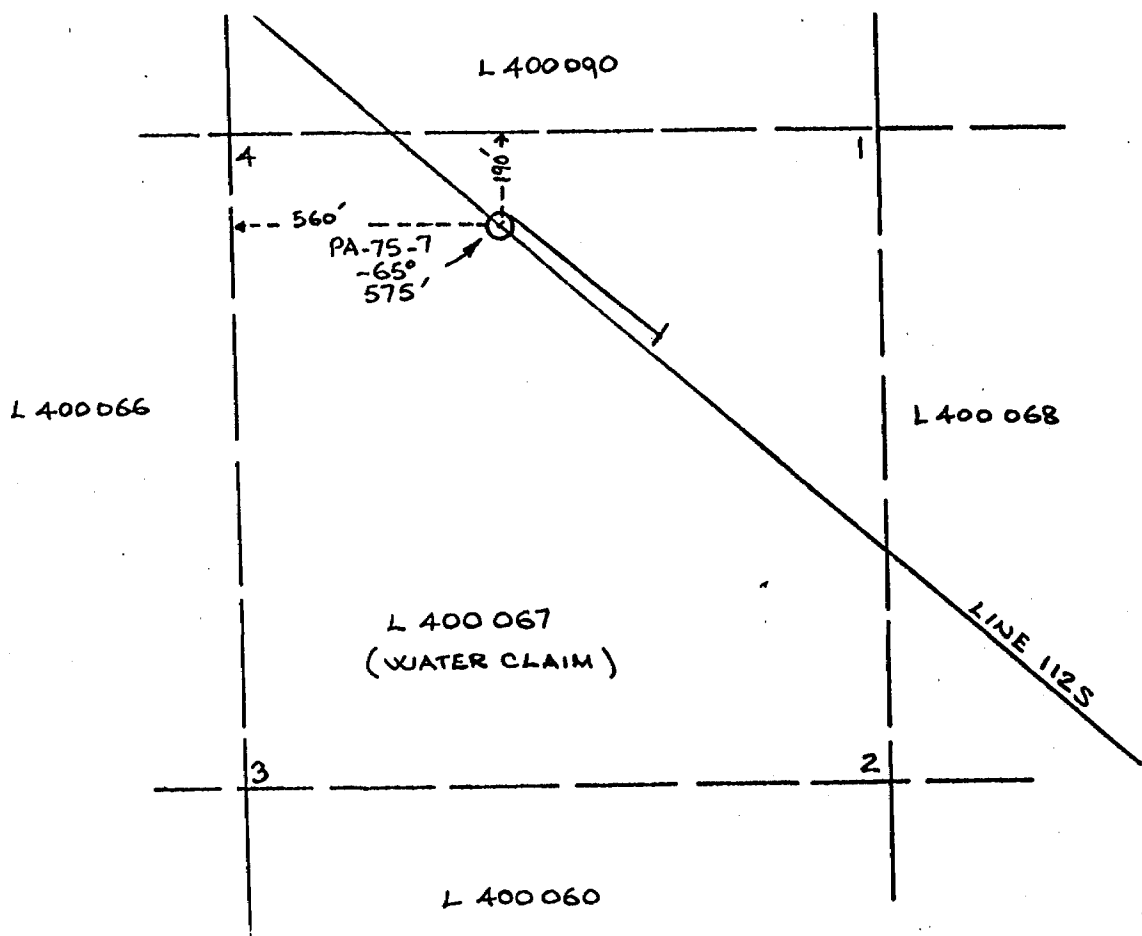


CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ABITIBI

SKETCH SHOWING THE LOCATION
OF DIAMOND DRILL HOLE PA-75-6

N. SARRCOGW, Oct. 16, 1975



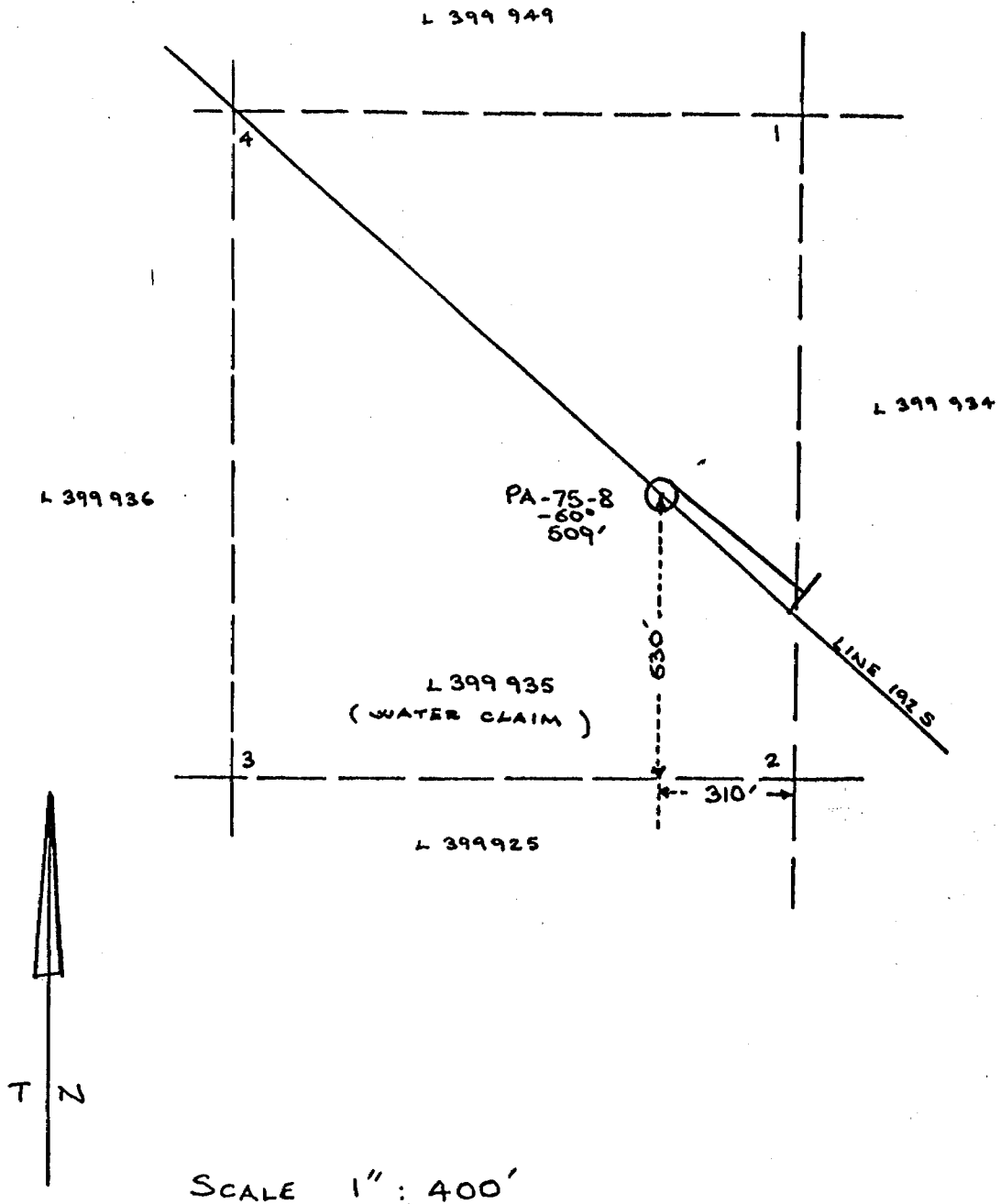
SCALE: 1" : 400'

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ABITIBI

SKETCH SHOWING THE LOCATION
OF DIAMOND DRILL HOLE PA-75-7

N. SARACOGLU Oct. 16, 1975



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ARITIBI
SKETCH SHOWING THE LOCATION
OF DIAMOND DRILL HOLE PA-75-8

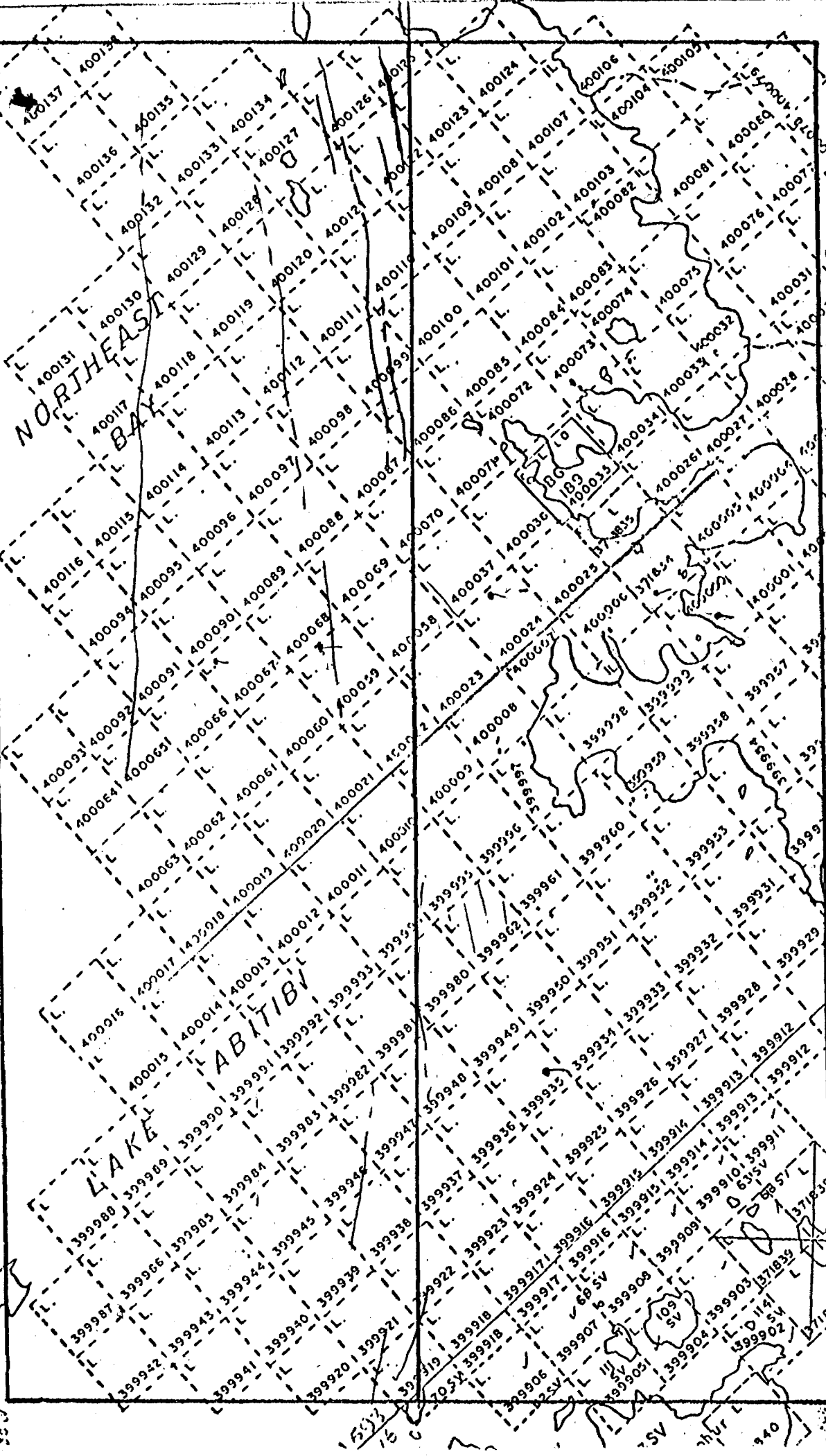
N. Saracoglu, Oct. 16, 1975

OPM map 2018

ICE BAY

NORTHEAST BAY

LAKE ABITIBI



CANADIAN OCCIDENTAL PETROLEUM LTD.

CLAIM MAP

FIGURE 2



32D13NW0026 13 STEELE

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LANDS ADMINISTRATION
BRANCH

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MINERALS DIVISION

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PROJECTS UNIT

OVERBURDEN DRILLING - 1974

DIAMOND DRILLING - 1975

PROJECT ABITIBI

Larder Lake Mining Division
N.T.S. Sheet No. 32D/13

By:
N. Saracoglu, P.Eng.

Duration of Work:

January 27 - April 11, 1974
and
January 29 - April 3, 1975



32D13NW0026 13 STEELE

020C

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ACCOMPANYING THE REPORT

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" 6 - " - DDH PA-75-3, " "	"
" 7 - " - DDH PA-75-4, " "	"
" 8 - " - DDH PA-75-5, " "	"
" 9 - " - DDH PA-75-6, " "	"
" 10 - " - DDH PA-75-7, " "	"
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1. SUMMARY

Project Abitibi area is situated in Northeast Bay region of Lake Abitibi and covers an area of some 8,080 acres.

Outcrops of rhyolitic and dacitic tuffs and fragmentals in the eastern parts of the area are succeeded by andesitic lavas and tuffs to the west. Despite its favourable geology for a volcanogenic-type massive sulphide mineralization, the area was not adequately explored in the past. A considerable thickness of glacial clays covers the bedrock and outcrops are scarce. Lake clays form conductive layers which eliminate the use of standard airborne electromagnetic methods.

Two hundred mining claims were staked by Canadian Occidental Petroleum Ltd. during January and February, 1974. Two claims were optioned from Mr. Ty Randa. A total of 114.5 line-miles of base lines and survey lines were established during the same period.

A Turam electromagnetic and a ground magnetic survey were executed during February and March, 1974. Several NE trending banded conductive zones, 700 feet to 4 miles long, were delineated. The magnetic picture obtained was very complex. Magnetic anomalies have a general strike parallel to the direction of the local magnetic trend and appear to correspond to magnetite-rich members of the volcano-sedimentary pile in this area.

Eight of the stronger conductors were tested with a programme of 38 overburden drill holes with an effective total of 2566 feet during March-April, 1974. Overburden samples were collected from the basal till resting on the suboutcrop. Heavy mineral fraction of the samples revealed the presence of pyrite in nearly all conductors tested. No other sulphide minerals were recognized. No graphite was seen in both heavy and light fractions of the samples. In diamond drill holes conductors were proven to be largely caused by graphite. The absence of graphite in overburden samples cannot be explained. Geochemical analyses of heavy and light fractions of the samples showed that copper and zinc anomalies are only slightly above normal. No significant copper or zinc anomalies were obtained. No coincidences were observed between above normal copper and zinc values in the heavy mineral concentrates and in the light fraction of the samples.

A programme of eight diamond drill holes was completed during February-March, 1975. The total footage drilled was 4,000 feet. Seven drill holes were sited on and around Line 112S to test significant Turam anomalies and to obtain as complete a geologic section as possible. The programme formed the first phase of a two-year drill programme and provided geological data on which to base the second phase of the programme.

An alternation of fine to medium grained andesitic lava, tuffs and graphitic slates were traversed in most of the

holes. Greywacke-type metasediments form the majority of the formations intersected in the most westerly hole. Interlayers of acidic tuffs and fragmentals were traversed only in the two most easterly holes. In each hole conductors were proven to correspond to graphitic slates with varying amounts of pyrite concentration. Information gained from the drilling suggests a subsidence basin younging to the west in which graphitic tuff and slate layers give rise to long formational conductors. The highest zinc (1860 ppm) and copper (0.22 percent) concentrations were obtained also in the most easterly drill hole in graphitic and pyritic tuffs interlayered within intermediate to acidic banded tuffs and fragmentals.

A strong conductor in Ty Randa claims was proven to be caused by extensive graphitic slates. The option on these two claims should be terminated.

Any additional drilling should test strong Turam conductors in the eastern parts of the area where highest copper-zinc concentration and acidic fragmentals were obtained in a drill hole. Conductive zones H4 and M are situated near the eastern boundaries of the property and should both be tested by a diamond drill hole.

One hundred mining claims in the western half of the property should be allowed to lapse. Assessment work credits from the diamond drilling programme should be applied to the remaining one hundred claims in the eastern half of the property to obtain an extension to February, 1977.

2. INTRODUCTION

Several volcanogenic-type massive sulphide deposits with important copper-zinc-silver and frequently gold concentrations are situated in the Chibougamau-Timmins volcanic belt. Recent discoveries in the belt are continuing to add new names to a list of important base metal mines of this type and are proving the importance and potential of the belt.

Because of its proven potential, the belt is one of the very extensively explored areas of eastern Canada. The least explored portions of the belt are areas covered with blankets of thick glacial lake clays forming conductive layers which eliminate the use of standard airborne electromagnetic survey methods.

Project Abitibi covers an area which, despite its favourable geology, could not be explored to any great extent due to the lack of outcrop and the thickness of clay cover.

A Turam electromagnetic survey was considered to provide adequate penetration to probe the bedrock below the blanket of clay.

Turam electromagnetic and ground magnetic surveys were carried out in February and March, 1974. Eight conductive horizons were tested in March and April, 1974, by 38 overburden drill holes and eight diamond drill holes with a total footage of 4000 feet were drilled in February and March, 1975, to test significant anomalies and to obtain a geological section along Line 112S.

This report describes in detail results obtained in overburden and diamond drilling programmes while mentioning briefly previous work carried out by others and line cutting, claim staking and geophysical surveys performed by Canadian Occidental Petroleum Ltd.

Drill logs for eight diamond drill holes are presented at the end of the report. Geochemical analyses, semi-quantitative analyses and assay results are in Appendix IV. Sections for individual drill holes are presented in Figures 4 to 11. A section along Line 112S is shown in Figure 12.

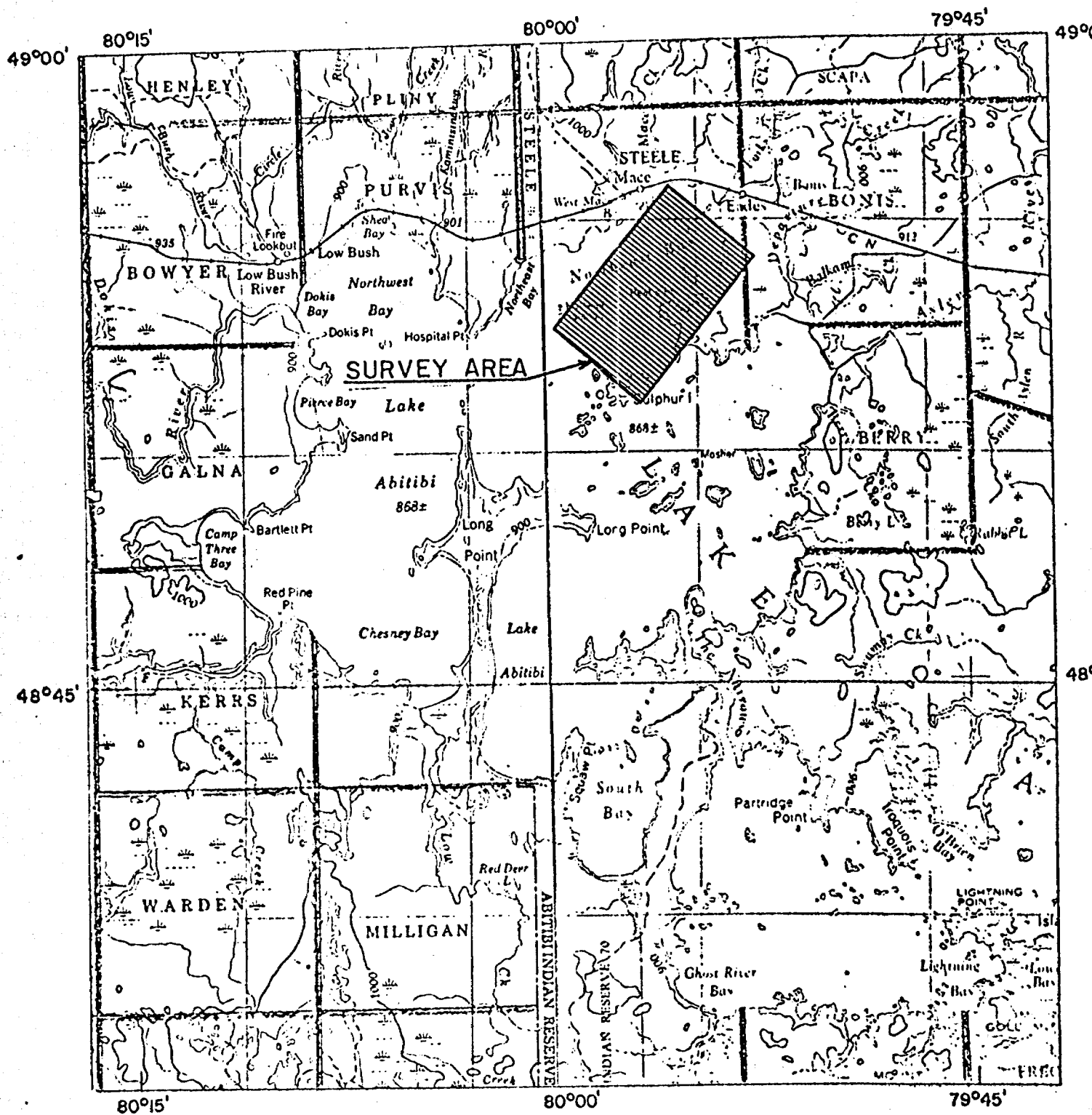
3. LOCATION AND ACCESS

Project Abitibi is located in the Northeast Bay area of Lake Abitibi in the District of Cochrane in the Province of Ontario (Figure 1).

The property comprises 202 mining claims covering an area of some 8080 acres situated in Steele Twp., Bonis Twp. and Sulphur Island, claim maps M 593, M 421 and M 416, in Larder Lake mining division. The claims are numbered as follows:

L371831-L371832	incl.	(optioned from Ty Randa)
L399902-L399962	"	(staked by the Company)
L399980-L400037	"	"
L400058-L400138	"	"

The centre of the property is at $79^{\circ}55'W$; $48^{\circ}53'N$.
It is situated on N.T.S. Sheet 32D/13.



LOCATION MAP

CANADIAN OCCIDENTAL PETROLEUM LIMITED
 NORTHEAST BAY AREA - LAKE ABITIBI, ONT.

Scale: 1 : 250,000

FIGURE 1

74-9705

Access to the property can be gained by:

- 1) aircraft from LaSarre air base, 30 air-miles to the ESE.
- 2) train from LaSarre to Eades whistle stop, one mile summer road from Eades to Northeast Bay.
- 3) vehicle from LaSarre to a point 43 miles from LaSarre on Abitibi Paper's all weather gravel road between St. Lambert and Cochrane, then a 5-mile summer road to Northeast Bay.

Approximately 80% of the property is covered by the waters of Lake Abitibi. The remaining 20% is on lands moderately wooded with spruce, birch, jackpine and poplar.

The average depth of water in Northeast Bay is 20 feet during the summer months and drops to 7 feet during the winter.

4. GEOLOGY

The geology of the area was mapped in 1959 by S.B. Lumbers (O.D.M. Map No. 2018).

Rock exposures are scarce, being confined to the shorelines of Northeast Bay.

The exposures along the west shores of Northeast Bay consist of early Precambrian metasediments (metagraywackes and argillites) while along the east shores of the bay they consist of early Precambrian metavolcanics (mostly andesitic tuffs, fine grained andesitic lavas, medium grained andesitic pillow lavas with interlayers of rhyolitic tuffs and fragmentals in the eastern parts of the property) cut by

Haileyburian basic and ultrabasic intrusives (diorite, pyroxenite, serpentinite). Narrow, barren quartz veins cut across the strike of the metavolcanics.

Formations strike in N-S and NE-SW directions and appear to be gently folded around NW-SE trending fold axes. Dips are generally to the northwest and range from 50° to 90° . Formations young also towards the northwest

Andesitic tuffs in a pit in claim No. L371835 contain slight disseminated chalcopyrite over a width of about 1.5 feet where these tuffs are cut by a barren quartz vein. Disseminated pyrite is visible in many exposures of andesitic and dacitic tuffs.

During the 1974 field season, exposures along the shorelines of Northeast Bay were examined and a careful investigation was carried out in areas where a previous geophysical survey established the presence of Turam conductors. In each instance conductive zones coincide with small bays devoid of exposures. Outcrops near such zones consist of tuffaceous rocks with some disseminated pyrite.

5. PREVIOUS WORK

West Hill Copper Mines Ltd. carried out horizontal loop E-M and ground magnetic surveys in the area. Four conductors were established ranging in strike length from 1500' to 5000'. Two of these conductors were tested by diamond drilling and were proven to correspond to graphitic

layers with pods of Py within acid fragmentals and tuffs in a drill hole in the eastcentral parts of the property and to graphite and pyrrhotite within andesitic volcanics in a drill hole in the west central parts of the property.

The area was prospected at several occasions for gold and copper. Prospecting pits can be seen on Sulphur Island and at Peat's Point.

6. WORK COMPLETED

6.1. Staking and Line Cutting

200 claims were staked by J. Alix Company for Canadian Occidental Petroleum Ltd. between January 27 and February 6, 1974.

A rectangular survey grid covering an area of 3.03 mi. x 4.84 mi. was established.

One base line and two tie lines, each 256,000' long were set out in a $222^{\circ}20'$ direction. 33 lines, each 16,000' long were turned off at 800' intervals from the base line. Survey stations were marked every 100 feet on the lines. The line cutting was completed, also by J. Alix Company, between January 28 and February 25, 1974.

6.2. Geophysical Surveys

Turam electromagnetic and ground magnetic surveys were executed by Scintrex Surveys Limited on behalf of Canadian Occidental Petroleum Limited.

A ground magnetometer survey was completed between

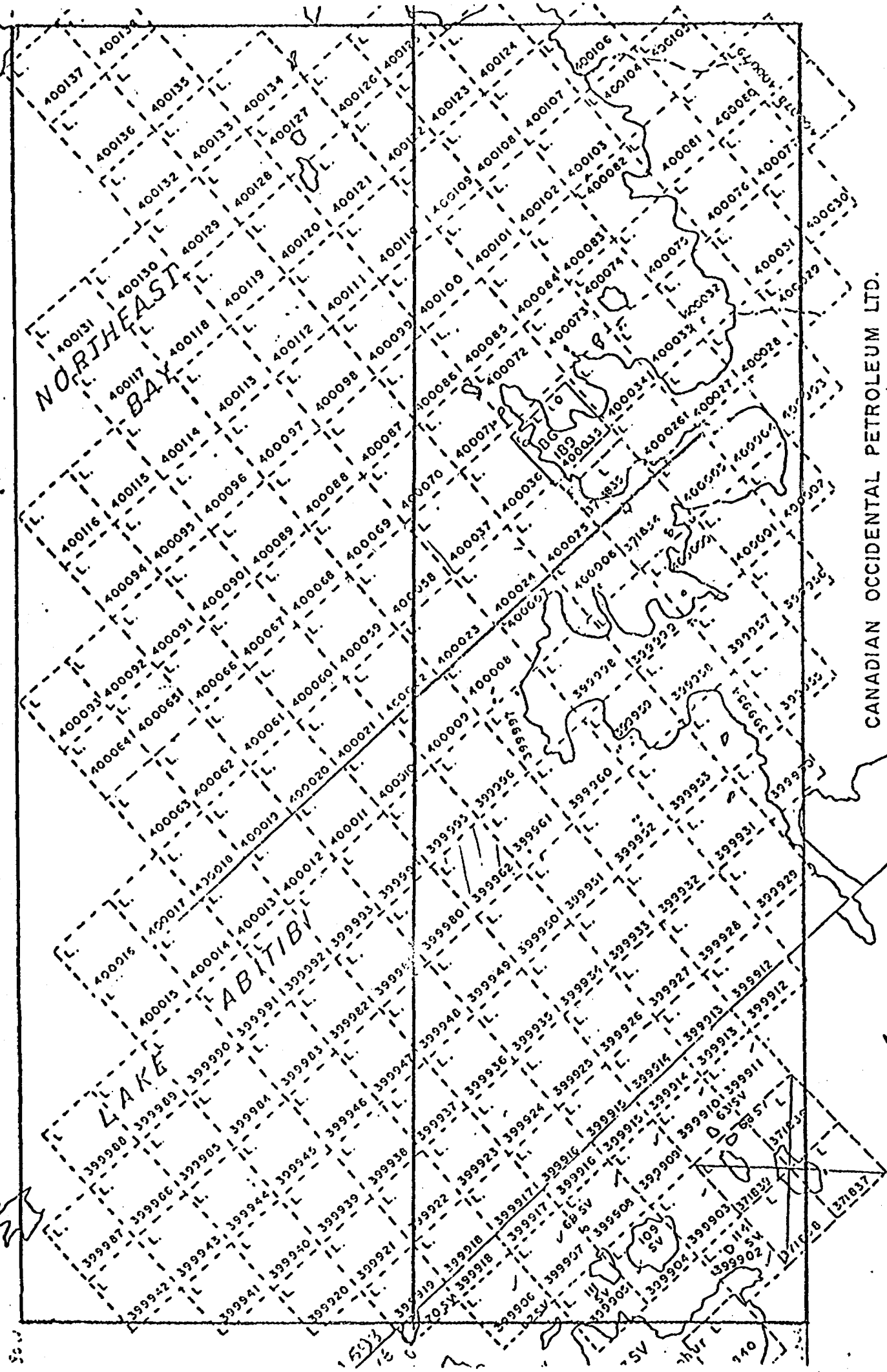
CHERRY BAY

NORTHEAST BAY

LAKE ABITIBI

CANADIAN OCCIDENTAL PETROLEUM LTD.

CLAIM MAP



February 9 and March 30, 1974. A total 105 line miles of survey was carried out using a Scintrex MF-2 Fluxgate Magnetometer measuring the vertical component of the earth's magnetic field. 5814 magnetic readings were taken.

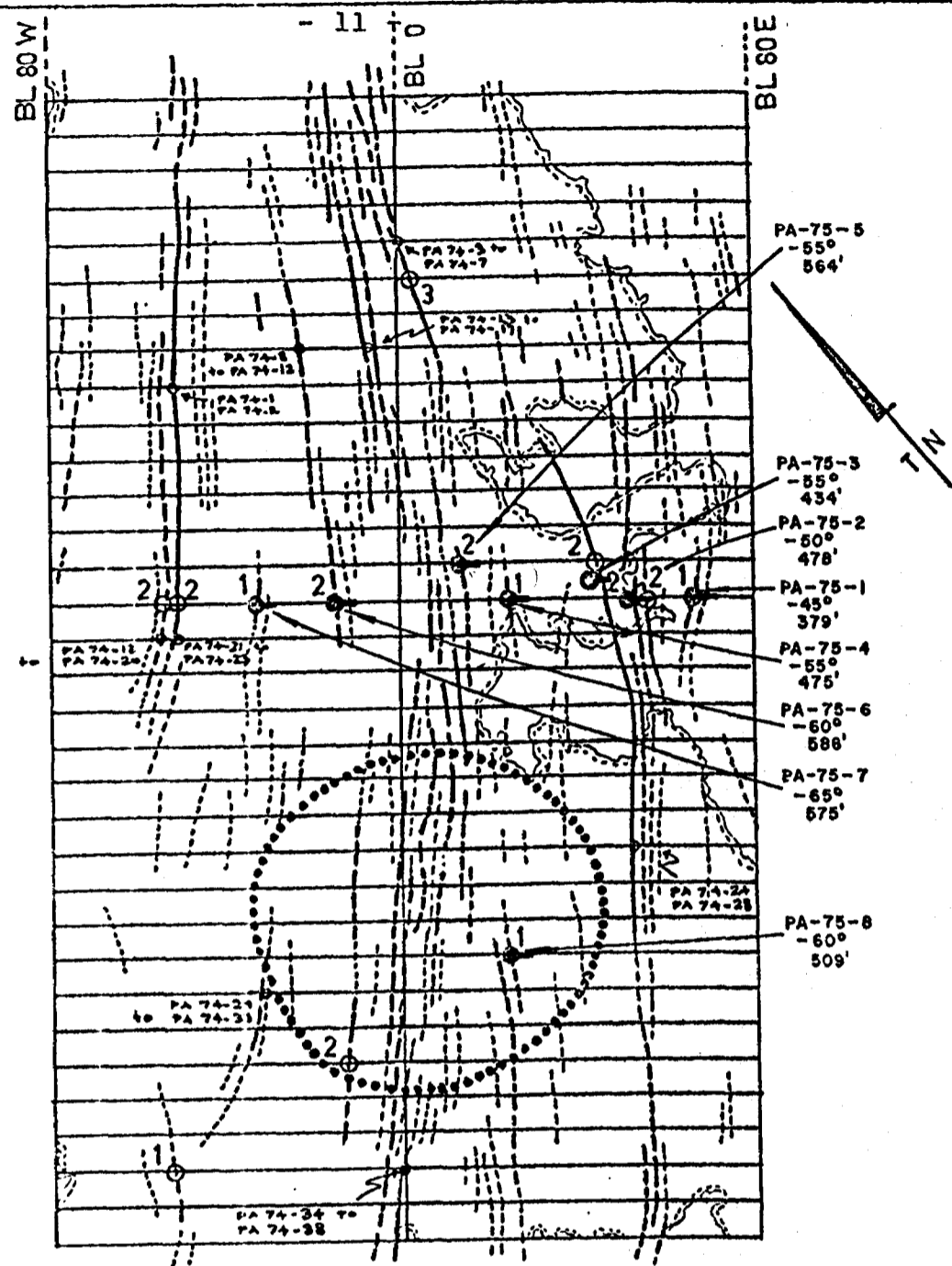
Survey results show several anomalous areas with magnetic relief varying from 200 gammas to 5000 gammas. The magnetic picture obtained is very complex. Anomalies trend in a general northeast direction which is also the direction of the local magnetic trend. They appear to reflect magnetite-rich members of the volcano-sedimentary pile in this area.

A Turam electromagnetic survey was performed between February 9 and March 23, 1974, using Scintrex SE-71 system. A frequency of 200 Hz was used over the entire grid. A check survey was conducted using 200, 400 and 800 Hz frequencies on a short section on Line 80A to elucidate the complex electromagnetic response obtained here with a 200 Hz frequency.

Several NE-trending conductors, ranging in length from 700 feet to 4 miles and consisting of a series of parallel bands of varying conductivity x width values, were outlined. Conductivity x width values as high as 120 mhos were obtained.

The results of the geophysical surveys were presented in contour and profile form in maps accompanying a report written by Jan Klein of Scintrex and dated June, 1974. This report has been filed with O.D.M. for assessment credits.

0 -
 8 S -
 16 S -
 24 S -
 32 S -
 40 S -
 48 S -
 56 S -
 64 S -
 72 S -
 80 S -
 88 S -
 96 S -
 104 S -
 112 S -
 120 S -
 128 S -
 136 S -
 144 S -
 152 S -
 160 S -
 168 S -
 176 S -
 184 S -
 192 S -
 200 S -
 208 S -
 216 S -
 224 S -
 232 S -
 240 S -
 248 S -
 256 S -



LEGEND :

TURAM CONDUCTORS

- STRONG
- - - MODERATE
- WEAK

DIAMOND DRILLING

- 2 O DIAMOND DRILL HOLE RECOMMENDED BY GEOSARCH, AND PRIORITY RATING
- ⊙ DIAMOND DRILL HOLE COMPLETED BY CANOXY DURING FEB-MARCH 1975

GRAVIMETRIC-MAGNETIC-TOPOGRAPHIC ANOMALY (ASSAD-FAVINI)



OVERBURDEN DRILLING

- LOCATION & NUMBERS OF OVERBURDEN DRILL HOLES

SCALE : 1 : 50,000

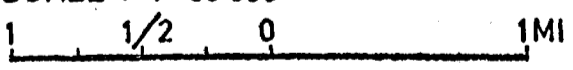


FIGURE 3

CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION

PROJECT ABITIBI
 NTS 32 D/13

PROGRESS PLAN
 AS OF APRIL 3, 1975

6.3 Overburden Drilling

Eight of the stronger conductors were chosen for testing by overburden drilling immediately after the completion of the Turam survey.

An overburden drilling programme was carried out by C.F. Gleeson and Associates Ltd. on behalf of Canadian Occidental Petroleum Ltd. during the period March 25-April 11, 1974. A total of 38 holes was completed. The effective total drilled was 2566 feet, without counting multiple trials in many holes (see Figure 3).

A Pionjar type light percussion drill and piston sampler was used.

Each selected target was tested by an average of 5 holes located along the survey lines. The first hole in each section was put down on the conductor axis. The remaining holes were sited every 35 feet in a down-ice direction in order to obtain an adequate coverage of metal dispersion halos emanating from probable metallic sources associated with the conductors.

Overburden samples were collected from the basal till resting on the suboutcrop.

The depth of the holes ranged between 11 feet and 95 feet. The thickness of the clay ranged between 6 and 77 feet. The average thickness of the clay was 42 feet. In most of the holes a sand layer is present between the clay and the basal till with grain sizes increasing with depth. The thickness of sand varies from 0 to 35'; with an average thickness of 15 feet. In three holes, pockets of

gravel were traversed within the sand layer.

A poorly developed basal till was intersected in 30 holes. The till is composed of medium grained sand with angular bedrock fragments. The thickness of the till ranged from 1 to 15 feet with an average thickness of 7 feet.

A heavy mineral fraction was obtained using tetrabromo-ethane. The heavy minerals were examined under a binocular microscope by C.F. Gleeson and an estimate was made of the mineralogical content of the samples. The light fraction was examined also for graphite and rock fragments. No graphite was noted in any of the samples. Fragments of chlorite-sericite schist were present in several holes sampling conductors in the east, west, north and southern portions of the grid.

Small quantities of pyrite were present in nearly all samples; 5% fresh pyrite was seen in sample PA 74-34. Traces of what appear to be bornite or azurite were seen in sample PA 74-1. The heavy and light fractions of the samples were geochemically analyzed for Cu, Zn and Ni.

Geochemical analyses of the heavy mineral concentrates showed that PA 74-1 (450 ppm), PA 74-2 (123 ppm), PA 74-31 (120 ppm) and PA 74-34 (238 ppm) contained above normal amounts of copper. In addition, zinc was high in PA 74-23 (1120 ppm) and PA 74-24 (393 ppm).

Geochemical analyses of the -80 mesh fraction of the samples showed that no coincidence exists between above normal Cu and Zn values in the heavy mineral concen-

trates and in the light fraction of the samples. The only significant above normal copper value was obtained in PA 74-10 (73 ppm as compared to a background value of 20 ppm). Zinc was anomalous in PA 74-10 (222 ppm) and PA 74-11 (98 ppm). The background zinc value was 45 ppm.

The results of the overburden drilling are tabulated below:

Overburden Hole No.	Depth to Outcrop (feet)	Organic & water (feet)	Clay (feet)	Silt (feet)	Medium Sand (feet)	Basal Sand (feet)	Basal Till (feet)	GEOCHEMICAL ANALYSES						
								(values in ppm)						
								H.M.S., Rock -100			-80 Fraction			
Cu	Zn	Ni	Cu	Zn	Ni									
PA-74-1	69	4	26	20	10	9	-	450	184	33	9	13	12	
2	72	10	15	15	20	12	-	123	120	34	14	40	24	
3	94.7	3	47	20	10	14.7	-	74	58	52	7	9	7	
4	84	3	47	10	10	14	-	40	49	45	6	12	8	
5	85	3	47	-	20	15	-	40	50	38	7	12	7	
6	73	3	47	-	10	13	-	43	35	40	8	19	10	
7	82.8	3	47	-	30	2.8	-	49	31	45	8	9	7	
8	80.7	3	47	-	20	10.7	-	38	37	38	8	7	5	
9	76.3	3	47	-	20	6.3	-	35	29	32	11	19	12	
10	70.8	3	47	-	15	-	5.8	I.S. (insufficient sample)			73	222	46	
11	42	3	22	-	15	2	-	I.S.			38	98	48	
12	23.5	3	12	-	5	-	3.5	55	35	42	27	58	32	
13	67	3	47	-	15	2	-	48	36	40	19	39	28	
14	70	3	42	-	20	5	-	49	36	40	7	10	8	
15	57	3	37	-	8	9	-	29	37	37	28	69	39	
16	73	3	42	-	25	3	-	50	23	29	7	8	7	
17	73.5	3	42	-	25	3.5	-	42	28	28	8	11	12	
18	81.7	3	47	-	20	11.7	-	46	30	35	16	32	22	
19	75.3	3	47	10	10	5.3	-	21	30	30	6	5	6	
20	76.7	3	47	20	-	6.7	-	46	32	36	8	16	13	
21	75.3	3	47	20	-	5.3	-	I.S.			29	74	45	
22	85.7	3	47	20	-	15.7	-	29	50	45	32	83	43	
23	80.8	3	47	20	-	10.8	-	35	1120	30	11	19	12	
24	69	3	42	15	-	9	-	69	393	17	21	54	30	
25	70	3	47	10	-	10	-	40	27	45	8	12	11	

Overburden Hole No.	Depth to Outcrop (feet)	Organic & water (feet)	Clay (feet)	Silt (feet)	Medium Sand (feet)	Basal Sand (feet)	Basal Till (feet)	GEOCHEMICAL ANALYSES							
								(values in ppm)							
								H.M.S., Rock -100			-80 Fraction				
Cu	Zn	Ni	Cu	Zn	Ni										
PA-74-26	74.5	3	47	10	-	14.5	-	26	30	32	8	11	10		
27	69	3	47	10	-	9	-	52	45	37	15	26	20		
28	76	3	47	20	-	6	-	34	30	31	19	39	27		
29	83	3	77	-	-	-	3	I.S.			31	79	41		
30	88	3	77	-	-	-	8	20	30	30	22	59	30		
31	92	3	77	10	-	2	-	120	40	30	27	67	32		
32	90	3	77	-	-	10	-	I.S.			31	67	38		
33	76	3	67	-	-	6	-	I.S.			31	74	43		
34	41.5	3	22	10	-	6.5	-	238	48	25	45	65	39		
35	30	3	17	5	-	5	I.S.	I.S.			39	90	50		
36	14.5	3	7	3	-	-	-	I.S.			32	69	38		
37	11	2	6	2	-	1	-	30	27	32	8	15	10		
38	12	4	6	-	-	2	-	30	37	14	28	95	34		

6.4. Diamond Drilling

Considering the number of Turam conductors and the highly disturbed nature of the magnetic responses, it was decided to select conductors for testing by diamond drilling so as to give as complete a geologic section as possible. Seven drill sites along and near Line 112S were chosen for this purpose. An eighth hole was planned as a first priority conductor with a strong amplitude and a coincident magnetic anomaly of 105 gammas.

Base line O and survey lines 104S, 112S and 192S were re-established using survey posts marked along shorelines.

N. Saracoglu and M. Hodgson were involved in the drilling programme.

A total of 4,000 feet of wireline diamond drilling was completed in eight holes ranging in depth from 379 to 586 feet. Drilling was performed by Hosking Diamond Drilling Company Ltd. of Rouyn, P.Q., between January 29-April 3, 1975.

A 5-mile-long summer road leading from Abitibi Paper Company's La Reine-Cochrane private road to Northeast Bay was ploughed and maintained during the programme by Abitibi Paper Company. Equipment and supplies were brought in by road from Rouyn and La Sarre.

A drill camp was established near Station 28E on Line 120S.

Three drill crews were involved in the programme each working an eight-hour shift. Operations were continuous 7 days per week.

The names of the Hosking Drilling personnel involved in the programme are included in Appendix III. The Hosking personnel were reasonably efficient, very cooperative and hard-working. An excellent core recovery was obtained in each hole.

In two holes, PA-75-3A and PA-75-7, the overburden was very thick and troublesome. PA-75-3A was lost in the overburden and PA-75-7 could only traverse the overburden on a second try using a steeper inclination. The vertical thickness of overburden ranged from 15 to 156 feet.

Only two holes were on land. They were within 1000 feet from water.

Because of very cold temperatures and mechanical breakdowns, the progress was slow during the first one-third of the programme.

6.4.1. Treatment of the Core

After measuring for core recovery, the core was carefully examined. The lithology and metal content were recorded on the drill logs.

The core with sulphide mineralization was split and assayed for Cu, Zn and, in many instances, Au. Sections with a high concentration of sulphides from five holes were spectrographically tested for 30 elements. The entire core from the eight holes was chipsampled and composited in 10-foot sections. These samples were geochemically analysed for Cu and Zn.

After sampling and logging the core, boxes were piled up and left at the camp site.

6.4.2. Presentation of the Results

The locations of the holes are shown on Figure 3.

A section of each hole shows the lithology together with geochemical distribution of Cu and Zn along the hole. A magnetic profile as well as the field strength ratio and phase angle of the conductors are also shown in profile form. Assay results are added at the appropriate places on the sections.

The borehole core logs are at the end of the Report. Assay and analyses result sheets from Bondar-Clegg & Company Ltd. are in Appendix IV.

6.4.3. Drilling Results

A summary of the results of each drill hole is given in the following paragraphs. (All holes were drilled at a bearing of 132°).

6.4.3.1. Drill Hole PA-75-1 (Figure 4)

This hole was collared at L 112S; 64+80E and drilled at -45° to intersect a conductive zone between stations 67+00E and 68+00E, 250 feet vertically below surface.

Because of a coincident magnetic anomaly of 3000 gammas above background, the Turam conductor was given "first priority" rating.

Acidic to intermediate fragmentals and tuffs and basic to intermediate tuffs and fine grained lavas represent most of the core. Graphitic and pyritic tuffs with overall 7% Py and about 1% pyrrhotite were intersected between 186'-197.5'. This section corresponds to the Turam conductor at surface. Between 218'-261' = amphibole-garnet-magnetite

schist, representing an iron formation. This section corresponds to high magnetic anomaly measured at surface. A total of 27 core-chip samples were geochemically analysed and 2 split samples were assayed for Cu and Zn. Geochemical values for copper range between 11 and 85 ppm Cu. Geochemical values for zinc range between 44 and 630 ppm zinc with three isolated values of 1500, 1740 and 1860 ppm Zn in sheared dacitic fragmentals and tuffs. Assay results for a 5-foot section in graphitic and pyritic tuffs indicated 0.22% Cu and 0.05% Zn. This copper value was the highest assay value obtained for all core samples assayed to date.

The conductor in the hole was 125 feet vertically below surface.

Core angle measurements indicate a general westerly dip.

The final depth of the hole was 379'.

The hole flattened considerably. An acid test at the end of the hole indicated an inclination of only -24° .

6.4.3.2. Drill Hole PA-75-2 (Figure 5)

This hole was collared at L 112S; 52+75E and was drilled at -50° to intersect a zone of multiple conductors between stations 53E and 57E, some 250 feet vertically below

Fine grained andesitic and dacitic lavas and tuffs and an extensive zone of graphitic slates form the main rock types intersected in the hole. A felsic fragmental was traversed between 403'-427'. The amount of graphite varies in the slates between 119 and 337 feet, several sections are very rich in graphite, some short (average 6" thick) sections

are composed of massive graphite. The zone of graphitic slate corresponds to the conductive zone at surface.

Pyrite occurs in trace amount throughout the drill core.

41 core-chip samples were taken. Geochemical analyses indicate copper values ranging between 36 and 262 ppm copper with one value of 527 ppm copper in a quartz-veined 10-foot section. Zinc values range between 57 and 750 ppm Zn with two isolated values of 1050 and 1160 ppm Zn. One split sample was assayed for copper and zinc. Another split sample was assayed for gold. Results for all metals were "trace".

6.4.3.3. Drill Hole PA-75-3 (Figure 6)

This hole was collared at L 108S; 44+00E to test a strong conductor at 46+50E. It was drilled at -55° to intersect the conductor 250 feet vertically below surface.

Andesitic lavas with tuffaceous interlayers were intersected throughout the core.

Only traces of pyrite and pyrrhotite and very minor specks of chalcopyrite were seen.

A 13-foot section of massive graphite and six 3" to 1.5-foot interlayers of graphitic tuff explain the conductor.

33 core-chip samples were geochemically analysed. Copper values ranged between 53 and 390 ppm. Zinc values range between 44 and 225 ppm. A fourteen-foot-wide quartz vein was assayed for gold. "Trace" gold was indicated in 4 split core samples.

The hole was stopped at a final depth of 434'.

Fine to medium grained andesitic lavas were intersected throughout the hole. Three interlayers of massive graphite ranging in thickness from 1 to 4 feet and containing from 1 to 20 percent pyrite correspond to the conductive zone.

45 core-chip samples were geochemically analysed for copper and zinc. Copper values range between 42 and 364 ppm. Zinc values range between 64 and 138 ppm. Five split samples were assayed for gold. "Trace" gold contents were indicated. Two split samples were assayed for copper and zinc. 0.01% and 0.04% copper and 0.01% and 0.03% zinc were obtained.

The hole was stopped at 564 feet.

The conductors were intersected about 300 feet vertically below the surface.

Indicated dips of the formations were to the west.

6.4.3.6 Drill Hole PA-76-6 (Figure 9)

This hole was collared at L112S; 17+80W and was drilled at -60° to intersect a conductive zone at 15+00W some 300 feet vertically below surface.

Andesitic lavas and tuffs with interlayers of graphitic slates and tuffs were intersected to 538'. From this depth to the end of the hole (586') a magnetite-rich, massive diorite (or gabbro?) was traversed. Turam and magnetic anomalies were explained.

The conductor was intersected 280 feet vertically below surface.

6.4.3.4. Drill Hole PA-75-4 (Figure 7)

The hole was collared at L 112S; 23+15E and was drilled at -55° to intersect same 250' vertically below surface a "first priority" Turam conductor with a coincident magnetic anomaly of 295 gammas above background between 25+00E and 26+00E.

Andesitic lavas intruded by a dioritic dyke represent most of the core. Two 23 and 57-foot sections of graphitic tuffs correspond to the conductor. A highly magnetic iron formation accompanies one of these sections. A magnetic anomaly at surface corresponds to this formation.

Traces of pyrrhotite and pyrite were intersected throughout the core. Specks of chalcopyrite are present in quartz and carbonate stringers.

45 core-chip samples were collected. Geochemical results range between 8 and 316 ppm Cu and 45 and 610 ppm Zn. Six split core samples were assayed for gold. Results were all "trace".

The hole was stopped at a final depth of 475'.

The conductor was intersected 150 feet vertically below surface.

Indicated dips of formations were all to the west.

6.4.3.5. Drill Hole PA-75-5 (Figure 8)

This hole was collared at L104S; 11+80E and was drilled at -55° to intersect a conductor located between 13+00E and 15+00E, some 300 feet vertically below surface.

Trace to 2 percent pyrrhotite + pyrite are present in several sections of the core.

48 core-chip samples were geochemically analysed for copper and zinc. Copper values range between 4 and 383 ppm and zinc values range between 60 and 520 ppm. Three samples in graphite-rich tuffs gave 1180, 1200 and 3310 ppm zinc. Eight split samples were assayed for gold and returned "nil" to "trace" gold. Three split core samples were assayed for copper and zinc and returned 0.0. to 0.02 percent copper and 0.05 to 0.08 percent zinc.

Conductors were intersected around 350 feet vertically below surface.

Indicated dips were to the west.

6.4.3.7. Drill Hole PA-75-7 (Figure 10)

This hole was collared at L 112S; 35+75W and was drilled at -65° to intersect a weak conductor between 32+00W and 33+00W some 300 feet vertically below surface.

Greywacke-type metasediments with phyllitic interlayers were traversed. Andesitic tuffs and lavas are interlayered within the above formations. A one-foot graphitic tuff with concretions of pyrite corresponds to a weak EM anomaly at the surface.

Forty core-chip samples were geochemically analysed for copper and zinc. Copper values ranged between 24 and 205 ppm copper with one isolated value of 920 ppm copper in a section of andesitic lava with one bleb of chalcopyrite.

Zinc analyses ranged from 62 to 167 ppm zinc with one isolated zinc value of 266 ppm. A one-foot split core sample from the conductor was assayed for gold, zinc and copper. "Nil" gold, 0.03 percent copper and 0.15 percent zinc were obtained.

The hole was stopped at 575'.

The conductor was intersected 300 feet vertically below surface.

Indicated dips were variable from near vertical to steeply east and steeply west.

6.4.3.8. Drill Hole PA-75-8 (Figure 11)

This hole was collared at L 192S; 21+80E and was drilled at -60° to intersect some 300 feet vertically below surface a "first priority" rated strong conductor with a coincident magnetic anomaly of 240 gammas above background situated between 23+00E and 25+00E.

Andesitic lavas and tuffs were intersected throughout the hole. There are numerous 1 to 8-foot inter-layers of massive graphite between 190 and 425 feet. A strong conductive zone at the surface corresponds to these sections. Pyrrhotite is present in trace amounts in andesitic tuffs and concentrations of up to 5 percent pyrrhotite were seen in graphitic sections. A magnetic anomaly at the surface appears to correspond to pyrrhotite concentrations. 43 core-chip samples were geochemically analysed for copper and zinc. Copper values ranged from 50 to 227 ppm Cu. Zinc values vary between 44 and 331 ppm Zn.

Three split core samples were assayed for copper and zinc. Copper values were trace to 0.01 percent and zinc values were 0.01 to 0.03 percent. Four core samples were assayed for gold and returned "nil" to "trace" gold.

One section with the highest sulphide concentration from drill holes PA-75-1, PA-75-2, PA-75-4, PA-75-5 and PA-75-8 was semi-quantitatively analysed for 30 elements. No concentration of major trace elements was obtained.

An upper amphibolite facies of metamorphism was observed in the drill cores.

7. CONCLUSIONS AND RECOMMENDATIONS

The diamond drilling programme successfully tested Turam and magnetic anomalies while providing further geological information along a section on Line 112S (see Figure 12).

Formations intersected consist mostly of basic tuffs and fine grained lavas. The only acidic rocks encountered were interlayers of rhyolitic to dacitic tuffs and fragmentals in diamond drill holes PA-75-1 and PA-75-2, the most easterly two holes of the section. Drill hole PA-75-7, at the west end of the section consisted mostly of greywackes with narrow interlayers of mafic volcanic rocks, suggesting that formations to the west of this drill

hole consist mainly of greywackes.

Conductors were proven to be associated with graphitic tuffs, slates and massive graphite bands with varying amounts of pyrite and pyrrhotite. Magnetic anomalies were associated with magnetite-rich chlorite-garnet schist within tuffaceous horizons (iron formations).

Results from our recent drill programme together with geological maps published by O.D.M. and logs of previous diamond drilling indicate that the Project Abitibi area covers portion of a subsidence basin in which fine grained andesitic lavas alternate with andesitic tuffs and graphitic shales topped with a thick sequence of metasediments to the west of drill hole PA-75-6. Acidic tuffs and fragmentals with small to medium fragments occur as interlayers towards the bottom of the basin (eastern parts of the project area). No rhyolitic flows or breccias were intersected in the drill holes. Late mafic and ultramafic intrusives and quartz and carbonate veins can be observed in outcrops and in some drill core. The only visible specks of chalcopyrite are found in carbonate stringers.

The large number and considerable strike length of the conductors suggest that at least the major portions of these correspond to formational conductive material of a type similar to that found in the drill holes.

The highest copper value was 0.22 percent and came from a 5-foot section in a 12-foot interlayer of graphitic and pyritic tuff within intermediate to acidic banded tuffs and fragmentals in drill hole PA-75-1. The

sulphide amount in the pyritic tuff ranged between 2 to 30 percent.

The highest zinc values were also obtained in drill hole PA-75-1 and ranged between 1500 and 1860 ppm in three 10-foot sections in acidic to intermediate tuffs and fragmentals. High zinc geochemical values in other holes were sporadic and associated with pyrite-pyrrhotite mineralization.

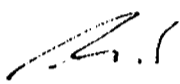
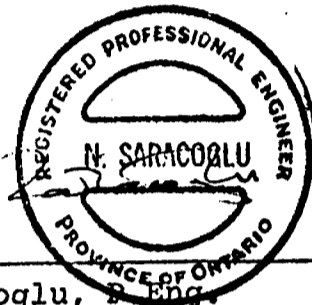
Geological and geochemical results from the drilling programme suggest that any additional drilling should be directed to the testing of Turam conductors to the east or along the strike of the conductor tested by drill hole PA-75-1. Conductive zones M and H4 are recommended for further testing by diamond drilling. A 500' hole collared at L 112S; 74E and drilled grid east at -45° will adequately test a moderate Turam conductor with a flanking magnetic anomaly in conductive zone M. Another hole, about 550 feet, should be collared at L 72S; 57+50E and drilled grid east at -45° to test a short, moderate to strong Turam anomaly (Zone H4).

A strong conductor in Ty Randa claims was tested with drill hole PA-75-3 and was proven to be caused by an extensive zone of graphitic slates. It is recommended that the option on these two claims be terminated.

It is recommended that a total of 100 claims in the east half of the group be kept and the credit obtained by

filing the drilling work be applied to these in order to obtain an extension to February 1977.

Respectfully submitted,



N. Saracoglu, P. Eng.

June 5, 1975

TORONTO

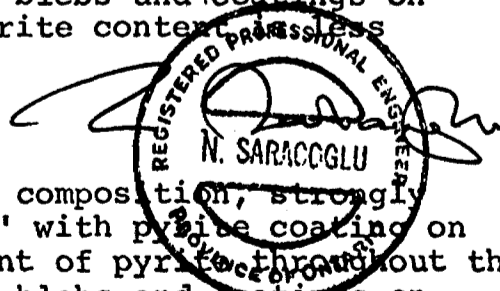
-30-
CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

DIAMOND DRILL RECORD

Claims No. L399956
 LOCATION L112S, 64+80E DIRECTION 132° DIP -45° HOLE No. PA75-1
 LOGGED BY N. Saracoglu CASING NW:40', AW:96' SHEET No. 1
 STARTED February 3, 1975 CORE SIZE AQ CORRECTED TESTS 379': -24°
 FINISHED February 8, 1975

PROPERTY Project Abitibi

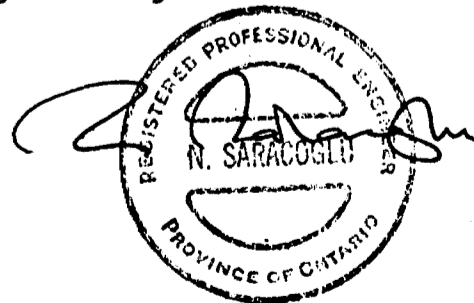
FROM	TO	Core Angle	DESCRIPTION
0'	96'		<u>Overburden</u> Clay, sand and gravel. Boulders of gabbro at 44'.
96'	112'	52°	<u>Intermediate Fragmentals</u> with several (<1') sections of tuff. Fragments strongly stretched. Fragment size 4 mm. 1/4", faulted aplite veinlet at 97'. 20° 1/2' aplite dyke at 104', cuts the core at 20°. Occasional blebs and disseminated pyrite, only in trace amount. Badly broken over 3"-6" sections at 103', 108' and 111'.
112'	149'	55° to 60° 20°	<u>Intermediate to Acidic Banded Tuffs</u> Dacitic to rhyodacitic tuffs with occasional short (<1') interlayers of mafic tuffs. Banded at 55°-60°. Predominant shearing at 20° to the core axis. Badly broken between 115'-123', at 125', 132' and between 147'-149'. 7" quartz-pegmatite vein at 127'. Aplite veinlets between 131'-133'. 1' quartz-pegmatite vein at 135'. Traces of pyrite as dissemination and coating on joint and shear planes.
149'	170'		<u>Intermediate Fragmentals and Tuffs</u> Some fragments are up to 1/4" thick. The rock is highly sheared and fragments are strongly stretched. Pyrite occurs throughout the rock as very fine dissemination, stringers along bedding and shear planes, blebs and coatings on joint planes. Overall pyrite content less than 1%.
170'	186'	55°	<u>Intermediate Tuffs</u> Poorly bedded, dacitic in composition, strongly sheared and broken at 173' with pyrite coating on shear planes. Trace amount of pyrite throughout the section as dissemination, blebs and coatings on joint planes. 1/8" thick stringers of pyrite near the lower contact.



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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION L112S, 64+80E DIRECTION 132° DIP -45° HOLE No. PA-75-1
N. Saracoglu
 LOGGED BY M. Hodgson CASING NW: 40', AW: 96' SHEET No. 2
 STARTED Feb. 3, 1975 CORE SIZE A0 CORRECTED TESTS 379': -24°
 FINISHED Feb. 8, 1975
 PROPERTY Project Abitibi

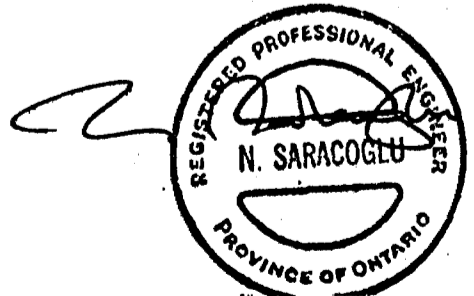
FROM	TO	Core Angle	DESCRIPTION
186'	197.5'	57°	<p><u>Graphitic and Pyritic Tuffs</u></p> <p>with sections (up to 5" thick) of massive pyrite with some pyrrhotite. Some mafic minerals in the matrix. Abundant disseminated magnetite. A few small fragments.</p> <p><u>186'-187'</u> = 30% pyrite + some pyrrhotite in massive form, stringers and blebs. Sample No. = 27426 = semi-quantitative analysis for 32 elements.</p> <p><u>187'-192'</u> = 2-3% pyrite occurring as dissemination along layers and blebs. Massive graphite between 191'-192'. One grain of sphalerite (?) Sample No. 27427 - assays for Cu and Zn.</p> <p><u>192'-197.5'</u> = Overall 10% pyrite occurring as stringers, dissemination along layers and blebs. One grain of chalcopyrite (?). Sample No. 27428 - assays for Cu and Zn.</p> <p><u>THIS SECTION CORRESPONDS TO THE TURAM CONDUCTOR</u></p>
197.5'	218'	55°	<p><u>Dacitic and Andesitic Tuffs and Fragmentals</u></p> <p>- very fine to fine grained poor to moderately banded tuffs with up to 2' long interlayers of highly stretched leucocratic fragments.</p> <p>- <u>202'-212'</u> = abundant fragments. Occasional basic interlayers.</p> <p>- Traces of pyrite along shears and some very thin stringers.</p> <p>- Zone of transition around 218': alternating layers of andesitic tuffs and magnetite-garnet-hornblende schist (iron formation).</p>



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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. PA-75-1
 LOGGED BY _____ CASING _____ SHEET No. 3
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	Core Angle	DESCRIPTION
218'	247'	54° to 57°	<p>(IRON FORMATION) <u>Magnetite-Hornblende-Garnet schist</u></p> <ul style="list-style-type: none"> - Very finely disseminated magnetite and fine hornblende crystals in the matrix. Abundant garnet crystals (up to 4 mm.) giving to the rock a porphyritic appearance. - Traces of pyrite along shears throughout the section. - Very rare grains of arsenopyrite and sphalerite (.) <p><u>THIS SECTION APPEARS TO REPRESENT AN IRON FORMATION, VERY RICH IN MAGNETITE AND CORRESPONDING TO HIGH MAGNETIC ANOMALIES RECORDED AT SURFACE.</u></p>
247'	261'		<p><u>Zone of Transition between Iron Formation and Intermediate to Basic Fragmentals</u></p> <ul style="list-style-type: none"> - Still very magnetite and mafic-rich, but increasing amount of feldspars and occasional narrow sections of fragmentals. - Carbonate as joint coating and fracture filling. - Traces of pyrite throughout occurring as dissemination and very thin veinlets. - Badly broken at 258' and 259'.
261'	285'		<p><u>Intermediate to Mafic Fragmentals</u></p> <ul style="list-style-type: none"> - Acidic fragments in a basic matrix. Fragments up to 1½" thick, strongly stretched. - Magnetic. - Trace to 1% pyrite as dissemination, stringers and coating on shear planes. - 2" to 1' wide broken zones at 263' and 275'.



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. PA-75-1
 LOGGED BY _____ CASING _____ SHEET No. 4
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	Core Angle	DESCRIPTION
285'	316.5'		<u>Andesitic Tuffs</u> With narrow (3-4 mm.) interlayers of chert. Practically no sulphides.
316.5'	322		<u>Fine Grained Gabbroic Dyke</u> - with a tendency to an interstitial, diabasic texture. - chilled upper and lower contacts. - Little magnetite. - Traces of disseminated pyrite. - Carbonate filling in fractures (about 4 mm. wide)
322'	358'		<u>Andesitic Tuffs</u> - Some fine layers of acidic, cherty tuffs between 322'-327'. - Occasional fragments. - Narrow interlayers of fine grained flows. - Three 1" to 1½" thick veinlets of pegmatite at 327', 328' and 341'. - Traces of disseminated pyrite throughout.
358'	366'	47°	<u>Dacitic Tuffs</u> With traces of pyrite as dissemination and stringers.
366'	379'		<u>Andesitic Tuffs</u> Traces of pyrite throughout.

OVERALL CORE RECOVERY BELOW THE CASING = 95%



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

DIAMOND DRILL RECORD

Claim #L400000
 LOCATION L112S 52+75E DIRECTION 132° DIP -50° HOLE No. PA-75-2
 N. Saracoglu
 LOGGED BY M. Hodgson CASING 42'NW, 48'AW SHEET No. 1
 STARTED Feb. 12, 1975 CORE SIZE AQ CORRECTED TESTS 250': -31°
468': 38°
 FINISHED Feb. 19, 1975
 PROPERTY PROJECT ABITIBI

FROM	TO	Core Angle	DESCRIPTION
0'	48'		<u>OVERBURDEN</u> Clay and sand Boulders at 42'.
48'	106'		<u>ANDESITIC LAVAS</u> Medium grained lavas with disseminated blebs of pyrite throughout. Carbonates and pyrite on shears that cut the core at angles ranging from 10° to 40°.
		40°	Most shears are parallel to the foliation. Feldspars and mafic minerals are moderately altered.
			<u>51'-52.5'</u> : Fine grained andesitic lavas.
		40°	<u>65'-69'</u> : Highly sheared andesitic tuffs with thin, 5 mm., more felsic bands throughout.
		60°	1" barren quartz vein
			Badly broken ground at 53.5', 61.0', 66', 67'.
			<u>78'</u> : ½" quartz vein in a 6" section of broken ground.
			<u>91' and 93'</u> : Specks of Py, Po, Cp, on narrow shears, 5 mm.
		50°	<u>104'-106'</u> : Highly sheared andesitic lavas.
106'	119'		<u>DACITIC LAVA</u> Weakly foliated, fine grained matrix with larger feldspars (up to 2mm.). Traces of pyrite throughout
		45°	114'-119': Finer grained, well foliated.



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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. PA-75-2
 LOGGED BY _____ CASING _____ SHEET No. 2
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____


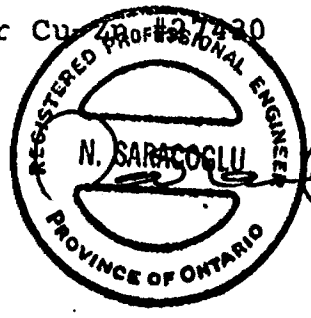
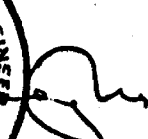
FROM	TO	Core Angle	DESCRIPTION
119'	337'		<u>GRAPHITIC PELITES</u> Massive to finely bedded with varying amounts of graphite throughout. Traces of disseminated pyrite throughout Bedding angle varies. Pyrite and carbonates occur on shears. There is evidence of disrupted bedding and well developed slaty cleavage throughout the section.
		35°	<u>119'-135'</u> : Alternating highly sheared layers of graphitic pelites and volcanic tuffs. The volcanics are very talcose and chloritized.
		50°	<u>125'-126.5'</u> : Barren quartz vein
			<u>127'-128'</u> : Badly broken graphite-rich zone
			<u>132.3'-134.8'</u> : Mafic tuff with highly stretched fragments of up to 5 mm.
			<u>157'</u> : Specks of Py, Po, Cpy on shear.
			<u>161'-162.5'</u> : 1.5 ft. of talc chlorite schist with some isolated Py cubes.
			<u>164'-166'</u> : 2 ft. of intermediate tuff.
			<u>195'</u> : 1 ft. of dacitic tuff.
		20°	<u>200'</u> : Shear
		65°	<u>218'</u> : Shear
			<u>227'</u> : 6" barren quartz vein
		55°	<u>227.5'-246'</u> : Graphite-rich zone, up to 1% Py in cubes, concretions and disseminated throughout. Bedding.
			<u>227-9'-244.5'</u> : Broken sections



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. PA75-2
LOGGED BY _____ CASING _____ SHEET No. 3
STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
FINISHED _____
PROPERTY _____

FROM	TO	DESCRIPTION
		<u>263'-299'</u> : Graphitic pelites interlayered with slightly more silty (tuffaceous) layers. Less Py present throughout Carbonates and Py present on shears
	30°	<u>285'</u> : 1.5 ft. of barren quartz
		<u>277'-299'</u> : Many quartz veinlets at all angles 1/4" to 1.5 ft.
		<u>288'-299'</u> : Varying amounts of dacitic tuffs interlayered with the pelites. Trace amounts of disseminated pyrite throughout
	55°	<u>297'</u> : Bedding
		<u>299'-337'</u> : Graphitic pelite with some thin layers of dacitic tuff. Large crystals, up to 1 cm., or concretions of Py, up to 1%. Quite rich in graphite.
		<u>303'</u> : 6" of highly sheared massive graphite.
	55°	<u>307'</u> : Bedding
		<u>325'-335'</u> : Broken ground
	60°	<u>327'</u> : Bedding
		<u>337'-339'</u> : Transition from graphitic pelites to fine grained dacitic tuff. Up to 2% Py throughout as small cubes, 3mm., or disseminated.
		<u>335'-340'</u> : Split core sample #27429 Analysis for 32 elements.
		<u>340'-346'</u> : Split core for Cu

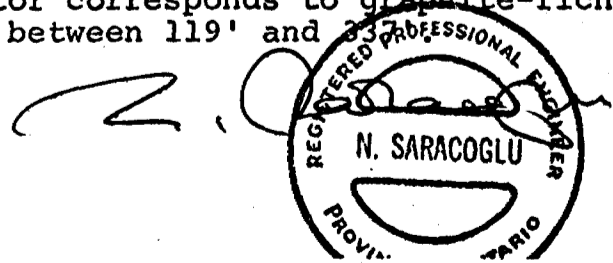




CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
DIAMOND DRILL RECORD

PA-75-2

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. _____
 LOGGED BY _____ CASING _____ SHEET No. 4
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	Core Angle	DESCRIPTION
339'	402'		<u>FINE GRAINED ANDESITIC TO DACITIC LAVA</u> Massive to poorly bedded. Trace of disseminated Py throughout, carbonate and Py on shears.
402'	403'		Tuffaceous material mixed with graphitic pelite.
403'	427'		<u>FRAGMENTAL</u> Made up of up to 60% of stretched felsic fragments up to 2" in size. Andesitic matrix. Trace of Py and Po, more Po than Py.
		65°	<u>423'</u> : 6" of graphitic pelite. Bedding
427'	478'		<u>DACITIC TO ANDESITIC LAVAS</u> With local fragments. Fine grained, poor trace of sulfides throughout.
		30°	<u>433'</u> : ¼" aplite vein. <u>434'</u> : ½" barren quartz vein. <u>448'</u> : 1' of vuggy fragmental with vugs up to 5 mm., filled with Py and Po to 1%. <u>452'-453'</u> : Trace to 1% Py on shears and fractures. <u>455'-456'</u> : 6" barren quartz vein, 3" shear, Speck of Po and Cpy on shear. <u>474'-478'</u> : Dacitic tuff, massive, fine grained, No sulfides.
			OVERALL CORE RECOVERY BELOW CASING = 97%
			The Turam conductor corresponds to graphite-rich zones in pelites between 119' and 337'



CANADIAN OCCIDENTAL PETROLEUM LTD.

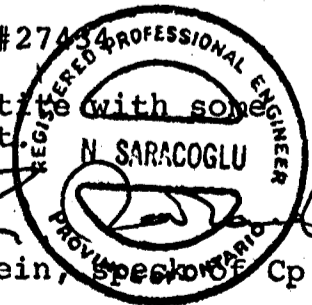
MINERALS DIVISION

DIAMOND DRILL RECORD

Claim #371834
 LOCATION L108 44+00 E DIRECTION 132° DIP -55° HOLE No. PA-75-3
 LOGGED BY Namik Saracoglu CASING NW-86', AW-92' SHEET No. 1
 STARTED Feb. 23, 1975 CORE SIZE AQ CORRECTED TESTS 150' - 48°
 FINISHED Feb. 26, 1975 434' - 30°

PROPERTY PROJECT ABITIBI

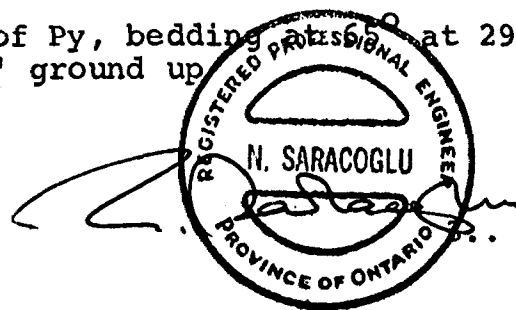
FROM	TO	DESCRIPTION
00	92'	<u>OVERBURDEN</u> 6' of water, then clay, sand and gravel
92'	129	<u>ANDESITIC LAVAS</u> Massive, fine grained, foliated at 40°, trace of Po disseminated throughout, chloritized and talcose in many sections throughout. 99' - 4" quartz feldspar pegmatite vein, badly broken between 102-104, 108-109 114'- 3" barren quartz vein 125', 127' - specks of Cp and Po on a thin (1 cm.) Carbonate vein
129'	135'	<u>ANDESITIC LAVA</u> Slightly more sheared, thin carbonate veins throughout, foliated at 45°. 131-132 - quartz vein at 25°, trace of Po split sampled for Au #27431 132-135' - Numerous small quartz veins split sampled for Au #27432 135-140' quartz vein, brecciated in sections with cavities filled with Po and Py, up to 1% Speck of Cp at 139' split sampled for Au #37432
140'	376'	<u>ANDESITIC LAVAS</u> Fine grained, massive to moderately foliated, trace of Po and Py 140-145' - split sampled for Au #27433 141-142' - Quartz feldspar pegmatite with some muscovite flakes in it. 151' - Foliated at 40° 154' - 4" quartz pegmatite vein, specks of Cp at 160' and 168' 167-169' - Trace of Po up to 2% on shear planes



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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. PA-75-3
 LOGGED BY _____ CASING _____ SHEET No. 2
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	DESCRIPTION
		169' - 2" quartz vein at 60°.
		176' - shear at 55°
		183' - 2" quartz vein, speck of Cp
		183-186' - Mottled dioritic dike. Chilled margins at contact. 50% made of amphibole phenocrysts up to 2 mm., trace of Po
		199' - Shear at 40°
		204-205.5' - Pegmatite vein, trace of Po
		212' - carbonate veins @20' large bleb of Cp at 210' and 213'
		237-239' - Medium grained andesitic lava
		241' Foliated at 70°
		245' - 2" quartz vein at 40° to the core Specks of Po and Cp at the contact
		250' 251.5' - Quartz vein, trace of Po
		258' - 2" barren quartz vein
		263' - Foliated at 50°
		271' - 3" quartz feldspar pegmatite, Po at the contact, speck of Cp and Po at 278' and 290' in 4 mm. carbonate veins 3" quartz veins at 281', 292', 298', trace of Cp and Po specks in 2 mm. carbonate veins at 345', 358'
		366-370' - Medium grained andesitic lava, possible vesicles filled with carbonate.
376'	385.5	<u>DIORITE</u> Fine to medium grained, trace of Py disseminated throughout.
385.5	399	<u>MASSIVE GRAPHITE</u> Highly sheared, trace of Py, bedding at 299' Poor core recovery - 5' ground up
399'	401'	<u>DIORITE</u> Fine to medium grained



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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ Pa-75-3
 HOLE No. _____
 LOGGED BY _____ CASING _____ SHEET No. 3
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____



FROM	TO	DESCRIPTION
401'	404'	<u>ANDESITIC LAVA</u> Highly sheared and chloritized
404	426'	<u>ANDESITIC TUFFS</u> well bedded at 75° to the core. Thin, up to 6" graphitic sections at 406' , 425', 434', badly broken throughout.
426'	434'	<u>ANDESITIC LAVA</u> Fine grained, foliated at 72°, no visible sulfides 1" quartz vein at 430'. <u>END OF HOLE AT 434'</u>



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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
 DIAMOND DRILL RECORD

Claim #L400007
 LOCATION L 112S, 23E+15 DIRECTION 132° DIP -55 HOLE No. PA-75-4
 LOGGED BY Martin Hodgson CASING 16'NW, 18'AW SHEET No. 1
 STARTED March 1, 1975 CORE SIZE AQ CORRECTED TESTS 200' - -38°
 FINISHED March 4, 1975 Core Recovery below casing = 97.8% 475' - -19°
 PROPERTY PROJECT ABITIBI

FROM	TO	Core Angle	DESCRIPTION
0'	2'		<u>Ice</u>
2'	10'		<u>Water</u>
10'	18'		<u>Overburden (clay)</u>
18'	161'		<u>Andesitic Lavas</u> - medium to fine grained, trace of Po and Py
		30°	23' - foliated at 30°
		27°	27' - 1" quartz vein at 27° to the core.
			40' - 3 x 1/4" quartz veins.
			Carbonate veins 1/4" - >2" with trace of Po and Py as stringers and blebs at 45'-57', 51'-54', 69'
		30°	57' - Sheared at 30°. Strongly sheared 6" sections at 50', 67', 70'
		48°	77' - 2 x 1" sheared, chloritized, slightly magnetic sections.
			84' - 6" barren quartz vein.
			112'-115' - broken section
			118'-120.6' - barren quartz vein
			Stringers of Po and Py in thin carbonate veins at 126', 129', 134', 143', 144'.
			131'- 132' - 5 x 1/4" barren quartz veins.
			146' - 1" barren quartz vein.
161'	164'	65°	<u>Graphitic Tuff</u> 163' - Bedding at 65°. 10% Po and Py Split sampled for 32 elements #27435.
164'	195'	10°	<u>Andesitic Lava</u> Medium to fine grained. Trace of Po and Py. 175.5'-188') Broken smoky quartz vein. and) Trace of Py on shears. 189'-190') Large bleb of Po, speck of Cp at 175.5' Split sampled 175'-180' for Au #27436 " " 180'- 185' " Au #27437 " " 185'- 190' " Au #27438
195'	201'		Barren quartz vein, trace of Po blebs in carbonate vein near contact.

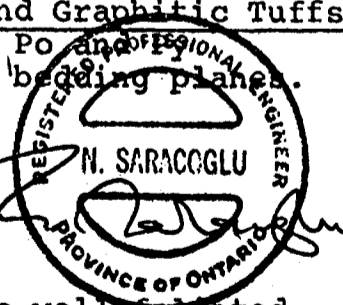


 REGISTERED PROFESSIONAL ENGINEER
 N. SARACOGLU
 PROVINCE OF ONTARIO

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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
DIAMOND DRILL RECORD

PA-75-4

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. _____
 LOGGED BY _____ CASING _____ SHEET No. 2
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	Core Angle	DESCRIPTION
201'	206'		<u>Graphitic Tuff</u> - Trace of Po and Py on bedding planes and disseminated throughout. Some carbonate veins.
206'	211'		<u>Andesitic Lava</u>
211'	258'		<u>Pelites</u> - interlayered with tuffs, fine grained, disrupted bedding. Trace to 1% Po and Py.
		50°	211'-216' - graphitic pelites magnetic in places, possible iron formation. 227'-246' - broken section Lamprophyre dikes, 10-20% biotite crystals. 1" at 244' at 50° to the core 6" at 248' 2" at 252'
258'	276'		<u>Andesitic Lava</u>
276'	383'	20°	<u>Diorite</u> - massive, coarse grained, mafic rich. Trace of sulphides, chilled margins. Some inclusions of andesitic lava near contacts. 341'-348' - 5 x 2" quartz veins at 20° to the core Po and Py blebs in quartz and at contact
383'	395'		<u>Sheared Andesitic Lava</u> - trace of Po and Py
395'	396'		<u>Quartz-Feldspar Pegmatite</u>
396'	397'		<u>Magnetic-ultramafic dike</u>
397'	420'		<u>Interlayered Intermediate Lavas and Graphitic Tuffs</u> Well banded, trace of Po and Py
			400'-412' - 1% Po, speck of Cp on bedding planes.
420'	475'		<u>Fine Grained Andesitic Lava</u> 472'-473.5' - barren quartz vein
			END OF THE HOLE AT 475'
			Medium to fine grained, massive to well foliated



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
DIAMOND DRILL RECORD

PA-75-4

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. _____

LOGGED BY _____ CASING _____ SHEET No. 3

STARTED _____ CORE SIZE _____ CORRECTED TESTS _____

FINISHED _____

PROPERTY _____

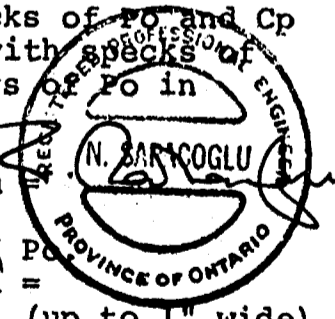
FROM	TO	DESCRIPTION
		<p>andesitic lavas throughout the hole. Trace of sulphides in the massive sections. A somewhat better concentration in sheared sections or where carbonates had been inplaced. Some Py evident on shears. Some sections quite chloritized and talcose. Graphitic tuffs intersected between borehole depths of 161'-164', 201-206', 211'-216' and 397'-420' correspond to Turam conductors.</p>




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CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
DIAMOND DRILL RECORD

Claim #400024
 LOCATION L 104S, 11+80E DIRECTION 132° DIP -55° HOLE No. PA-75-5
 LOGGED BY M. Hodgson CASING NW=80', AW=95' SHEET No. 1
 STARTED March 5, 1975 CORE SIZE AQ CORRECTED TESTS 237': -40°
550': -30°
 FINISHED March 8, 1975
 PROPERTY PROJECT ABITIBI

FROM	TO	Core Angle	DESCRIPTION
0'	2'		<u>Ice</u>
2'	10'		<u>Water</u>
10'	95'		<u>Overburden - mostly clay, some sand.</u>
95'	482'		<u>Andesitic Lava</u> - Massive to well foliated. - Fine to medium grained. - Generally very rare and localized sulphides in trace amounts throughout the section. Sulphides consist of Po (predominant in lower part of the section). - Numerous veinlets of carbonates with concentration of Py and Po. - Sulphides (Po + Py) also occurring as coating on shear planes. - Strong chloritization in many short sections. 40° 102': foliated at 40°. 45° 104', 107': 1" of quartz veinlets with Po + Cp 116'-117' = barren quartz vein. 133' - quartz veinlet, 1" wide. 134' - 8" wide quartz vein, Po at contacts. 135', 136', 143' = 1" wide quartz veinlets. 60° 143' - foliation = 60°. 147'-149' = three quartz veinlets, barren. Five 1" to 2" wide quartz veins between 150'-160'. 163'-165' - strongly sheared section with carbonate veinlets containing specks of Po and Cp - 200' - carbonate veinlet (1½") with specks of Po and Cp. Also stringers of Po in shears along the veinlet. 75° 215'-218' - quartz vein sample No. - 27339 Au = -222' - shearing - 75° 239'-236' - quartz vein, specks of Po Sample No. - 27440, Au = Numerous calcite veinlets (up to 1" wide) between 236'-250' 239' - one speck of Cp 244' - one large bleb of Cp. 251-254' - quartz vein with one large bleb of Cp at the upper contact. Sample No. - 27441, Au =



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
DIAMOND DRILL RECORD

PA-75-5

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. _____
 LOGGED BY _____ CASING _____ SHEET No. 2
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	Core Angle	DESCRIPTION
			256'-259' - quartz vein Sample No. 27442, Au =
			275'-276': numerous thin (2 mm.) carbonate veinlets. about 10% Po + Py.
			278'-280.5' - section with carbonate veinlets. Trace Cp and 10% Po. Sample No. = 27443 Cu = , Zn =
		60°	2 x 1/4" wide carbonate vein at 278' cutting the core at 60°. One 4" wide carbonate vein at 280' cutting the core at a very flat angle.
			288' - 2 x 1/4" wide carbonate veinlets with trace Cp and 10% Po.
			286' - 1' wide quartz vein
			296' - 2" wide " "
			297' - 1' wide " "
		50°	303' - Foliation : 50°
			308' - 1" wide quartz veinlet.
			312' - Trace Py on shear planes.
			315' - 3" wide carbonate vein with 1% Po.
			316' - 4" wide carbonate vein with trace Po+Py
			317' - 1" wide carbonate vein with trace Po.
			318', 320', 322' - one foot wide quartz veins. Sample 27444 (318'-324') Au:
			333'-337' - Three 1" to 6" wide carbonate veins with trace to 10% Po. Trace Cp at 336' in carbonate vein.
			356' - Several thin (4 mm.) interlayers of graphite.
		30°	361' - 2" wide quartz vein with Po and Cp in trace amount.
			367' - One speck of Cp
			383' - 4" wide carbonate vein.
			386' - Two thin (4 mm.) interlayers of graphite
			385', 388' - 6" wide quartz veins.
			391' - 1" wide carbonate vein with 10% Po + Py
			410' - Specks of Cp and Po in a thin carbonate vein.
			413' - 1" wide carbonate vein with 10% Po.

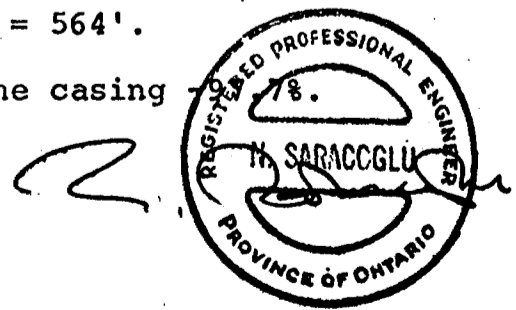
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 REGISTERED PROFESSIONAL ENGINEER
 H. SARACOGLU
 PROVINCE OF ONTARIO

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
DIAMOND DRILL RECORD

PA-75-5

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. _____
LOGGED BY _____ CASING _____ SHEET No. 3
STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
FINISHED _____
PROPERTY _____

FROM	TO	Core Angle	DESCRIPTION
			424' - 3" wide carbonate vein with trace Po. and 6" wide graphitic tuff interlayer with trace to 1% Po. 426'-427' - calcite vein 447'- 448' - a somewhat dacitic section. 471'-472' - calcite vein with 5% Py, 5% Po and one speck of Cp. 481'-482' - dark grey andesitic lava with 5 to 10% Po + Py.
482'	483'		<u>Massive Graphite</u> - strongly sheared and veined with carbonate. 10% Py.
483'	484'		<u>Andesitic Lava</u>
484'	489.5'		<u>Interlayered andesitic lava and Massive Graphite</u> Overall 20%Py. 487'489' - massive graphite. Sample 27445 (482'-486') Cu = , Zn = Sample 27446 (486'-490') analysed for 32 elements.
489.5'	491'		<u>Andesitic Lava</u> - massive, fine grained. 5% pyrite.
491'	525'	50°	<u>Mafic Tuff</u> - fine grained, andesitic in composition. Trace Py. Bedded at 50°.
525'	533'		<u>Andesitic Lava</u>
533'	534'		<u>Graphitic Tuff</u> - sheared, broken, trace to 1% Py.
534'	535'		<u>Andesitic Tuff</u> - bedded at 65°. Trace PY.
535'	564'		<u>Andesitic Lava</u> - massive, fine grained. Trace PY.
			END OF THE HOLE = 564'.
			Core recovery below the casing



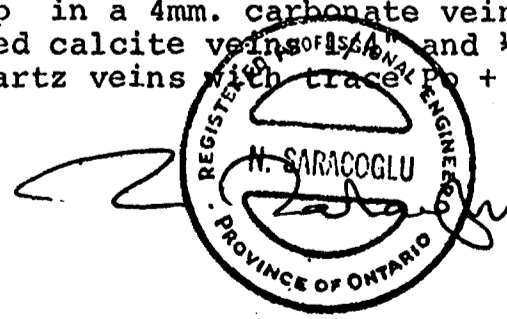
CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

DIAMOND DRILL RECORD

Claim #400059
 LOCATION L 112S,17+80W DIRECTION 132° DIP -60° HOLE No. PA-75-6
 LOGGED BY M.Hodgson CASING NW: 82', AQ: 106' SHEET No. 1
 STARTED March 10, 1975 CORE SIZE AO CORRECTED TESTS 200': -45°
 Core Recovery Below 557': -31°
 FINISHED March 13, 1975 The Casing = 96.6%

PROPERTY PROJECT ABITIBI

FROM	TO	Core Angle	DESCRIPTION
0'	2'		Ice
2'	10'		Water
10'	106'		Overburden - clay, some gravel.
106'	450'		Andesitic Lavas - medium grained with finer grained sections. Massive to poorly foliated. Trace of Py and Po throughout. Intensely chloritized and talcose in short sections.
		20°	107': 6" broken section
		50°	109': sheared at 20°
			111': 1/4" calcite vein at 50° siderite at contact.
			118': 1" quartz vein.
			122': 3" pegmatite vein
			159': 1/2" quartz vein
		40° to 50°	162'-233': well foliated, fine grained andesitic lavas.
			164': 1/2" quartz vein
			169'-172': vesicular andesite. Vesicles filled with quartz and carbonate.
			236'-237': carbonate-rich section about 1% Py + Po (flow top?)
			251', 260', 265': 3" to 6" broken sections.
			275'-350': numerous very thin (1-2 mm.) carbonate veinlets.
			282': bleb of Po + Cp in a one mm. carbonate vein
			285', 298', 299': 1/2" wide quartz veins
			322': specks of Py + Cp in a 4mm. carbonate vein
			338', 347': white and red calcite veins of 1/4" and 1/2".
			378', 391': 6" wide quartz veins with trace of Po + Py



CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

DIAMOND DRILL RECORD

PA-75-6

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. _____

LOGGED BY _____ CASING _____ SHEET No. 2

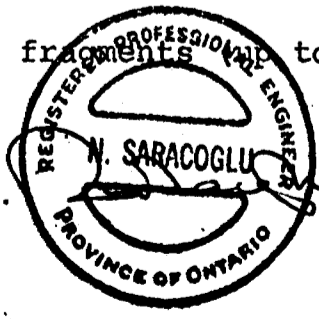
STARTED _____ CORE SIZE _____ CORRECTED TESTS _____

FINISHED _____

PROPERTY _____

FROM	TO	Core Angle	DESCRIPTION
			392'-404' : sections of coarse grained andesitic lava 401': 4" wide quartz vein. 404': 6" broken section 425': 4" wide section with 20% disseminated magnetite 425'-426.5': Lapilli tuff, fragmental felsic fragments in a mafic matrix
450'	459'		Sheared Andesitic Tuff - with some felsic fragments and two 2" wide graphite interlayers.
459'	465'		Graphitic Tuff - bedded @ 70°, trace to 2% Po + Py 463'-464': massive graphite.
465'	483'		Brecciated Graphitic Tuff - with trace Po + Py. 470': 2" quartz vein. 478'-483': ground core. 478': some blebs of chalcopyrite.
483'	496'		Dacitic Lava - fine grained, trace to 1% Py + Po.
496'	506'	65°	Graphitic Tuff - bedded at 65°. 497'-500': massive graphite, about 10% Py.
506'	526'	60°	Andesitic Lava - fine grained (andesitic tuff?) trace to 1% Po + Py disseminated throughout. Odd thin graphitic interlayers (up to 10 mm.). Foliated @ 60°. 512'-514': graphitic tuff, 10% Py. 517': 6" of graphitic tuff and 8" of calcite with trace Py.
526'	528'		Brecciated Graphitic Tuff - 8-10% Py + Po quartz veinlets throughout.
528'	532'		Interlayered Sheared Andesitic Tuff and Graphitic Tuff with some small fragments.
532'	538'		Andesitic Tuff - with quartz fragments (up to 4mm.) 536': 1" quartz vein.

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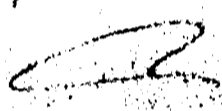



PROFESSIONAL ENGINEER
REGISTERED
N. SARACOGLU
PROVINCE OF ONTARIO

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 CANADIAN FEDERAL PROTECTIVE
 MINERALS DIVISION
 DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ PA-75-1
 LOGGED BY _____ CASING _____ SHEET No. 3
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	to	Core Angle	DESCRIPTION
538'	586'		Mafic-Rich Diorite - massive, coarse grained. Chilled at the contact. Trace Py. Overall 1-2% magnetite. Feldspars partially saussuritized. 546': 3" wide calcite vein. 557': 2 x 1" wide quartz vein. 579': 2" wide quartz-carbonate vein. END OF THE HOLE = 586'.

MINERALS DIVISION
DIAMOND DRILL RECORD

Claim #L400067

LOCATION L1125 35+75 W DIRECTION 132⁰ DIP -65⁰ HOLE No RA-75-

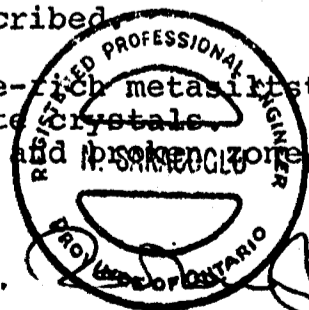
LOGGED BY N. SARACOGLU CASING NW:92', AW:178' SHEET No. 1

STARTED March 15, 1975 CORE SIZE AO CORRECTED TESTS 200':-55⁰
520':-28⁰

FINISHED March 21, 1975 Core recovery below the casing= 96.8%

PROPERTY PROJECT ABITIBI

FROM	TO	Core Angle	DESCRIPTION
0	2'		<u>Ice</u>
2	11'		<u>Water</u>
11'	178'		<u>Overburden</u> : clay, sand and from 92' packed boulders
178'	411'		<u>METAGRAY WACKES</u> : fine to medium grained, narrow interlayers of phyllite. Narrow light grey to grey-green. Very mafic-rich. Thinly bedded. Several interlayers of mafic metatuffs and some strongly sheared andesite interlayers (up to 2'). Very high proportion of mafic minerals and numerous tuff and andesite interlayers indicate the proximity of the underlying andesitic volcanics.
		50 ⁰	186' - bedding: 50 ⁰ 212' - 2" quartz feldspar vein 212' - 213': coarse grained probably vesicula flow top. Vesicles filled with quartz.
		40 ⁰	244' - foliation: 40 ⁰ 245' - 4" pegmatite vein. 260', 287' - 2" pegmatite veins. 291' - 304': numerous thin (up to 1") quartz veins.
			<u>356' - 357'</u> : GRAPHITIC ZONE: with up to 2% oxidized py and several 4mm sections of graphite. Four 1" carbonate veins.
		50 ⁰	358' = 5" quartz vein 394' = foliation 50 ⁰
411'	414'		<u>ANDESITIC SILL OR COARSE GRAINED ANDESITIC LAVA INTERLAYERS</u> Numerous 1 - 3 mm quartz veinlets. 413': one bleb of chalcopyrite.
414'	434'		<u>METAGRAYWACKE</u> as above described. Somewhat more silty. 418'-419 5': magnetite-rich metasiltstone peppered with magnetite crystals. 421'-426': brecciated and barren zone. poor core recovery.



CANADIAN OCCIDENTAL INTERNATIONAL
 MINERALS DIVISION
DIAMOND DRILL RECORD


- 51 -

PA-75-7

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. _____
 LOGGED BY _____ CASING _____ SHEET No. 2
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	CORE ANGLE	DESCRIPTION
434'	462'	45°	<p><u>BANDED MAFIC TUFFS</u></p> <p>454' = 1' barren quartz vein. 458' = banding 45°</p>
462'	575'	70°	<p><u>METAGRAYWACKES</u></p> <p>as described in the beginning of the log. 509' - 542' = numerous ½" to 1" barren quartz veins. 522' = foliation = 70°</p> <p>END OF THE HOLE 575'</p> <p>The only conductive zone was intersected between 356' - 357'. Surface indications of the Turam conductor is equal not strong.</p>

[Handwritten Signature]



REGISTERED PROFESSIONAL ENGINEER
 N. S. MIRONOV
 PROVINCE OF ONTARIO

MINERALS DIVISION

DIAMOND DRILL RECORD

Claim #L399935

LOCATION L1925 21+80E DIRECTION 132° DIP -60° HOLE No. PA-75-

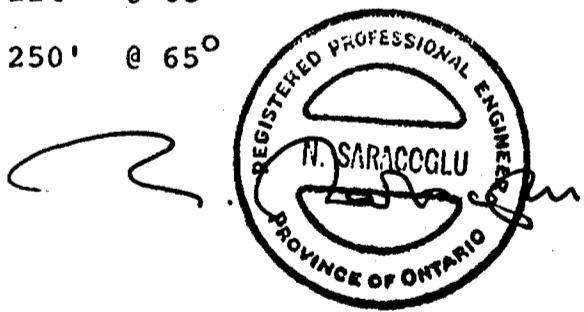
LOGGED BY N. Saracoglu CASING AW-72' NW-70' SHEET No. 1

STARTED March 24, 1975 CORE SIZE AQ CORRECTED TESTS 187' - 43°
498' - 24°

FINISHED April 1, 1975

PROPERTY PROJECT ABITIBI Core Recovery below the casing = 98%

FROM	TO	DESCRIPTION
00	02'	Ice
02'	10'	Water
10'	72'	Overburden = Clay and sand
72'	192'	<u>ANDESITIC LAVAS</u> Medium grained, moderately foliated talcose and chloritized in many places numerous 2-5 mm quartz and carbonate veins. Vesicular flow tops in some sections.
		50° Foliation at 100' and 125' @ 50°.
		55° Foliation at 150' and 175 @ 55°.
		1" to 2" Quartz Veins at 82', 85', 113', 131'.
192'	208.5	A more highly altered section of Andesitic Lavas, Interlayered with a fresher section
208.5'	210'	58° Foliation at 200' @ 58° <u>Porphyritic Dacite</u>
		Medium Grained
210'	264'	<u>ANDESITIC LAVA</u> Several pillow margins were intersected. Chloritic interpillow material, trace PO
		60° Foliation at 224' @ 60°
		65° Foliation at 250' @ 65°





CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
DIAMOND DRILL RECORD

- 53 -

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. PA-75-8
 LOGGED BY _____ CASING _____ SHEET No. 2
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

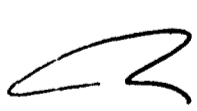

FROM	TO		DESCRIPTION
264'	272'		<p><u>ANDESITIC TUFFS</u></p> <p>A few narrow bands of graphite trace of Po bedding at 270' @ 70°</p>
272'	288'		<p><u>ANDESITIC TUFFS</u></p> <p>Massive to slightly bedded</p>
288'	306'		<p><u>GRAPHITIC TUFFS</u></p> <p>Trace to 1% Po with sections of massive graphite 1" @ 288' 6" @ 291', 292' 2" @ 293', 295' 12" @ 305'</p> <p>288'-290' 2-4mm Felsic Fragments</p> <p>Split Sampled 293'-298' for Au, Cu, Zn #27461</p> <p>Split Sampled 298'-304' for Au, Cu, Zn #27476</p>
306'	336'	30°	<p><u>ANDESITIC TUFF</u></p> <p>Trace Po and Py Bedding at 349' @ 30° Bedded to slightly sheared to brecciated Massive Graphite Sections: 6" at 340', 345' 2" at 350' 4" at 352'</p> <p>Numerous small carbonate veins, especially in the massive graphite sections.</p>

MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. PA-7
 LOGGED BY _____ CASING _____ SHEET No. 3
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	DESCRIPTION
354'	375'	<u>ANDESITIC TUFF</u> Trace of Po Massive to slightly bedded 1' Quartz Vein at 364'
375'	378'	<u>GRAPHIC TUFF</u> 376'-377 Massive Sheared Graphite trace to 1% Po and Py
378'	422'	<u>ANDESITIC TUFF</u> Massive to slightly bedded
422'	426'	<u>GRAPHITIC PELITES</u> 45° Bedding at 424' @ 45° 1" Quartz Vein at 223' Grade into graphitic tuffs 425'-426'
426'	431'	<u>ANDESITIC TUFF</u> Odd Graphitic Seams 426'-427'
431'	458'	<u>ANDESITIC LAVAS</u> Medium Grained trace Po and Py coarse grained between 444'-456'
458'	460'	<u>ANDESITIC TUFFS</u> Odd Graphitic Seams 1% Po and Py

CANADIAN OCCIDENTAL PETROLEUM LTD. - 55 -
 MINERALS DIVISION
DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE N^o PA-75-8

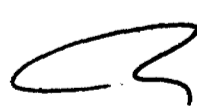
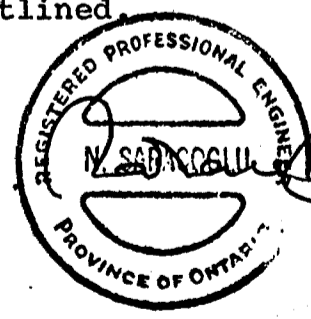
LOGGED BY _____ CASING _____ SHEET No. 4

STARTED _____ CORE SIZE _____ CORRECTED TESTS _____

FINISHED _____

PROPERTY _____

FROM	TO		DESCRIPTION
460'	467'	75°	<p><u>GRAPHITIC TUFFS AND PELITES</u></p> <p>Massive Graphite 460'-462' 1 to 2% py, 5 to 15% Po throughout as stringers and on bedding planes Bedding at 464' @ 75°</p> <p>Split Sampled 458'-460' for Au, Cu, Zn, #27477 " " 460'-467' for Au + 32-Element Semi quantitative analysis</p>
467'	500'		<p><u>ANDESITIC TUFFS</u></p> <p>Odd Seams of Graphite, Chloritized in places trace of Po 497' Numerous Calcite Veins trace Po and Py</p>
500'	509'		<p><u>ANDESITIC LAVA</u></p> <p>Massive, Medium Grained trace Po and Py</p> <p>End of the Hole 509'</p> <p>A strong turam conductor at surface corresponds to numerous graphitic tuff and massive graphite sections intersected in the hole.</p> <p>Concentrations of pyrrhotite are important enough to give magnetic anomalies outlined.</p>

APPENDIX I

PROJECT ABITIBI - DIAMOND DRILLING 1975

LEGEND

SYMBOLS

PA-75-6	= Diamond Drill Hole, No., Inclinaison
● -60°	
A.B.S.	= Corrected acid bottle survey,
E.O.H.	= End of the hole
—	= Foliation, Banding, Bedding
~	= Shearing
- - -	= Probable Fault
- - -	= Narrow Veins, Veinlets
Py	= Pyrite
Po	= Pyrrhotite
Cp	= Chalcopyrite
Sp	= Sphalerite
Mg	= Magnetite
fg	= Fine Grained
mg	= Medium Grained
cg	= Coarse Grained
fol	= Foliated
br	= Brecciated
F.S.R.	= Field Strength Ratio



APPENDIX I

(Cont'd)

LITHOLOGY

- 6 = Diabase
- 5a = Diorite
- 5b = Gabbro
- 5c = Serpentinite
- 4 = Granite Pegmatite, Aplite
- 4a = Lamprophyre
- qv = Quartz Vein
- cv = Carbonate Vein
- 3 = Acid to Intermediate Volcanics
 - 3a = Rhyolite
 - 3b = Rhyodacite, Dacite
 - 3c = Rhyolitic and Dacitic Fragmentals
 - 3d = Acidic Banded and Bedded Tuffs
 - 3e = Massive Acidic Tuffs

- 2 = Basic Volcanics
 - 2a = Andesite
 - 2b = Basalt
 - 2c = Andesitic Fragmentals
 - 2d = Andesitic Tuff
- GR = Graphite, GRT = Graphitic Tuff
- 1 = Sediments
 - 1a = Greywacke
 - 1b = Pelitic Sediments (Slates)
 - 1c = Iron Formation

APPENDIX II

PROJECT ABITIBI - DIAMOND DRILLING 1975

STATISTICAL DATA

Duration of Work = 64 days (Jan 29 - Apr 3, 1975)
No. of holes drilled = 8
Total footage drilled = 4000
Average daily footage = 62.5
Average core recovery = 96.6%
below casing
No. of core-chip samples collected = 322
No. of analyses = 804
No. of split core samples collected = 40
No. of assays = 54

APPENDIX III

HOSKING DIAMOND DRILLING PERSONNEL
INVOLVED IN THE PROGRAMME

Edmond St. Gelais	= foreman and runner
Claude Houlle	= runner
Fernand Lafontaine	= "
Guy Laperle	= helper
Denis Lafontaine	= "
Luc Guenette	= "

APPENDIX IV

GEOCHEMICAL LAB REPORTS
SEMI-QUANTITATIVE ANALYSIS REPORTS
ASSAY REPORTS



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

TO Canadian Occidental Petroleum Ltd.,
Suite 801, 161 Eglinton Avenue East,
Toronto 12, Ontario.

RECEIVED

APR 18 1975

J. J. B.

REPORT NO. ... A-203-75

DATE April 16, 1975

I hereby certify that the following are the results of analyses made by us upon the herein described split core samples

DRILL HOLE PA-75-8

MARKED		oz/ton	%	%					
		Au	Cu	Zn					
27461	293' - 298'	trace	0.01	0.02					
27476	293' - 304'	nil	trace	0.01					
27477	455' - 460'	nil	trace	0.03					
27478	460' - 467'	trace							
		Trace: less than 0.010 oz/ton Au							
		Trace: less than 0.01% Cu.							
		32-element semi-quant. analyses to follow.							

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BONDAR-CLEGG & COMPANY LTD.

NOTE:
Rejects retained two weeks
Pulps retained three months

..... *W-Wong*



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

RECEIVED

FEB 28 1975

J. J. B.

Certificate of Analysis

TO Canadian Occidental Petroleum Ltd.,
Minerals Division, Suite 801,
161 Eglinton Avenue East, Toronto 12, Ontario.

REPORT NO. A-96-75

DATE February 21, 1975

I hereby certify that the following are the results of analyses made by us upon the herein described Core samples

DRILL HOLE PA-75-1

MARKED		%	%						
		Cu	Zn						
24727	187' - 192'	0.22	0.05						
24728	192' - 197.5'	0.05	0.04						

- 62 -

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged

..... *W. Wong*



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

TO Canadian Occidental Petroleum Ltd.,
Suite 801 - 161 Eglinton Avenue East,
Toronto 12, Ontario.

RECEIVED

MAR 5 1975

J. J. B.

REPORT NO. ... A-106-75

DATE February 27, 1975.....

I hereby certify that the following are the results of analyses made by us upon the herein described ... core samples

DRILL HOLE PA-75-2

MARKED		%	%						
		Cu	Zn						
27430	345'-346'	trace	trace						
				Trace: less than 0.01% Cu, Zn.					

- 03 -

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months

W-20-75



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

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MAR 17 1975

J. J. B.

Certificate of Analysis

TO Canadian Occidental Petroleum Ltd.,
801 - 161 Eglinton Avenue East,
Toronto 12, Ontario.

REPORT NO. A-142-75

DATE March 13, 1975

I hereby certify that the following are the results of analyses made by us upon the herein described Core samples

MARKED		oz/ton							
		Au							
27431	131' - 132'	trace	DRILL HOLE		PA-75-3				
27432	132' - 135'	trace							
27433	135' - 140'	trace							
27434	140' - 145'	trace							
27436	175' - 180'	trace	"	"	PA-75-4				
27437	180' - 185'	trace							
27438	185' - 190'	trace							
		Trace: less than 0.010 oz/ton Au							

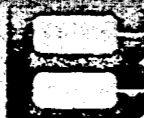
- 64 -

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged

..... W-Wing



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

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MAR 18 1975

J. J. B.

Certificate of Analysis

TO Canadian Occidental Petroleum Ltd.,
801 - 161 Eglinton Avenue East,
Toronto 12, Ontario.

REPORT NO. A-147-75

DATE March 14, 1975

I hereby certify that the following are the results of analyses made by us upon the herein described Core samples

DRILL HOLE PA-75-5

MARKED		oz/ton	%	%					
		Au	Cu	Zn					
27439	215' - 218'	trace							
27440	230' - 236'	trace							
27441	251' - 254'	trace							
27442	254' - 259'	trace							
27443	278' - 280.5'		0.04	0.01					
27444	318' - 324'	trace							
27445	422' - 426'		0.01	0.03					
		Trace: less than 0.010 oz/ton Au							

- 65 -

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged



BONDAR-CLEGG & COMPANY LTD.

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MAR 26 1975

J. J. B.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

TO Canadian Occidental Petroleum Ltd.,
801 - 161 Eglinton Avenue East,
Toronto 12, Ontario.

REPORT NO. A-170-75

DATE March 24, 1975.

I hereby certify that the following are the results of analyses made by us upon the herein described ore dressing samples

DRILL HOLE PA-75-6

MARKED		oz/ton	%	%					
		Au	Cu	Zn					
27447	458' - 466'	nil	0.01	0.05					
27448	466' - 474'	nil							
27449	475' - 497.5'	trace							
27450	497.5' - 503'	nil	0.01	0.05					
27451	503' - 506'	nil							
27452	506' - 512'	nil							
27453	512' - 514.5'	trace	0.02	0.08					
27454	514.5' - 522'	trace							
27455		nil	qz vein in pit in Ty Randa claim						
		Trace: less than 0.010 oz/ton Au							

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months

10- Wong



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Certificate of Analysis

TO Canadian Occidental Petroleum Ltd.,
Suite 801, 161 Eglinton Avenue East,
Toronto 12, Ontario.

REPORT NO. A-207-75

DATE April 16, 1975

I hereby certify that the following are the results of analyses made by us upon the herein described split core samples

MARKED		oz/ton	%	%					
		Au	Cu	Zn					
27456	PA-75-2	231'-233'	trace						
27457	PA-75-4	201'-206'	trace						
27458	"	401'-405.5'	trace						
27459	"	221'-226'	trace						
27460	PA-75-7	356'-357'	nil	0.03	0.15				
			Trace: less than 0.010 oz/ton Au.						

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APR 18 1975

J. J. B.

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

W-Wog



Geochemical Lab Report

Extraction Cu, Zn - HNO₃-HCl

Report No. 87-5

Method A.A.

From Canadian Occidental Petroleum Ltd.
Project: 5384

Fraction Used -100 rocks.

Date March 5, 19 75

DRILL HOLE PA-75-2

SAMPLE NO.		Cu ppm	Zn ppm		SAMPLE NO.		Cu ppm	Zn ppm	
7328	48'-60'	160	76		7359	378'-389'	47	1050	
29	60'-70'	72	57		7360	389'-400'	42	107	
30	70'-80'	70	56						
31	80'-93'	84	56						
32	93'-106'	100	123						
33	106'-119'	78	92						
34	119'-130'	62	250						
35	130'-140'	96	211						
36	140'-150'	88	337						
37	150'-160'	48	540						
38	160'-170'	42	203						
39	170'-180'	59	262						
40	180'-190'	56	177						
41	190'-200'	97	180						
42	200'-210'	68	155						
43	210'-220'	80	223						
44	220'-230'	108	780						
45	230'-240'	172	440						
46	240'-250'	104	233						
47	250'-260'	60	710						
48	260'-270'	38	125						
49	270'-280'	38	163						
50	280'-290'	36	160						
51	290'-300'	42	215						
52	300'-310'	100	344						
53	310'-320'	76	305						
54	320'-330'	262	1160						
55	330'-335'	92	640						
56	346'-356'	49	168						
57	356'-367'	44	168						
58	367'-378'	51	132						

WJW



Geochemical Lab Report

Extraction Cu, Zn - HNO₃-HCl

Report No. 108-5

Method A.A.

From Canadian Occidental Petroleum Ltd.

Project: 5384

Fraction Used -100 rocks.

Date March 7, 19 75

SAMPLE NO.		Cu ppm	Zn ppm	SAMPLE NO.		Cu ppm	Zn ppm
7361	400'-410'	96	285	7392	325'-335'	144	49
62	410'-420'	206	96	93	335'-345'	155	52
63	420'-430'	76	100	94	345'-355'	101	60
64	430'-440'	527	118	95	355'-365'	390	52
65	440'-450'	88	233	96	365'-375'	290	75
66	450'-460'	188	520				
67	460'-470'	74	91				
68	470'-478'	58	72				
69	92'-100'	228	57				
70	100'-110'	106	44				
71	110'-120'	100	56				
72	120'-130'	120	59				
73	130'-140'	61	68				
74	140'-150'	144	148				
75	150'-160'	218	82				
76	160'-170'	96	74				
77	170'-182'	149	76				
78	182'-194'	116	47				
79	194'-205'	130	60				
80	205'-215'	204	71				
81	215'-225'	280	78				
82	225'-235'	212	64				
83	235'-245'	81	61				
84	245'-255'	85	60				
85	255'-265'	88	54				
86	265'-275'	80	28				
87	275'-285'	176	44				
88	285'-295'	121	45				
89	295'-305'	149	42				
90	305'-315'	128	72				
91	315'-325'	171	60				

DRILL HOLE PA-75-2

DRILL HOLE PA-75-3

WPN



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Geochemical Lab Report

MAR 25 1975

Extraction Cu, Zn - HNO₃-HCl

Report No. 121-5

Method A.A.

From Canadian Occidental Petroleum Ltd.,
Project: 5384

Fraction Used -100 rocks.

Date March 21, 1975

SAMPLE NO.			Cu ppm	Zn ppm		SAMPLE NO.		Cu ppm	Zn ppm
DRILL HOLE PA-75-3	7397	375'-385'	95	92		7428	290'-300'	48	72
	98	385'-395'	102	155		29	300'-310'	182	84
	7399	395'-415'	65	136		30	310'-320'	230	70
	7400	412'-424'	53	225		31	320'-330'	127	66
	01	424'-434'	96	205		32	330'-340'	92	86
	02	18'-25'	151	100		33	340'-350'	87	83
	03	25'-35'	132	93		34	350'-360'	316	63
	04	35'-45'	136	68		35	360'-370'	158	76
	05	45'-55'	119	83		36	370'-380'	79	85
	06	55'-65'	100	67		37	380'-390'	84	88
07	65'-75'	145	90		38	390'-397'	115	126	
08	75'-85'	212	96		39	397'-405'	88	375	
09	85'-95'	158	94		40	405'-415'	104	165	
DRILL HOLE PA-75-4	10	95'-105'	124	129		41	415'-420'	102	385
	11	105'-115'	290	109		42	420'-430'	200	145
	12	115'-125'	101	69		43	430'-441'	92	87
	13	125'-135'	140	112		44	441'-452'	142	87
	14	135'-145'	165	99		45	452'-463'	130	82
	15	145'-157'	154	85		7446	463'-475'	254	98
	16	157'-167'	176	95					
	17	167'-175'	102	67					32-element scan to follow.
	18	190'-200'	233	67					
	19	210'-210'	166	390					
20	210'-220'	179	610						
21	220'-230'	112	425						
22	230'-240'	66	217						
23	240'-250'	106	132						
24	250'-260'	100	400						
25	260'-270'	16	47						
26	270'-280'	8	45						
27	280'-290'	158	51						



RECEIVED

Geochemical Lab Report

MAR 25 1975

Extraction Cu, Zn - HNO₃-HCl

Report No. 123-5 J. J. B.

Method A.A.

From Canadian Occidental Petroleum Ltd.,
Project: 5384

Fraction Used -100 rocks.

Date March 21, 1975

DRILL HOLE PA-75-5

SAMPLE NO.		Cu ppm	Zn ppm		SAMPLE NO.		Cu ppm	Zn ppm	
7447	95'-105'	122	68		7478	415'-425'	87	83	
48	105'-115'	75	64		79	425'-435'	60	75	
49	115'-125'	103	93		80	435'-445'	44	85	
50	125'-135'	60	83		81	445'-455'	140	138	
51	135'-145'	49	72		82	455'-465'	53	78	
52	145'-155'	103	80		83	465'-475'	158	85	
53	155'-165'	90	70		84	475'-485'	57	70	
54	165'-175'	124	81		85	490'-500'	67	81	
55	175'-185'	70	75		86	500'-510'	115	84	
56	185'-195'	133	96		87	510'-520'	43	106	
57	195'-205'	115	81		88	520'-530'	55	90	
58	205'-215'	140	86		89	530'-540'	103	135	
59	215'-225'	134	80		90	540'-550'	42	77	
60	225'-230'	120	123		91	550'-564'	57	76	
61	236'-245'	354	80						
62	245'-251'	279	75						
63	259'-270'	115	54						
64	270'-278'	166	95						
65	280.5'-290'	340	95						
66	290'-300'	94	60						
67	300'-310'	46	80						
68	310'-318'	89	86						
69	324'-335'	150	65						
70	335'-345'	45	72						
71	345'-355'	133	65						
72	355'-365'	149	80						
73	365'-375'	212	70						
74	375'-385'	192	77						
75	385'-395'	89	91						
76	395'-405'	86	79						
77	405'-415'	364	114						

32-element semi-quant. analysis to follow.



Geochemical Lab Report

RECEIVED

Extraction Cu, Zn - HNO₃-HCl

Report No. 142-5 MAR 31 1975

Method A.A.

From Canadian Occidental Petroleum Ltd.
Project: 5384

Fraction Used -100 rocks.

Date March 26, 1975. 19

DRILL HOLE PA-75-6

SAMPLE NO.		Cu ppm	Zn ppm		SAMPLE NO.		Cu ppm	Zn ppm	
7492	106' - 115'	52	60		7523	410' - 420'	190	65	
93	115' - 125'	59	76		24	420' - 430'	215	87	
94	125' - 135'	97	78		25	430' - 440'	77	72	
95	135' - 145'	83	72		26	440' - 450'	92	120	
96	145' - 155'	62	80		27	450' - 459'	92	177	
97	155' - 162'	79	63		28	459' - 470'	340	1200	
98	162' - 170'	81	100		29	470' - 478'	172	150	
7499	170' - 180'	107	120		30	483' - 496'	64	113	
7500	180' - 190'	148	92		31	496' - 506'	109	410	
01	190' - 200'	311	113		32	506' - 512'	66	1180	
02	200' - 210'	126	105		33	512' - 522'	295	3310	
03	210' - 220'	68	80		34	522' - 532'	140	520	
04	220' - 230'	100	85		35	532' - 540'	13	54	
05	230' - 240'	96	103		36	540' - 550'	4	52	
06	240' - 250'	60	81		37	550' - 562'	10	50	
07	250' - 260'	85	107		38	562' - 574'	13	54	
08	260' - 270'	91	70		7539	574' - 586'	5	61	
09	270' - 280'	120	72						
10	280' - 290'	94	71						
11	290' - 300'	118	86						
12	300' - 310'	95	79						
13	310' - 320'	116	80						
14	320' - 330'	156	88						
15	330' - 340'	119	84						
16	340' - 350'	110	94						
17	350' - 360'	160	85						
18	360' - 370'	72	108						
19	370' - 380'	99	110						
20	380' - 390'	98	105						
21	390' - 400'	102	84						
7522	400' - 410'	383	99						



Geochemical Lab Report

APR 18 1975

Extraction Cu, Zn - HNO₃-HCl Report No. 176-5 J. J. B.

Method A.A. From Canadian Occidental Petroleum Ltd.,

Project: 5384

Fraction Used -100 rocks. Date April 16, 1975

DRILL HOLE PA-75-7

SAMPLE NO.		Cu ppm	Zn ppm		SAMPLE NO.		Cu ppm	Zn ppm	
7540	178'-185'	143	119		7571	485'-495'	69	104	
41	185'-195'	102	92		72	495'-505'	100	121	
42	195'-205'	161	113		73	505'-515'	48	80	
43	205'-215'	167	113		74	515'-525'	45	80	
44	215'-225'	167	89		75	525'-535'	65	80	
45	225'-235'	134	89		76	535'-545'	34	74	
45	235'-245'	205	78		77	545'-555'	45	72	
47	245'-255'	163	82		78	555'-565'	50	76	
48	255'-265'	146	100		79	565'-575'	39	84	
49	265'-275'	125	75						
50	275'-285'	129	115						
51	285'-295'	80	62						
52	295'-305'	81	92						
53	305'-315'	93	76						
54	315'-325'	101	90						
55	325'-335'	92	82						
56	335'-345'	65	70						
57	345'-355'	98	70						
58	355'-365'	48	266						
59	365'-375'	39	84						
60	375'-385'	39	91						
61	385'-395'	30	79						
62	395'-405'	63	76						
63	405'-415'	920	76						
64	415'-425'	24	65						
65	425'-435'	24	76						
66	435'-445'	61	53						
67	445'-455'	62	60						
68	455'-465'	127	167						
69	465'-475'	79	113						
70	475'-485'	84	109						

WPN



Geochemical Lab Report RECEIVED

Extraction Cu, Zn - HNO₃-HCl Report No. 177-5 APR 18 1975
 Method A.A. From Canadian Occidental Petroleum Ltd.,
Project: 5384 J. J. B.
 Fraction Used -100 rocks. Date April 16, 1975

DRILL HOLE PA-75-8

SAMPLE NO.		Cu ppm	Zn ppm		SAMPLE NO.		Cu ppm	Zn ppm	
7580	72'-80'	88	81		7611	375'-388'	70	58	
81	80'-90'	138	84		12	388'-398'	26	56	
82	90'-100'	159	68		13	398'-410'	66	64	
83	100'-110'	66	70		14	410'-422'	40	83	
84	110'-120'	138	76		15	422'-431'	100	331	
85	120'-130'	80	53		16	431'-441'	64	66	
86	130'-140'	93	50		17	441'-451'	76	48	
87	140'-150'	130	62		18	451'-458'	86	52	
88	150'-160'	125	71		19	467'-478'	74	84	
89	160'-170'	223	79		20	478'-488'	129	88	
90	170'-180'	150	66		21	488'-500'	196	93	
91	180'-190'	104	55		7622	500'-504'	108	51	
92	190'-200'	78	62						
93	200'-210'	107	44						
94	210'-220'	184	77						
95	220'-230'	237	60						
96	230'-240'	94	58						
97	240'-250'	62	55						
98	250'-264'	129	55						
7599	264'-272'	68	75						
7600	272'-280'	81	55						
01	280'-293'	92	85						
02	293'-298'	80	100						
03	304'-315'	50	264						
04	315'-325'	163	68						
05	325'-336'	113	55						
06	336'-345'	140	176						
07	345'-354'	88	160						
08	354'-365'	66	80						
09	365'-375'	70	81						
10	375'-378'	105	243						

WPH



BONDAR-CLEGG & COMPANY LTD.

370 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

MAR 5 1975

SEMI-QUANTITATIVE ANALYSIS

No: 71-5

J. J. B.

Sample No. 27426

From: Canadian Occidental Petroleum Ltd
Project: 5384

Method: XRF

Date: February 27, 1975

No. of Elements: 32

Analyst: _____

DRILL HOLE PA-75-1 186'-187'

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO ₂									X	
Al ₂ O ₃							X			
Total Fe (Fe ₂ O ₃)									X	
MgO								X		
CaO						X				
Na ₂ O					X					
K ₂ O				X						
TiO ₂				X						
MINOR ELEMENTS (%)										
V		X								
Cr					X					
Mn							X			
Co				X						
Ni		X								
Cu		X								
Zn		X								
As	X									
Sr	X									
Y	X									
Zr	X									
Nb	X									
Mo	X									
Ag	X									
Ir	X									
Sb	X									
Ba	X									
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
	X									

W/W



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 87-5

Sample No. 27429

From: Canadian Occidental Petroleum Ltd

Method: XRF

Project: 5384

Date: March 5, 1975

No. of Elements: 32

Analyst: _____

DRILL HOLE PA-75-2 335'-340'

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO ₂									X	60%
Al ₂ O ₃									X	
Total Fe (Fe ₂ O ₃)									X	
MgO							X			
CaO								X		
Na ₂ O						X				
K ₂ O							X			
TiO ₂						X				
TRACE ELEMENTS (%)										
V		X								
Cr					X					
Mn			X							
Co	X									
Ni	X									
Cu		X								
Zn		X								
As	X									
Sr		X								
Y	X									
Zr		X								
Nb	X									
Mo			X							
Ag	X									
Sn	X									
Pb	X									
Ba		X								
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

WPH



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 121-5

Sample No. 27435

From Canadian Occidental Petroleum Ltd
Project: 5384

Method: XRF

Date: March 24, 19 75

No. of Elements: 32
DRILL HOLE PA-75-4

Analyst: 161'-164'

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO ₂									X	
Al ₂ O ₃									X	
Total Fe (Fe ₂ O ₃)									X	
MgO							X			
CaO								X		
Na ₂ O							X			
K ₂ O							X			
TiO ₂						X				
TR										
MINOR ELEMENTS (%)										
V		X								
Cr			X							
Mn					X					
Co		X								
Ni		X								
Cu		X								
Zn				X						
As	X									
Sr		X								
Y	X									
Zr		X								
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Pb	X									
Ba			X							
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 123-5

Sample No. 27446

From Canadian Occidental Petroleum Ltd
Project: 5384

Method: XRF

Date: March 24, 19 75

No. of Elements: 32

Analyst: _____

DRILL HOLE PA-75-5 480'-490'

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO ₂									X	
Al ₂ O ₃								X		
Total Fe (Fe ₂ O ₃)									X	
MgO								X		
CaO	RECEIVED							X		
Na ₂ O				X						
K ₂ O	MAF: 81-1975							X		
TiO ₂	J. J. B.					X				
TRACE ELEMENTS (%)										
V		X								
Cr				X						
Mn					X					
Co		X								
Ni		X								
Cu		X								
Zn			X							
As	X									
Sr		X								
Y	X									
Zr		X								
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Pb	X									
Ba			X							
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									



BONDAR-CLEGG & COMPANY LTD.

784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: A-208-75

Sample No. 27478

From: Canadian Occidental Petroleum Ltd
Project: 5384

Method: XRF

Date: April 21, 1975

No. of Elements: 32

Analyst: UO-

DRILL HOLE PA-75-8 460'-467'

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO ₂									X	
Al ₂ O ₃									X	
Total Fe (Fe ₂ O ₃)									X	
MgO							X			
CaO								X		
Na ₂ O							X			
K ₂ O							X			
TiO ₂						X				
TR & ELEMENTS (%)										
V		X								
Cr					X					
Mn					X					
Co		X								
Ni			X							
Cu				X						
Zn			X							
As	X									
Sr		X								
Y	X									
Zr		X								
Nb	X									
Mo		X								
Ag	X									
n	X									
Sb	X									
Ba			X							
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
	X									



RECEIVED
APR 8 1975
J. J. B.

DIAMOND DRILLING COMPANY

P.O. BOX 815 - J9X - 3P9 TELEPHONE: 819-762-3528 - ROUYN, QUE.

Canadian Occidental Petroleum Limited
Suite 801, 161 Eglinton Avenue East
Toronto, Ontario
M4P 1J5

DATE March 31, 1975
INVOICE NO. 318
REF. NO. 074-129
1/2 MM. SF LAKE ABITIBI ONT

MARCH 16 - 31 SURFACE DRILLING

<u>PIPING & DRILLING</u>						
PA-75-7 From	90 to 178	88 "	14.85	1306.80		
	178 to 500	322 ✓	9.85		3171.70 ✓	
	500 to 575	75 ✓	10.35		776.25 ✓	
PA-75-8	0 to 40	40 ✓	9.85	394.00 ✓		
	40 to 72	32 ✓	12.85	411.20 ✓		
	72 to 436	364	9.85		3585.40 ✓	
Piping		160		2112.00 ✓		
Drilling		761			7533.35 ✓	
		<u>921</u>				9,645.35 ✓
<u>PULLING CASING</u>						
PA-75-7 Man-hours		32 ✓	11.00	352.00		
Machine hours		8	10.00	80.00		
				<u>432.00</u>		
Plus 15%				64.80	496.80	
<u>TESTING</u>						
PA-75-7 at 200' & 522'		2 ✓	22.00		44.00 ✓	
<u>CORE TRAYS</u>						
"AQ" size		100 ✓	3.50		350.00 ✓	
<u>MOVING</u>						
Deom PA-75-7 to PA-75-8 (9900')						
Man-hours		68	11.00	748.00		
Tractor hours		13	14.00	182.00		
				<u>930.00</u>		
Plus 15%				139.50		
				<u>1069.50</u>		
	$\frac{1069.50 \times (9900' \text{ O } 1000')}{9900'}$	=			961.47	1,852.27
						<u>\$11,497.62</u>

[Handwritten Signature]

306001-5385-309-11,497.62

HOSKING

APR 10 1975

J. J. E.

DIAMOND DRILLING CO. LTD.

P.O. BOX 815 - J9X - 3P9

TELEPHONE: 819-762-3528 - ROUYN, QUE.

Canadian Occidental Petroleum Limited.

- Suite 801, 161 Eglinton Avenue East
- Toronto, Ontario.
- M4P 1J5

DATE April 7, 1975

INVOICE NO. 401

REF. NO. 074-129

1/4 MM SF LAKE ABITIBI AREA QU.

APRIL 1 - 4 SURFACE DRILLING

<u>DRILLING</u>				
PA-75-8	From 436 to 500	64	9.85	630.40
	500 to 509	9	10.35	93.15
		<u>73'</u>		723.55
<u>TESTING</u>				
PA-75-8	at 187' & 498'	2	22.00	44.00
<u>PULLING CASING</u>				
PA-75-8	Man hours	20	11.00	220.00
	Machine hours	4	10.00	40.00
				<u>260.00</u>
Plus 15%				<u>39.00</u>
				299.00 *
<u>MEALS</u>				
Served to your personnel		52	2.50	130.00
				473.00
				<u>897.55</u>
				1196.55

* Pulling casing from last hole is part of demobilization. Refer to clause 13 in contract

306001-5385-309-#897.55

R. [Signature]
J. [Signature]



~~DIAMOND DRILLING COMPANY LTD.~~

P.O. BOX 815 - J9X - 3P9

~~DIAMOND DRILLING COMPANY LTD.~~ TELEPHONE: 819-762-3528 - ROUYN, QUE.

Canadian Occidental Petroleum Limited
 Suite 801, 161 Eglinton Avenue East
 Toronto, Ontario
 M4P 1J5

DATE March 15, 1975

INVOICE NO. 309/2

REF. NO.

Balance brought forward 20,032.99
~~\$20,266.19~~

TESTING

PA-4-75 at 200' & 475'	2		
PA-5-75 at 237' & 450'	2		
PA-6-75 at 200' & 557'	2		
	<u>6</u>	22.00	132.00

MEALS

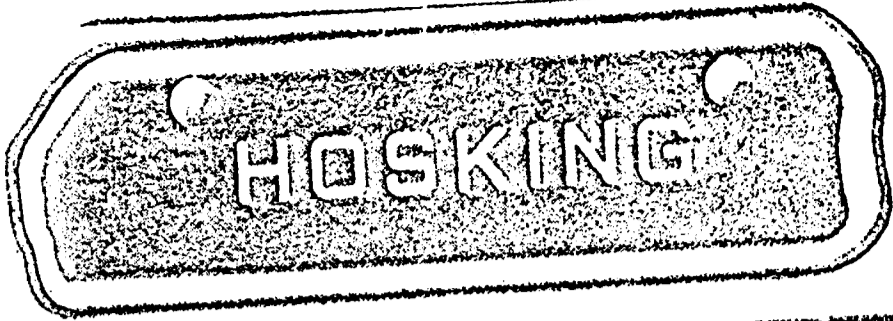
Served to your personnel	84	2.50	<u>210.00</u>	<u>342.00</u>
--------------------------	----	------	---------------	---------------

~~\$20,608.19~~
 20,374.99

R. Robinson

306001-5385-309-20,374.99

J. Brown



DEAR ANDERSON DRILLING COMPANY

P.O. BOX 815 - J9X - 3P9

TELEPHONE: 819-762-3528 - ROUYN, QUE.

Canadian Occidental Petroleum Limited
 Suite 801, 161 Eglinton Avenue East
 Toronto, Ontario
 M4P 1J5

DATE March 15, 1975

INVOICE NO. 309

REF. NO. 074-129

1/2 MM SF. LAKE ABITIBI ONT

MARCH 1 - 15 SURFACE DRILLING

PIPING & DRILLING							
PA-4-75	From 0 to 18	18			9.85	177.30	
	18 to 475		457		9.85		4501.45
PA-5-75	0 to 40	40			9.85	394.00	
	40 to 80	40			12.85	514.00	
	80 to 90	10			14.85	148.50	
	90 to 500		410		9.85		4038.50
	500 to 564		64		10.35		662.40
PA-6-75	0 to 40	40			9.85	394.00	
	40 to 80	40			12.85	514.00	
	80 to 106	26			14.85	386.10	
	106 to 500		394		9.85		3880.90
	500 to 586		86		10.35		890.00
PA-7-75	0 to 40	40			9.85	394.00	
	40 to 80	40			12.85	514.00	
	80 to 90	10			14.85	148.50	
			304			3584.40	
Piping							
Drilling							
			1411				
			1715'				
							17,557.65
							17,557.75

PULLING CASING	MAN-HRS	MACH-HRS		
PA-4-75	12	3		
PA-5-75	20	6		
PA-6-75	42	7		
Man-hours	74			
Machine hours		16	11.00	814.00
			10.00	160.00
				974.00
				1120.10

Plus 15%

MOVING	MAN-HRS	MACH-HRS		
From PA-4-75 to PA-5-75 (1400')	64		11.00	704.00
Man-hours	68		14.00	748.00
Tractor-hours	10			140.00
				844.00 plus 15% = 970.60 x 400 = 277.31
				1400
From PA-5-75 to PA-6-75 (3000')	78		11.00	858.00
Man-hours	16		14.00	224.00
Tractor-hours				1082 plus 15% = 1244.30 x 2000 = 829.5
				3000
From PA-6-75 to PA-7-75 (1800')	34		11.00	374.00
Man-hours	54		14.00	594.00
Tractor hours	8			112.00
				486.00 + 15% = 558.90 x 800 = 247.12
				1800
				2676.00
				101.40
				3077.40
				1855.24
				2475.34
				2708.74

$\frac{3077.40 \times (6200 - 3000)}{6200} =$

20,266.19
 20,032.99

Balance Carried forward.....

J.B. Brunner

Encl. (1)

HOSKING DIAMOND DRILLING CO. LTD.
DAILY DRILLING REPORT

Job No.

Contract Name: *Canox*

Date *13-03-75* Shift *-12*

Pa-72

Mobilisation - Demobilization - Camps - Service

DRILLING

RUNNERS		HELPERS		RUNNERS		HELPERS	
				<i>E. St. Germain</i>			<i>L. Guenette</i>

Tractor Hours:

Hole Depth { At End of Shift *586*
At Start of Shift *557*
Total *29*

Moving Between Holes

RUNNERS		HELPERS	
<i>P. L. LANTIERE</i>	<i>8</i>	<i>D. LANTIERE</i>	<i>7</i>
<i>P. St. Germain</i>	<i>2</i>	<i>L. Guenette</i>	<i>2</i>

Overburden

Distance:
Tractor Hours:
From Hole No. to Hole No.

RUNNERS		HELPERS	

Hole Depth { At End of Shift.....
At Start of Shift.....
Mud Total.....

Water Lines Starting Draining Defrosting
Hauling Pumpmen Distance

RUNNERS		HELPERS	

Extras

Commenting Working for Engineer
Testing Waiting for Engineer
Break Down Time

BIT NO.	FROM	TO	TOTAL
<i>10514</i>	<i>557</i>	<i>586</i>	<i>29</i>

RUNNERS		HELPERS	

Depth of Test:

LEFT IN HOLE

Pags of Cement:
Core Trays:
Core Boxes:

Gas or Diesel Fuel Consumed

	Gals Gas	Gals Fuel
DRILLS (Machine)		<i>5</i>
PUMPS		<i>2</i>
TRACTORS		
COIL STOVE		
MISC.		

Pipe	Casing					Casing Shoes			
	3"	Ex	Ax	Bx	Nx	H	Ex	Ax	Bx

REMARKS: *Hole finished*

Signature:
Company Rep.

[Handwritten Signature]

HOSKING DIAMOND DRILLING CO. LTD.
DAILY DRILLING REPORT

Job No. _____

Contract Name: CANOXY Date 15/3/75 Shift Day

Mobilisation - Demobilization - Camps - Service

RUNNERS		HELPERS	

RUNNERS

HELPERS

DRILLING

Tractor Hours:

Moving Between Holes

RUNNERS

HELPERS

<u>E. ST. FELAIS</u>	<u>5</u>	<u>L. GUENETTE</u>	<u>5</u>
<u>D. LA FONTAINE</u>	<u>5</u>	<u>D. LA FONTAINE</u>	<u>5</u>

Hole Depth

At End of Shift.....
At Start of Shift.....
Total.....

Overburden

RUNNERS

HELPERS

<u>E. ST. FELAIS</u>	<u>50</u>	<u>L. GUENETTE</u>	<u>05</u>
<u>D. LA FONTAINE</u>	<u>50</u>	<u>D. LA FONTAINE</u>	<u>05</u>

Distance:
Tractor Hours 5
From Hole No. PA 174 to Hole No. PA 175

- Water Lines Starting Draining Defrosting
Hauling Pumps Distance

RUNNERS

HELPERS

Hole Depth

At End of Shift 90
At Start of Shift 0
Med Total 90 NW

Extras

- Cementing Working for Engineer
Testing Waiting for Engineer
Break Down Time

RUNNERS

HELPERS

BIT NO. FROM TO TOTAL

BIT NO.	FROM	TO	TOTAL

Depth of Test:

Casing

Casing Shoes

Pipe	Casing					Casing Shoes				
3"	Ex	Ax	Bx	Nx	H	Ex	Ax	Bx	Nx	

LEFT IN HOLE

Bags of Cement: _____
Core Trays: _____
Core Boxes: _____

Cas or Diesel Fuel Consumed

	Gals Gas	Gals Fuel
DRILLS (Machine)		
PUMPS		
TRACTORS	<u>5</u>	
COIL STOVE		
MISC.		

REMARKS: _____

Signature: _____
Company Rep.

[Handwritten Signature]

HOSKING DIAMOND DRILLING CO. LTD.
DAILY DRILLING REPORT

Sheet No. *P*

Contract Name: *CANADA* Date: *14/3/55* Shift: *Day*

Mobilisation - Demobilization - Camps - Service

RUNNERS		HELPERS	

DRILLING

RUNNERS		HELPERS	

Tractor Hours:
Moving Between Holes

Hole Depth { At End of Shift.....
At Start of Shift.....
Total.....

RUNNERS		HELPERS	
<i>J. St. Germain</i>	<i>3</i>	<i>L. Gouette</i>	<i>3</i>
<i>J. LaCantine</i>	<i>3</i>	<i>D. LaCantine</i>	<i>3</i>
<i>P. Houle</i>	<i>1</i>	<i>G. Lapierre</i>	<i>1</i>

Overburden

RUNNERS		HELPERS	
<i>J. St. Germain</i>	<i>7</i>	<i>L. Gouette</i>	<i>7</i>
<i>J. LaCantine</i>	<i>7</i>	<i>D. LaCantine</i>	<i>7</i>
<i>P. Houle</i>	<i>7</i>	<i>G. Lapierre</i>	<i>7</i>

Distance: *1700*
Tractor Hours: *3*
From Hole No. *PA-75-6* to Hole No. *PA-75-7*

Hole Depth { At End of Shift.....
At Start of Shift.....
Mod Total.....

Water Lines Starting Draining Defrosting
Hauling Pumpmen Distance

RUNNERS		HELPERS	

Extras
Cementing Working for Engineer
Testing Waiting for Engineer
Break Down Time

BIT NO.	FROM	TO	TOTAL

RUNNERS		HELPERS	

LEFT IN HOLE
Bags of Cement:
Core Trays:
Core Boxes:
Gas or Diesel Fuel Consumed

	Gals Gas	Gals Fuel
DRILLS (Machine)		<i>5</i>
PUMPS		
TRACTORS	<i>3</i>	
COIL STOVE		
MISC.		

Pipe	Casing					Casing Shoes			
	Ex	Ax	Bx	Nx	H	Ex	Ax	Bx	Nx
3"									

REMARKS: *pull casing*

Signature:
Company Rep.

J. Brunner



DIAMOND DRILLING COMPANY

P.O. BOX 815 - J9X - 3P9

TELEPHONE: 819-762-3528 - ROUYN, QUE.

Canadian Occidental Petroleum Limited
 Suite 801 - 161 Eglinton Avenue East
 Toronto, Ontario
 M4P 1J5

DATE March 24, 1975
 Credit
 INVOICE NO. 311
 REF. NO. 074-129

RECEIVED

MAR 27 1975

J. J. B.

To credit you with the following:

PIPING & DRILLING

PA-3-75 From	0	to	40	40	9.85	394.00	
	40	to	80	40	12.85	514.00	
	80	to	92	12	14.85	178.20	
	92	to	152	60	9.85	591.00	
Piping				92		1086.20	
Drilling				60		591.00	
				<u>152</u>			1,677.20 \

MOVING

From PA-2-75 to PA-3A-75 (1300')							
Man-hours			60	11.00	660.00 \		
Tractor-hours			10	14.00	140.00 \		
From PA-3-75 to PA-4-75 (2200')							
Man-hours			70	11.00	770.00		
Tractor hours			7	14.00	98.00		
					1668.00		
Plus 15%					250.20		
					1918.20		

$1918.20 \times \frac{(3500 - 2000)}{3500} = 822.09$

Previously charged = 1,840.00

1,017.91 \

Total Credit

\ \$2,695.11 CR

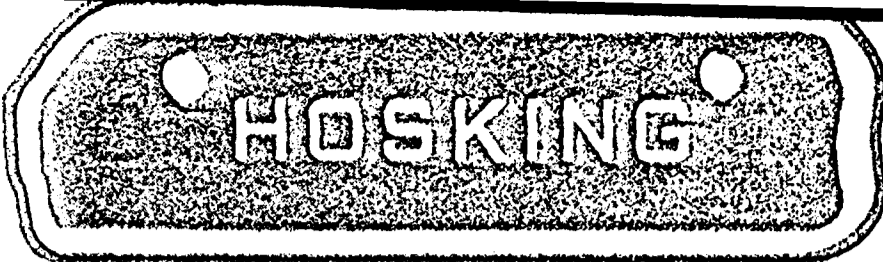
Total Credit Taken by Company

2,788.60

Due Hosking

\$ 93.49

306001 - 5385-309 - \$ 93.49



DIAMOND DRILLING COMPANY LIMITED

P.O. BOX 815 - J9X - 3P9

TELEPHONE: 819-762-3528 - ROUYN, QUE.

• Canadian Occidental Petroleum Limited
 • Suite 801, 161 Eglinton Avenue East
 • Toronto, Ontario
 • MLP 1J5

DATE April 15, 1975

Credit INVOICE NO. 410

REF. NO. 074-129

To credit you with the following:-

Re - Invoice No. 309

PIPING & DRILLING
Should have been charged
Charged

17557.65
17557.75

0.10 CR

MOVING
Should have been charged
Charged

1355.24
1588.34

233.10 CR

Re - Invoice No. 401

PULLING CASING
Should have been charged
Charged

0

NIL
299.00

299.00 CR

Total Credit

\$ 532.20 CR

RECEIVED

APR 23 1975

J. J. B.

HOSKING

DEPARTMENT OF REVENUE

P.O. BOX 815 - J9X - 3P9

TELEPHONE: 819-762-3528 - ROUYN, QUE.

- Canadian Occidental Petroleum Limited,
- Suite 801, 161 Eglinton Avenue,
- Toronto 12, Ont.

DATE Feb 28th/75
Credit No : 219
XXXXXXXXXX

REF. NO. 074-129

TO CREDIT YOU WITH THE FOLLOWING

MOVING

Overcharged - Re 15%

\$24.99cr



DIAMOND DRILLING COMPANY LTD.

P.O. BOX 815 - J9X - 3P9

TELEPHONE: 819-762-3528 - ROUVN, QUE.

- Canadian Occidental Petroleum Limited
- Suite 801, 161 Eglinton Avenue East
- Toronto, Ontario
- M4P 1J5

DATE February 28, 197

INVOICE NO. 216

REF. NO. 074-129

1/2 MM SF LAKE ABITIBI ONT

FEBRUARY 16 - 28 SURFACE DRILLING

PIPING & DRILLING

PA-2-75 From	325 to 478	153	9.85	1507.05	
PA-3A-75	0 to 40	40	9.85	394.00	
	40 to 80	40	12.85	514.00	
	80 to 152	72	14.85	1069.20	
PA-3-75	0 to 40	40	9.85	394.00	
	40 to 80	40	12.85	514.00	
	80 to 92	12	14.85	178.20	2777.70
152-92 to 434		282	9.85	3368.70	
		342			
Piping		244		3063.40	4284.75
Drilling				1977.20	4875.75
		495			
		739			
					7,939.15
					6,261.95

PULLING CASING

	MAN-HRS	MACH-HRS			
PA-2-75	20	4			
PA-3A-75	25	5			
PA-3-75	48	8			
Man-hours	93		11.00	1023.00	
Machine hours		17	10.00	170.00	
				1193.00	
Plus 15%				178.95	1371.95

TESTING

PA-2-75 at 250' & 468'	2				
PA-3-75 at 150' & 434'	2				
	4		22.00		88.00

MOVING

From PA-2-75 to PA-3A-75 (1300')					
Man-hours	60	11.00	660.00	760 X 300	17538
Tractor hours	10	10.00	100.00	1800	
From PA-3A-75 to PA-3-75 (400')					
Man-hours	46	11.00	506.00	606.00	OK DRA
Tractor hours	10	10.00	100.00		
From PA-3-75 to PA-4-75 (2200')					
Man-hours	70	11.00	770.00	840 X 1300	458.13
Tractor hours	7	10.00	70.00	2200	
			1334.56	2206.00	
Plus 15%			135.94	330.90	2536.90
					1425.50
					2,935.45
					3,926.85
					9,147.40
					811,935.00

306001-5385-309-9,147.40

[Handwritten signature]

HOSKING

D. W. HOSKING & SONS LTD.

P.O. BOX 815 - J9X - 3P9 TELEPHONE: 819-762-3528 - ROUVN, QUE.

• Canadian Occidental Petroleum Limited
 • Suite 801, 161 Eglinton Avenue East
 • Toronto 12, Ontario

DATE February 15, 1975
 INVOICE NO. 207
 REF. NO. 074-129
 1/2 MM. SF LAKE ABITIBI ONT

FEBRUARY 1 - 15 SURFACE DRILLING

<u>PIPING & DRILLING</u>								
PA-1-75	From	0	to	40	40 ✓	9.85 ✓	394.00 ✓	
		40	to	80	40 ✓	12.85 ✓	514.00 ✓	
		80	to	96	16 ✓	14.85 ✓	237.60 ✓	
		96	to	379	283 ✓	9.85 ✓	2787.55 ✓	
PA-2-75		0	to	40	40 ✓	9.85 ✓	394.00 ✓	
		40	to	48	8 ✓	12.85 ✓	102.80 ✓	
		48	to	325	277 ✓	9.85 ✓	2728.45 ✓	
				144			1642.40 ✓	
				560			5516.00	
				704				7,158.40
Piping								
Drilling								

<u>TESTING</u>	PA-1-75 at 379'	1		22.00		22.00	
----------------	-----------------	---	--	-------	--	-------	--

<u>PULLING CASING</u>						
PA-1-75	Man-hours	32		11.00	352.00 ✓	
	Machine hours	8		10.00	80.00 ✓	
					432.00	
Plus 15%					64.80	496.80

<u>MOVING</u>						
From PA-75-1 to PA-75-2 (1200')	Man-hours	128		11.00	1408.00 ✓	
	Tractor hours	12		14.00	168.00 ✓	
					1576.00	
Plus 15%					386.40	236.40
					1962.40	1812.40
						327.07
						302.07
						1812.40
						327.07
						302.07

<u>WATER SUPPLY</u>						
PA-75-1 (1200')	Man-hours to start	12 ✓		11.00	132.00	
	Man-hours to drain	17		11.00	187.00	
	Man-hours to defrost	28		11.00	308.00	
	Fuel oil for coil stove	265 ✓		0.65	172.25	
					799.25	
Plus 15%					119.88	919.13
					45.64	349.89

<u>CORE TRAYS</u>	"AQ" Size	150		3.50	525.00	
-------------------	-----------	-----	--	------	--------	--

<u>MEALS</u>	Served to your personnel	70		1.50	105.00	
--------------	--------------------------	----	--	------	--------	--

~~1,800.76~~
~~2,395.00~~
~~59,553.10~~
8,959.16

306001 - 5385 - 309 - 8,959.16

G. P. ...

\$ 8,959.16



DIAMOND DRILLING CO. LTD.

P.O. BOX 815 - J9X - 3P9

TELEPHONE: 819-762-3528 - ROUYN, QUE.

Canadian Occidental Petroleum Limited
Suite 801, 161 Eglinton Avenue East
Toronto 12, Ontario

RECEIVED

FEB 26 1975

J. J. B.

DATE February 15, 1975

Credit
INVOICE NO. 209

REF. NO. 074-129

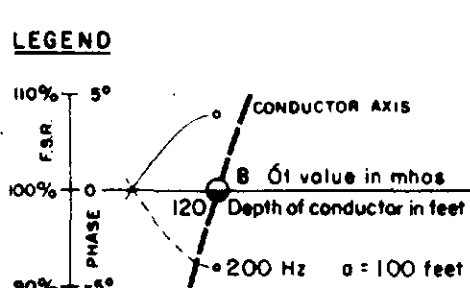
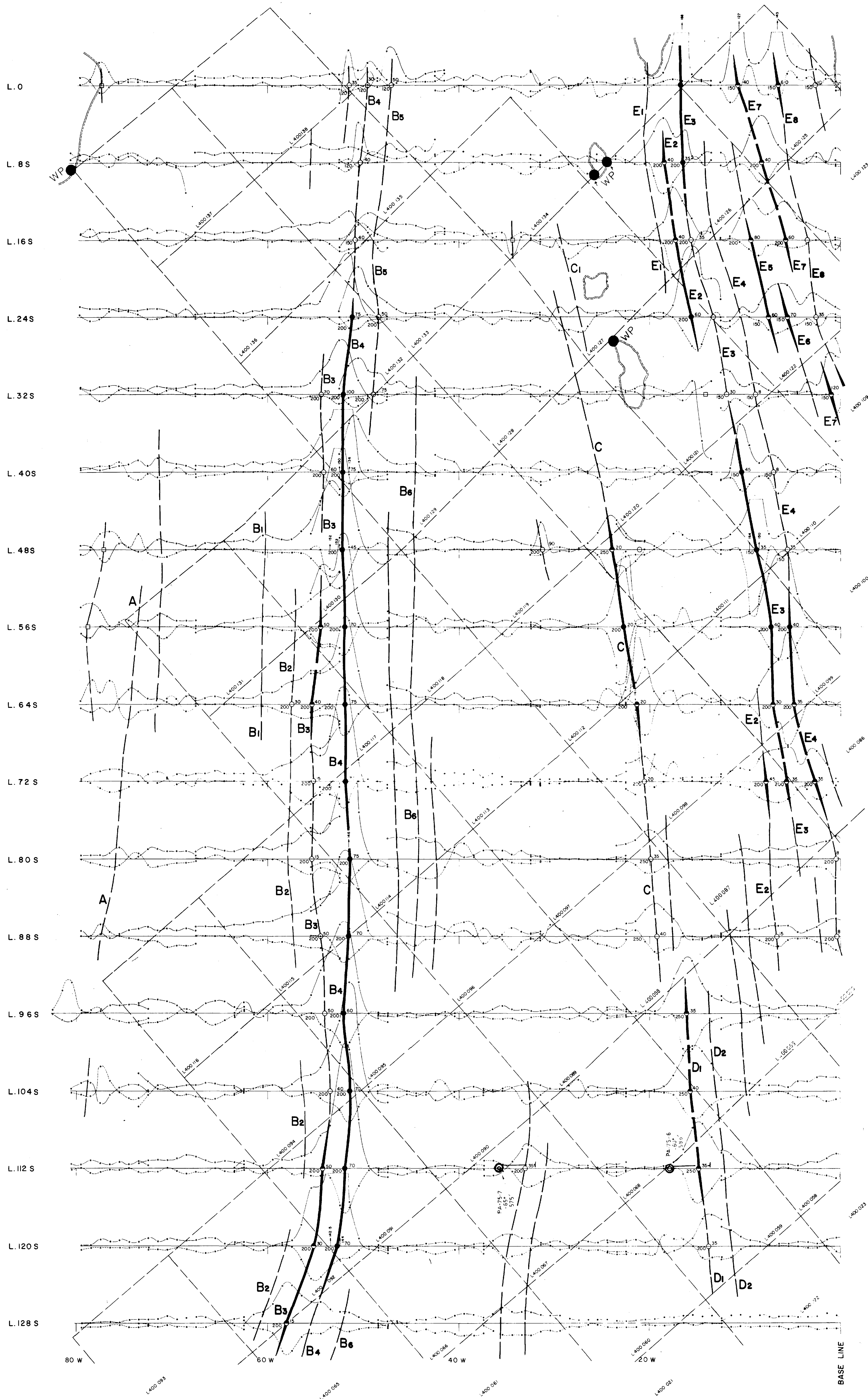
To credit you with the following:-

Invoice No. 207

WATER SUPPLY

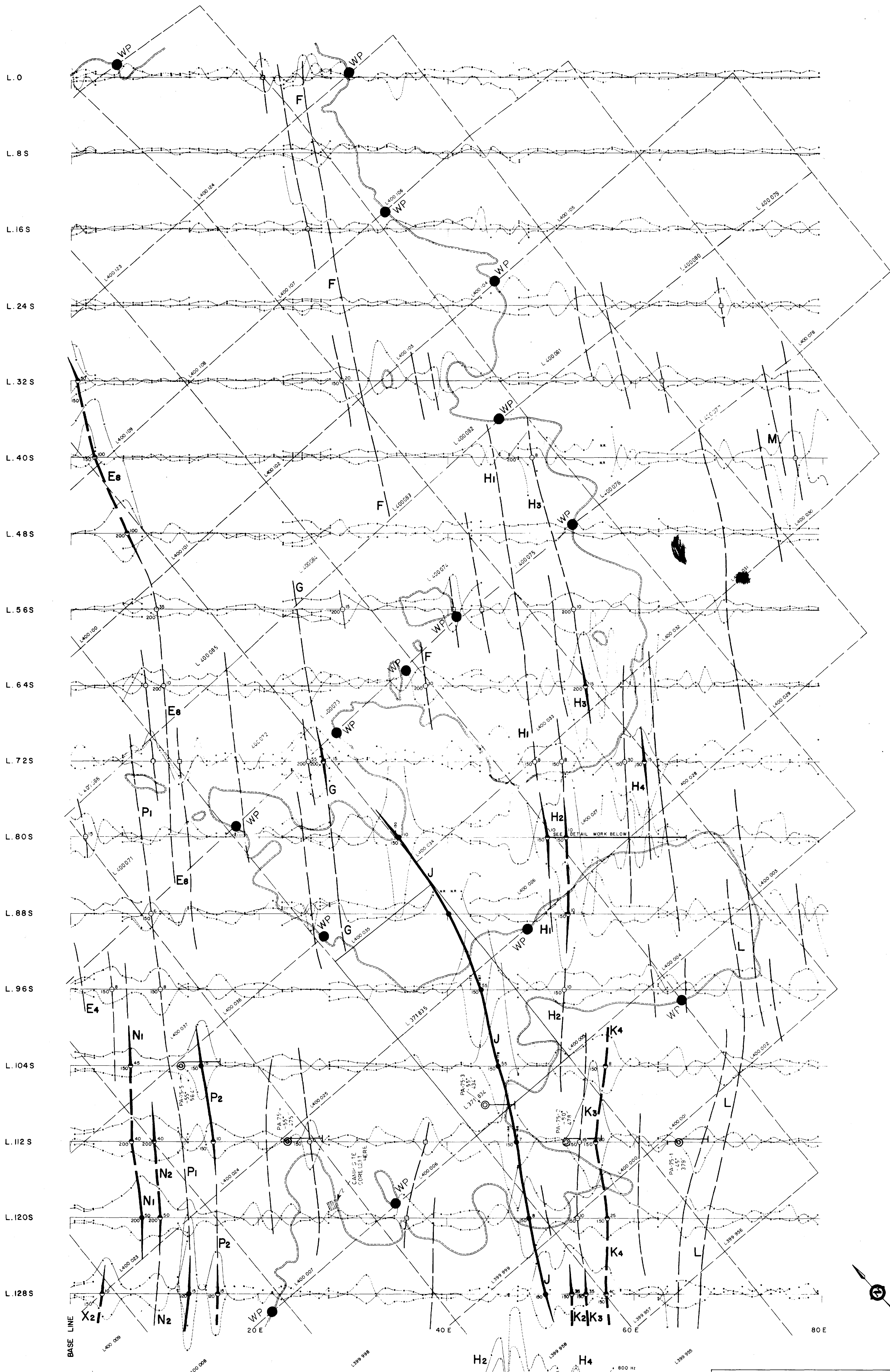
Man-hours to drain	17	11.00	187.00
Man-hours to defrost	28	11.00	308.00
			<u>495.00</u>
	Plus 15%		<u>74.25</u>

\$ 569.25 CR



200

CANADIAN OCCIDENTAL PETROLEUM LIMITED	
NORTHEAST BAY AREA - LAKE ABITIBI, ONT.	
TURAM ELECTROMAGNETIC SURVEY AND LOCATIONS OF DIAMOND DRILL HOLES SCINTREX SE-71 ELECTROMAGNETIC	
SCALE: 1" = 400'	
SURVEY BY SCINTREX SURVEYS LTD. 1974	PLATE I



L. 0
L. 8 S
L. 16 S
L. 24 S
L. 32 S
L. 40 S
L. 48 S
L. 56 S
L. 64 S
L. 72 S
L. 80 S
L. 88 S
L. 96 S
L. 104 S
L. 112 S
L. 120 S
L. 128 S

BASE LINE

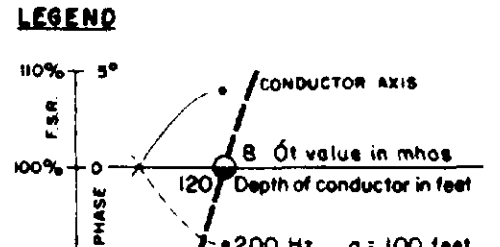
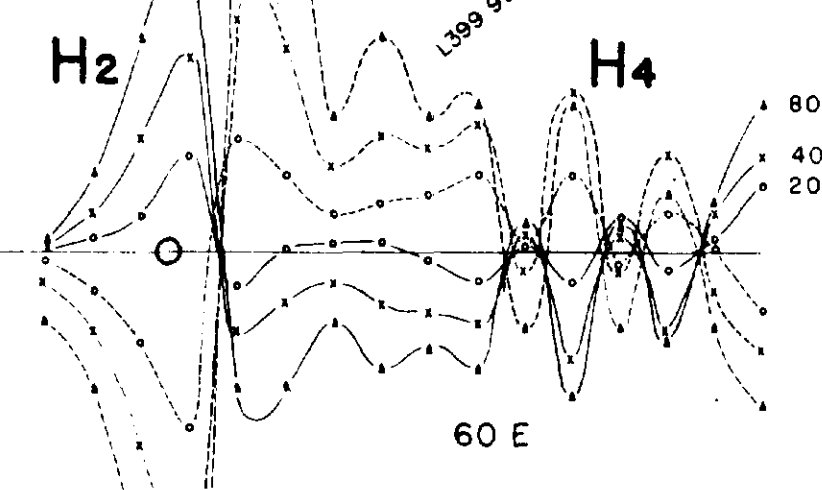
L. 80 S

40 E

60 E

80 E

DETAIL WORK



● WP : WITNESS POSTS

CANADIAN OCCIDENTAL PETROLEUM LIMITED

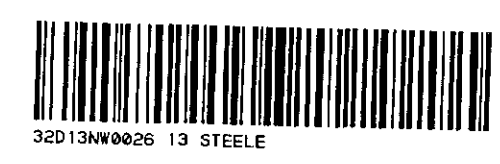
NORTHEAST BAY AREA - LAKE ABITIBI, ONT.

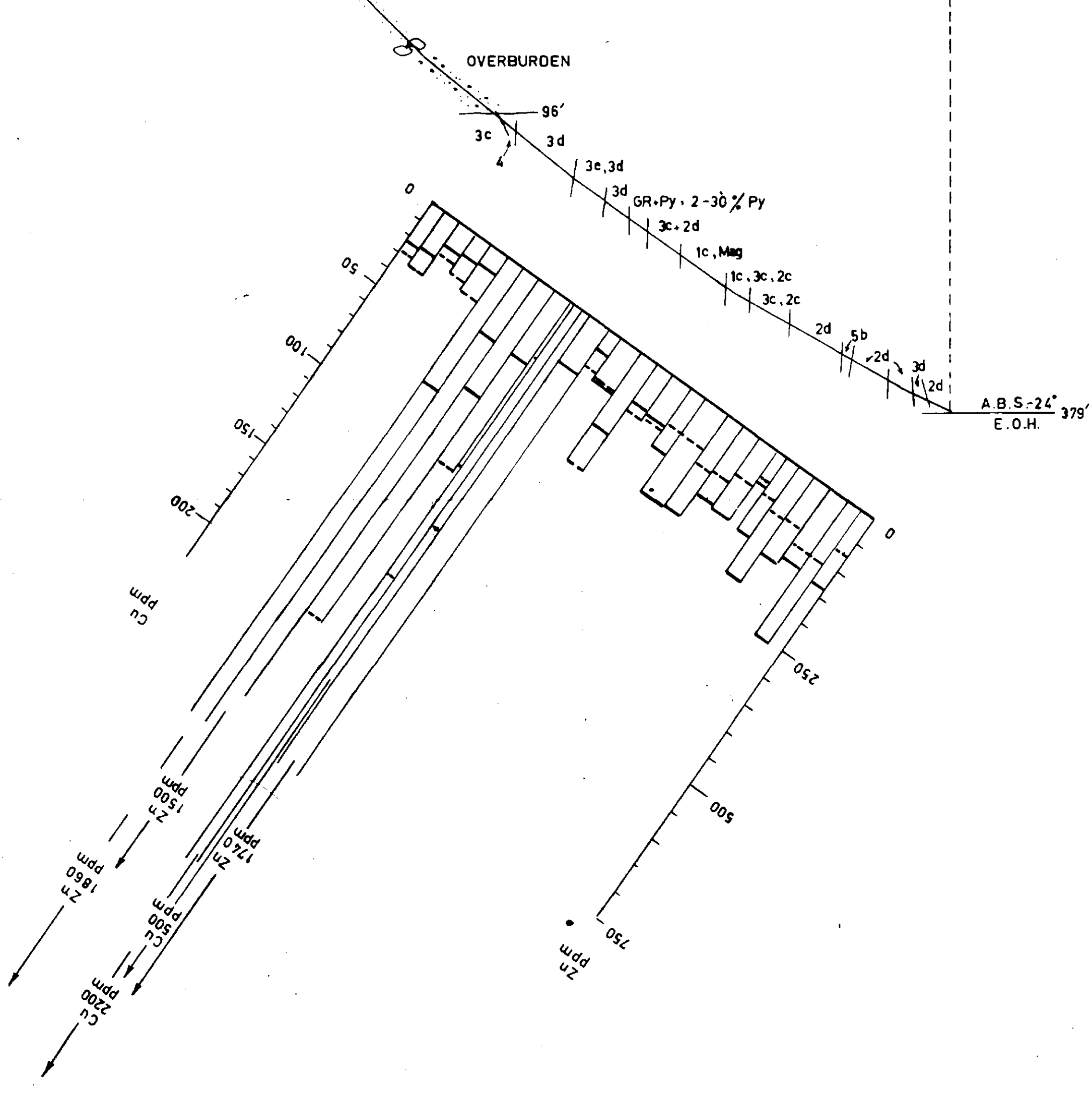
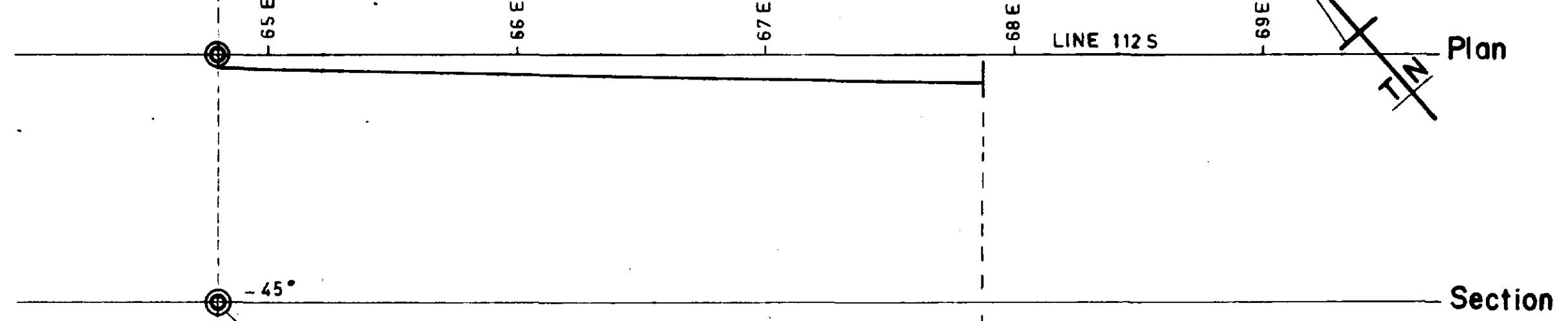
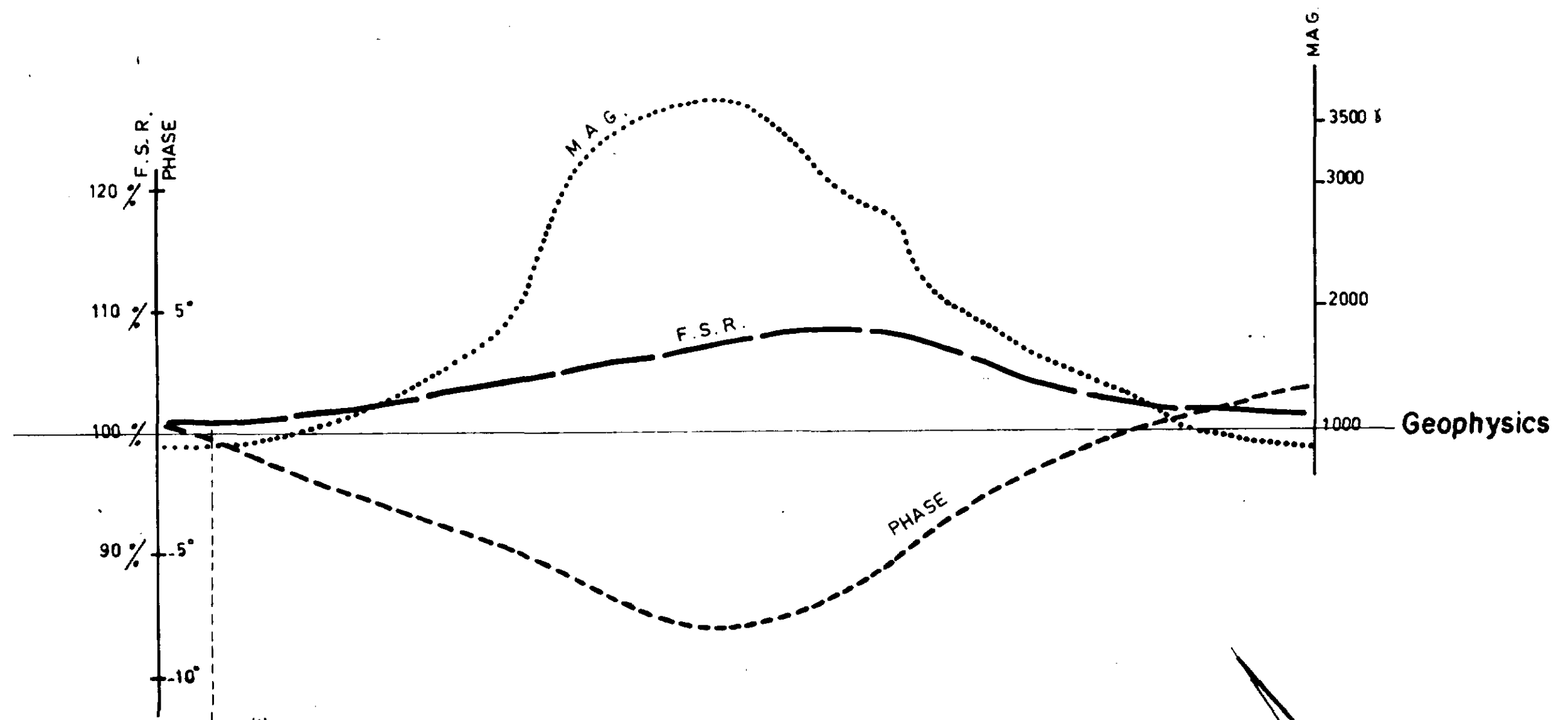
TURAM ELECTROMAGNETIC SURVEY
AND LOCATIONS OF DIAMOND DRILL HOLES
SCINTREX SE-71 ELECTROMAGNETIC

SCALE: 1" = 400'

SURVEY BY
SCINTREX SURVEYS LTD.
1974

PLATE 2





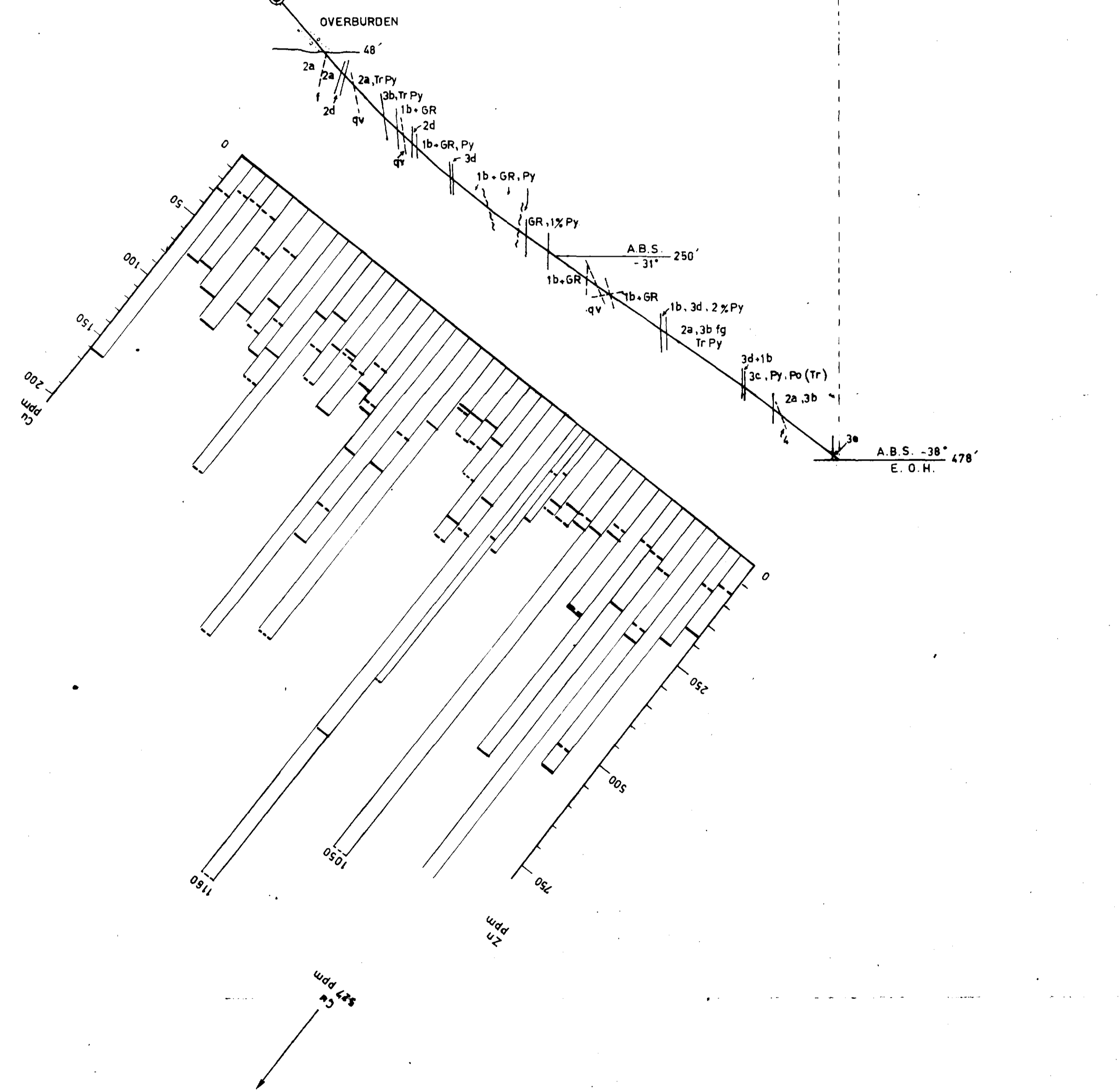
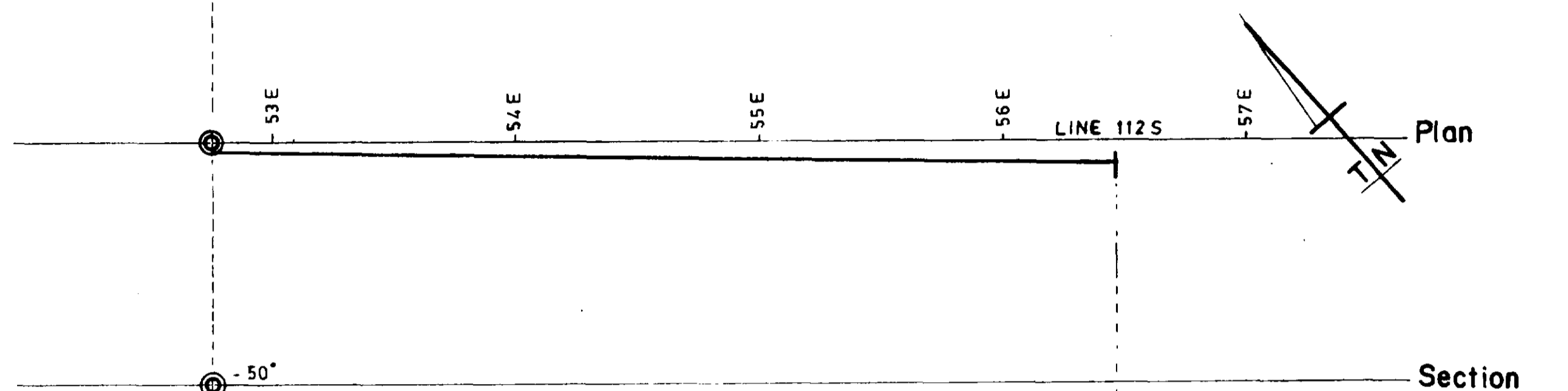
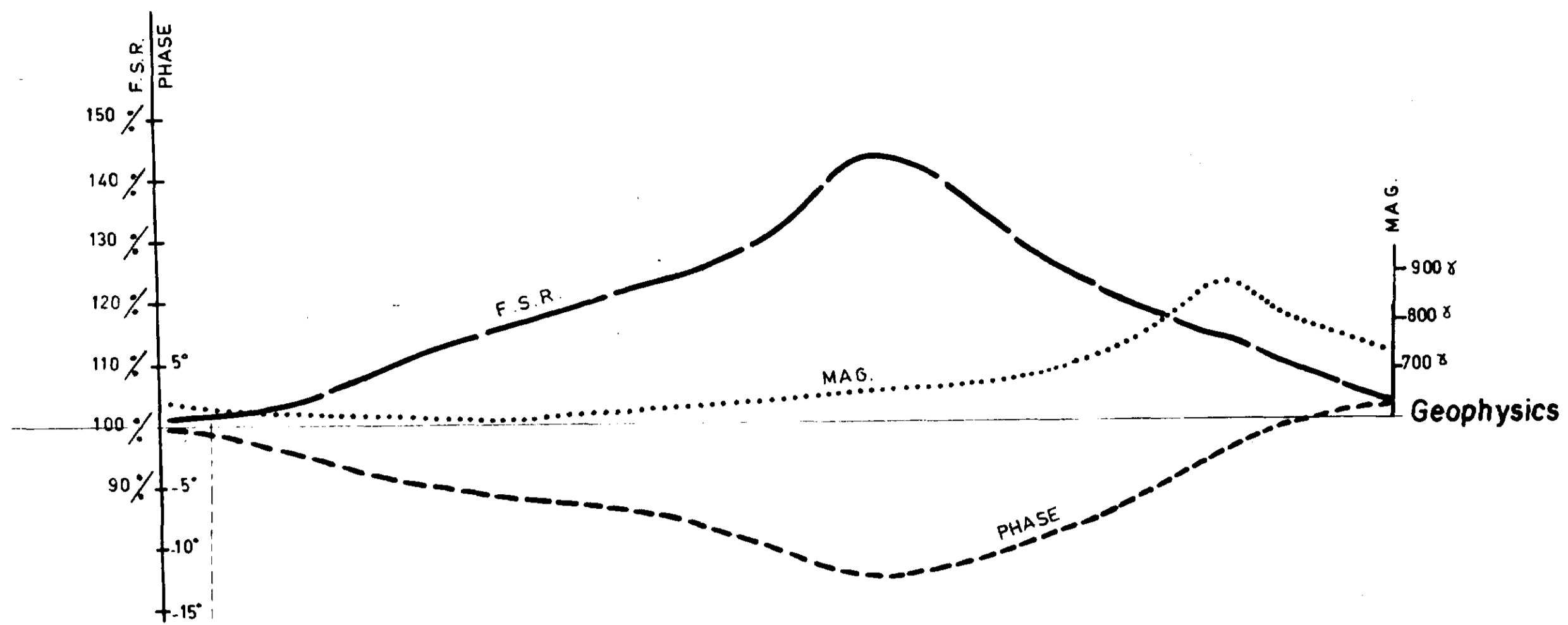
FOR LEGEND SEE APPENDIX I



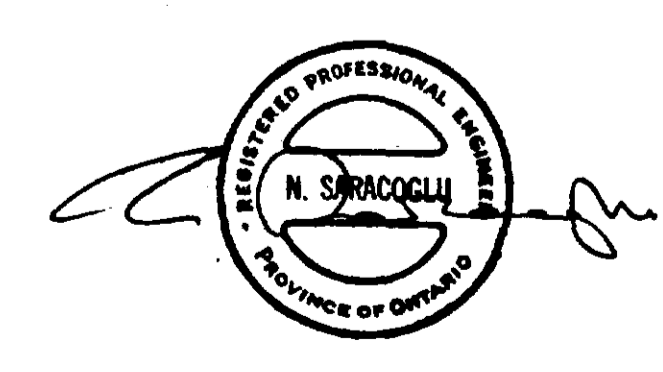
CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT ABITIBI
35-D-13
RESULTS—DDH PA-75-1
CLAIM No L 399 956
SCALE 50 0 50 100 feet



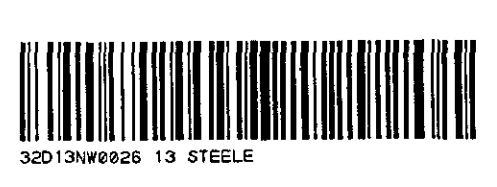
#250 LARDER LAKE

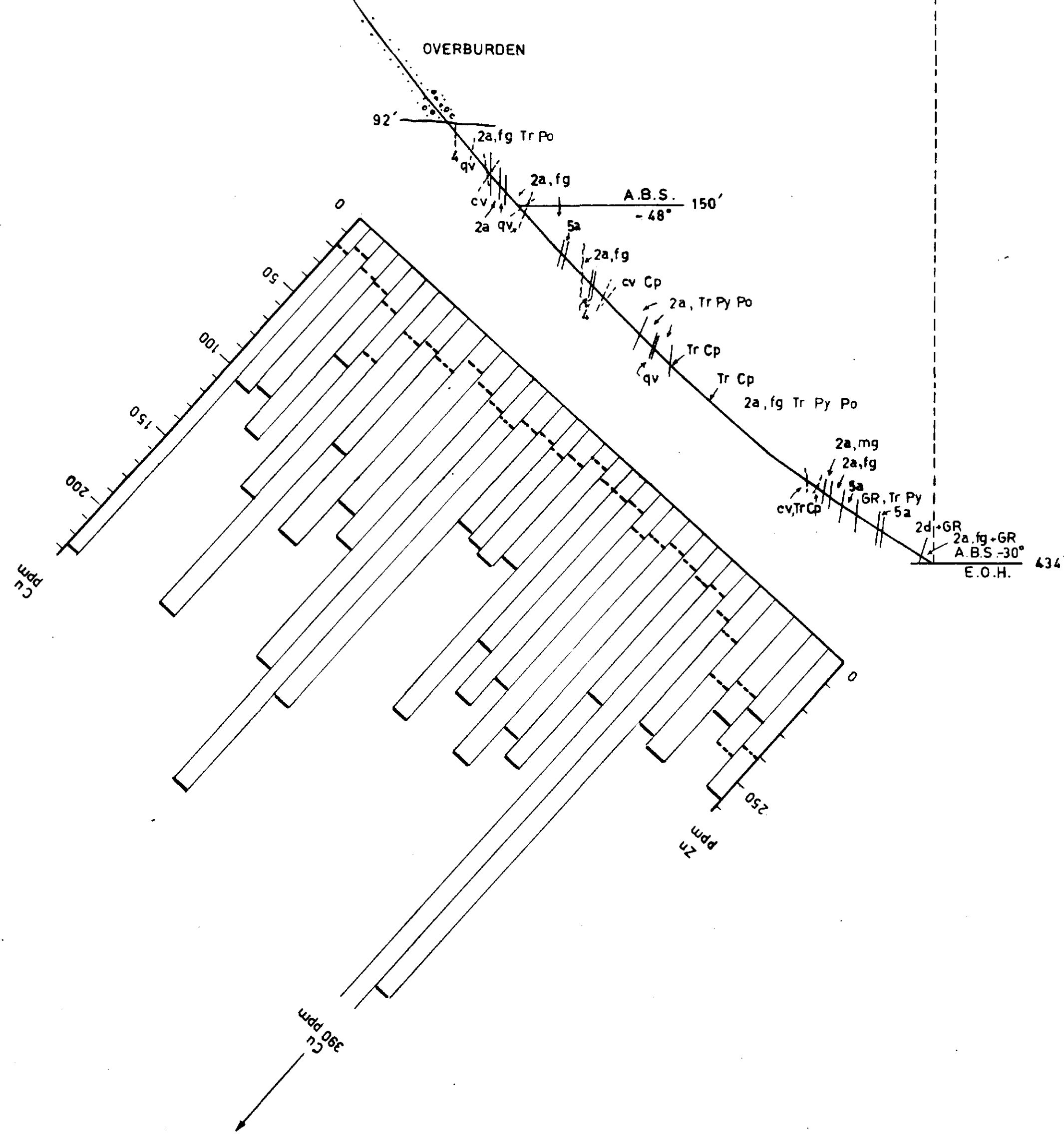
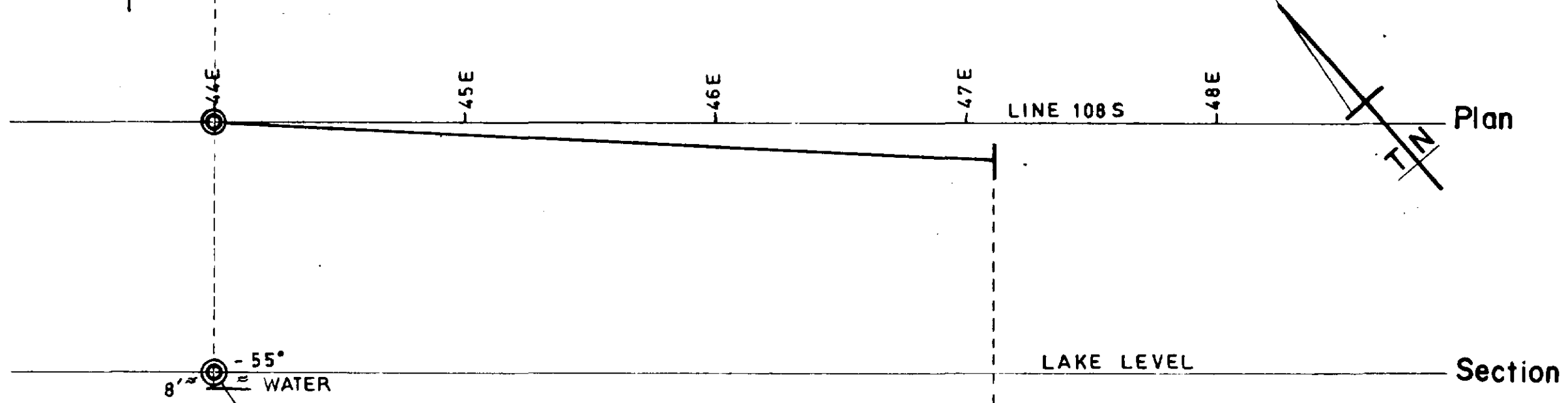
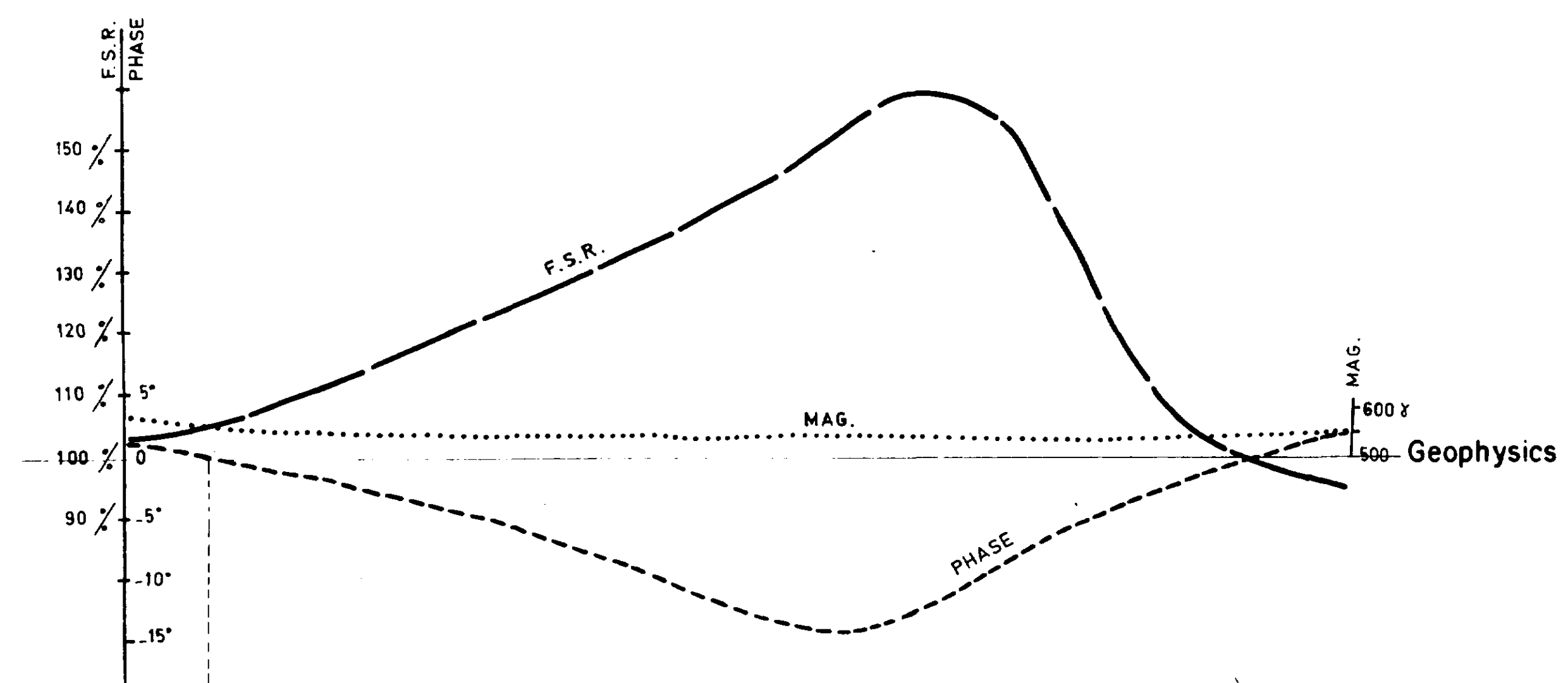


FOR LEGEND SEE APPENDIX I




CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT ABITIBI
35-D-13
RESULTS-DDH PA-75-2
CLAIM No. L4 000 000
SCALE 50 0 50 100 feet



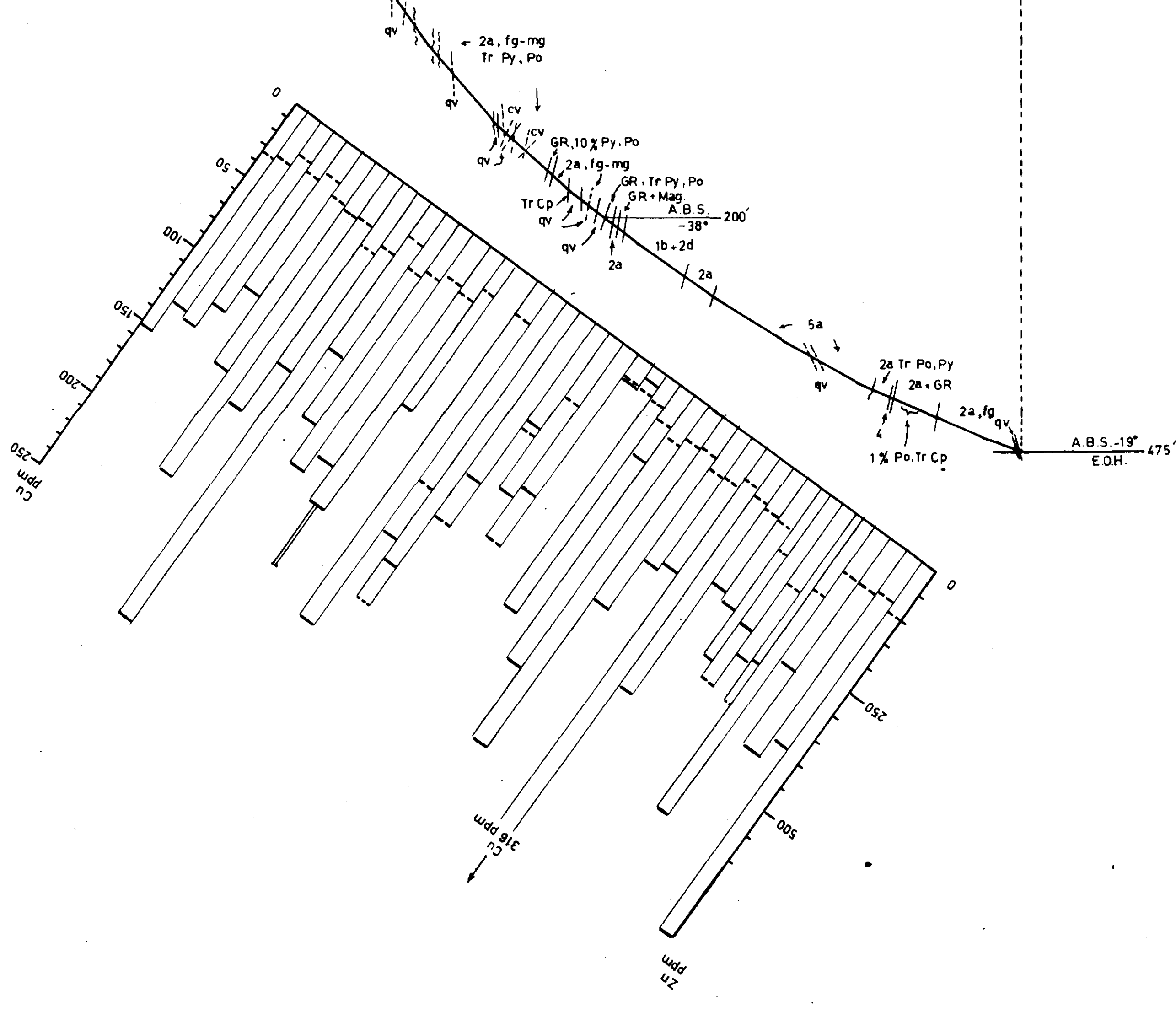
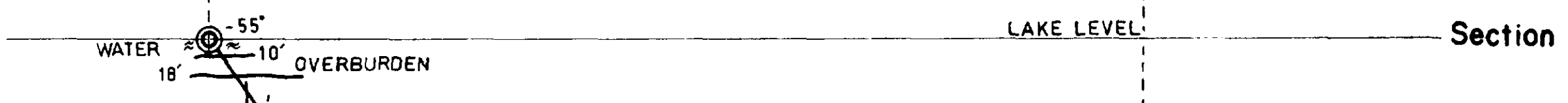
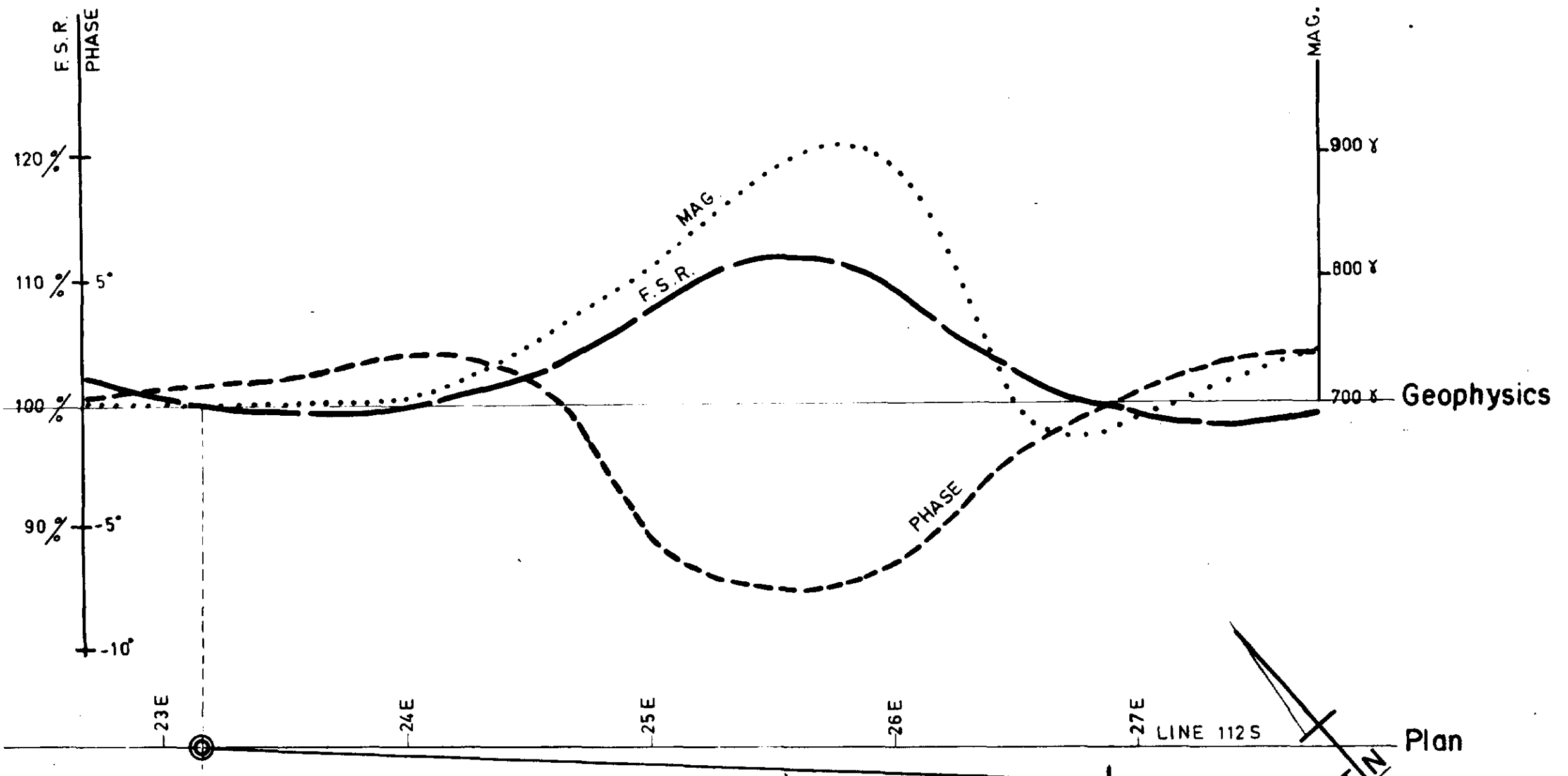



 N. SARACOGLU
 REGISTERED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

FOR LEGEND SEE APPENDIX I

CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
PROJECT ABITIBI
 35-D-13
RESULTS-DDH PA-75-3
 CLAIM No L 371 834
 SCALE 50 0 50 100 feet


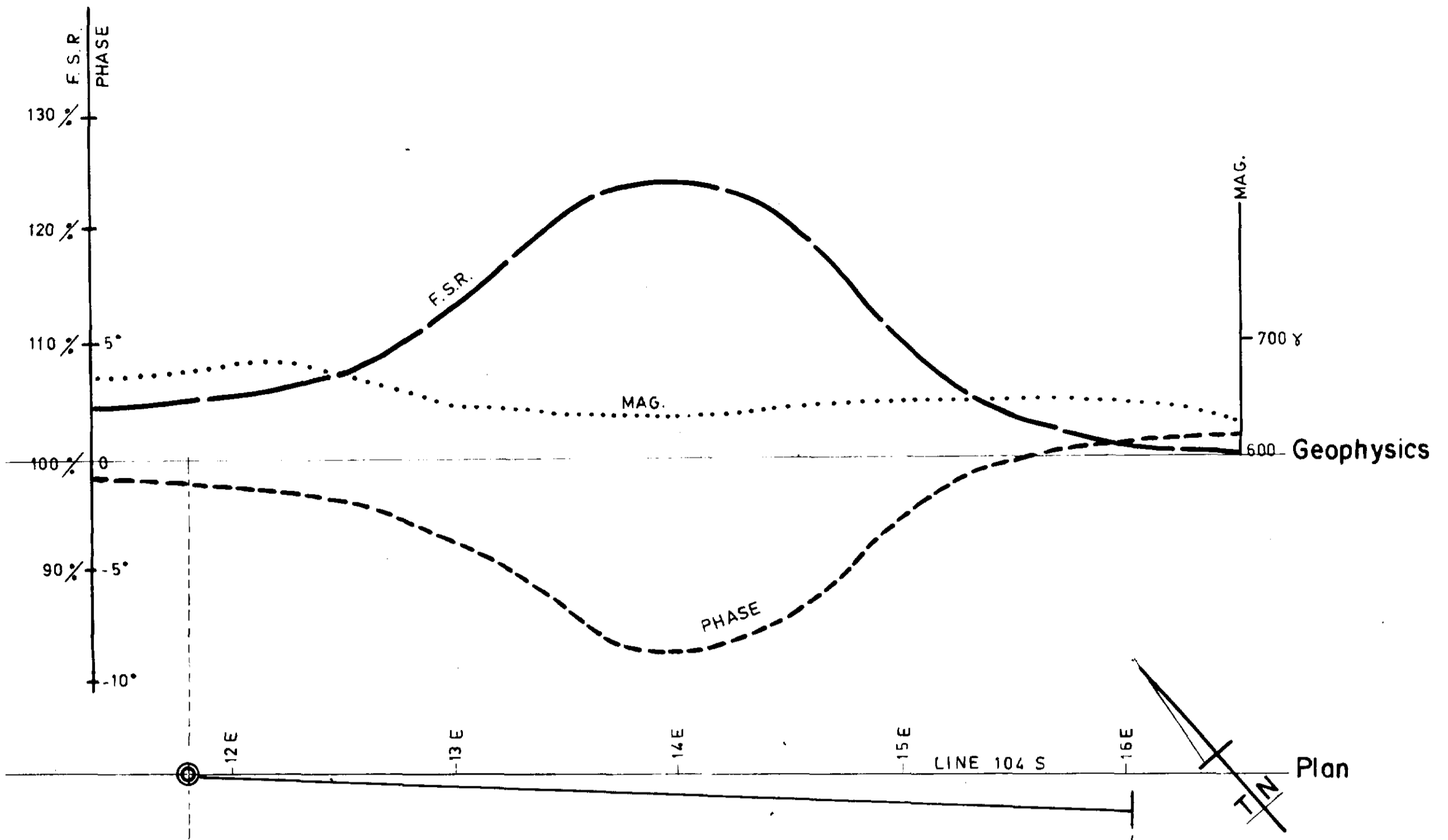




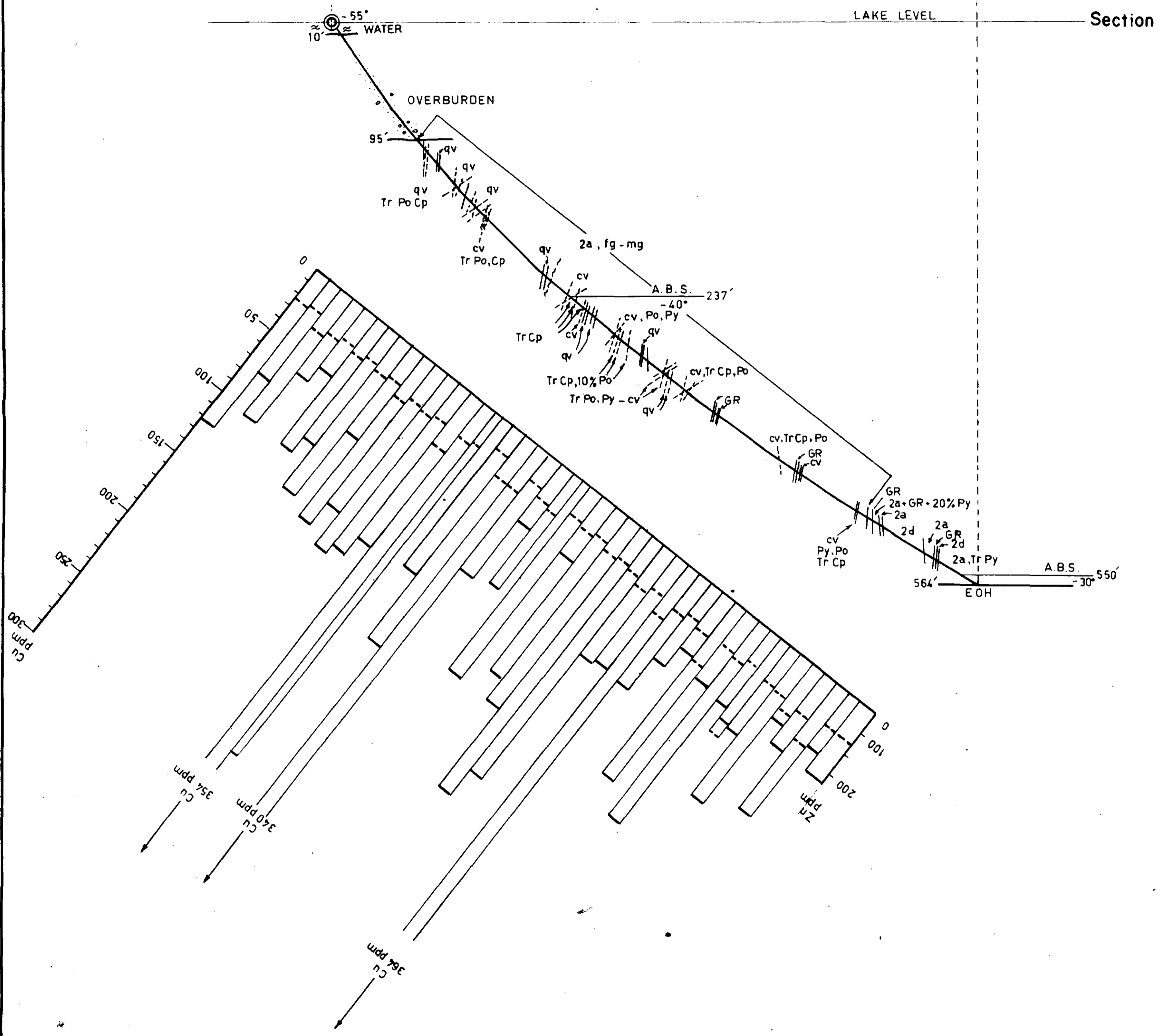
FOR LEGEND SEE APPENDIX I

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT ABITIBI
35-D-13
RESULTS-DDH PA-75-4
CLAIM No L 400007
SCALE 50 0 50 100 feet





Section



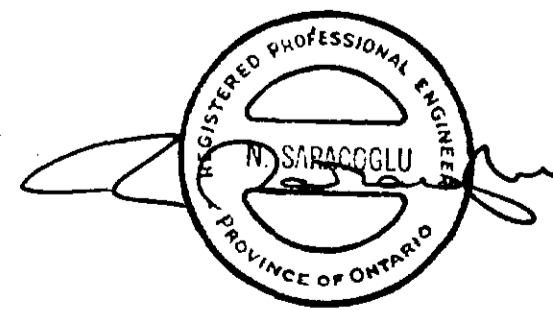
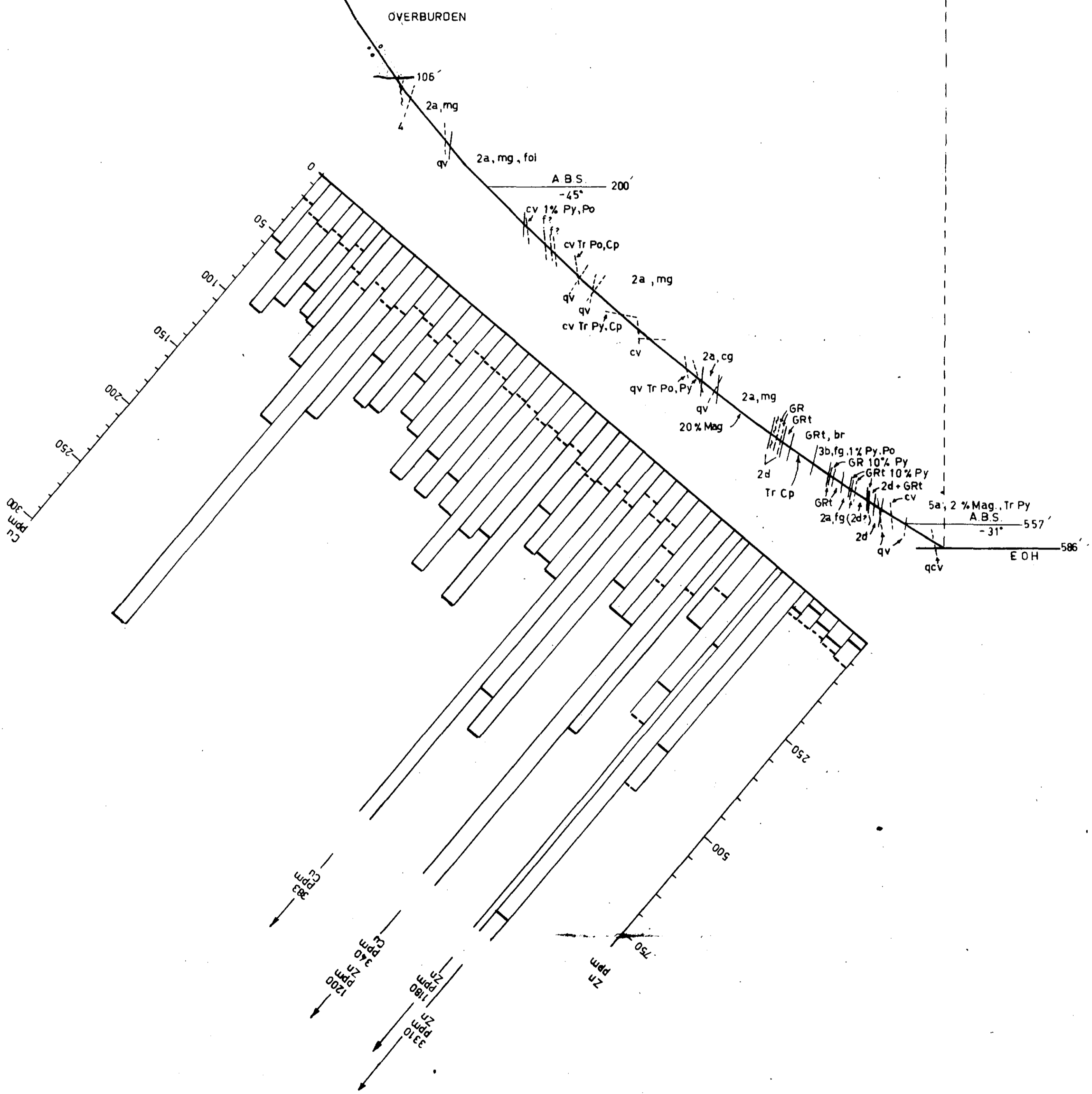
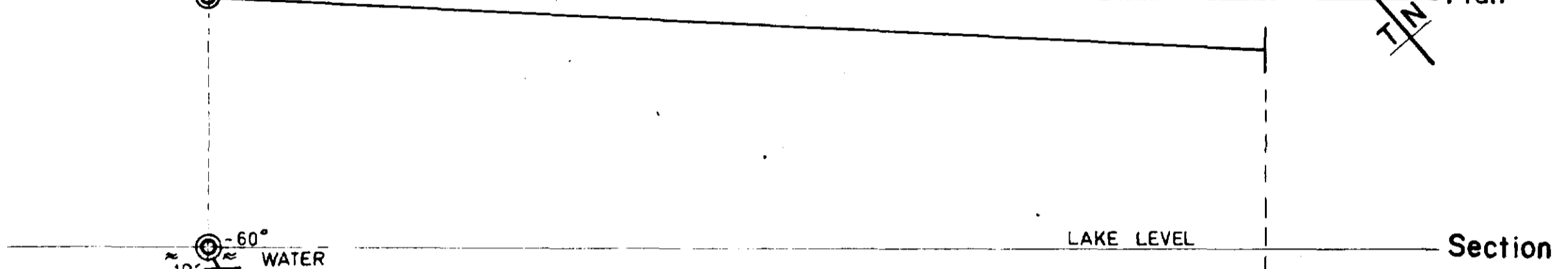
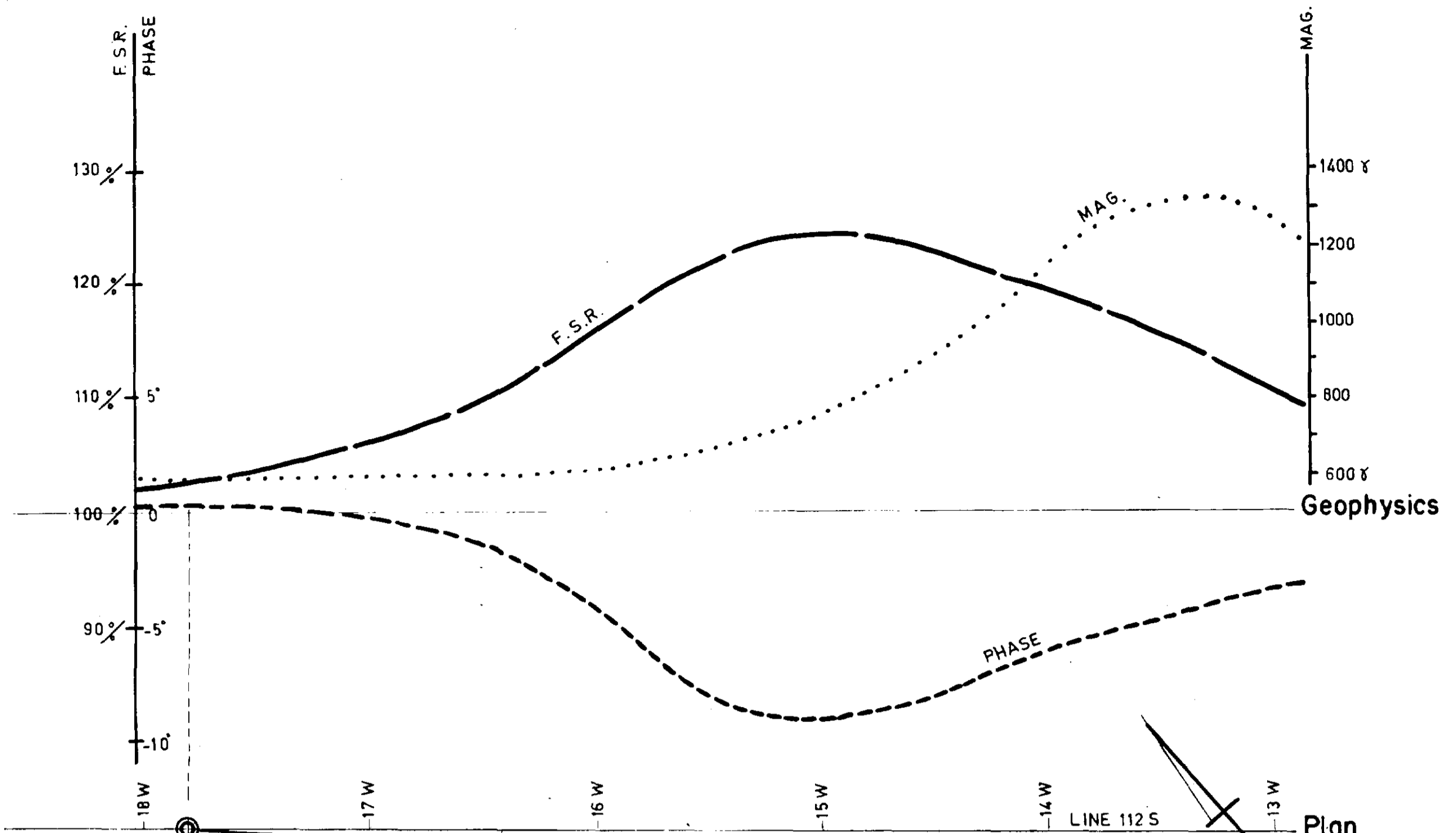
FOR LEGEND SEE APPENDIX I



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT ABITIBI
35-D-13
RESULTS-DDH PA-75-5
CLAIM No. L400024
SCALE 50 0 50 100 feet



#250 LARGER LAKE

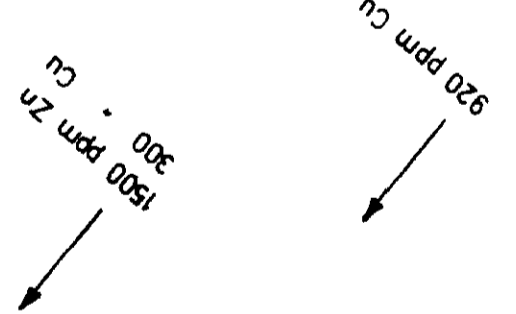
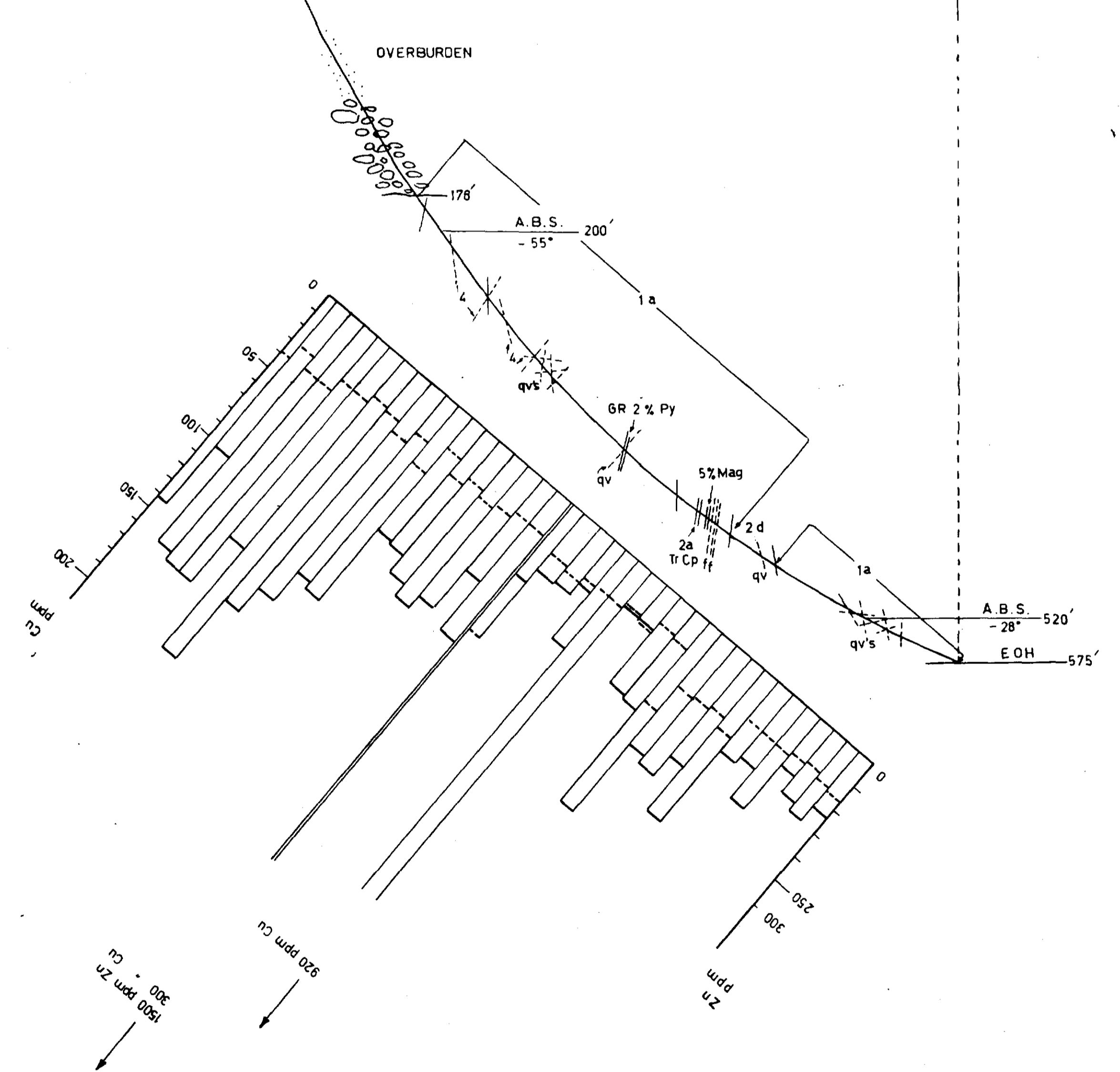
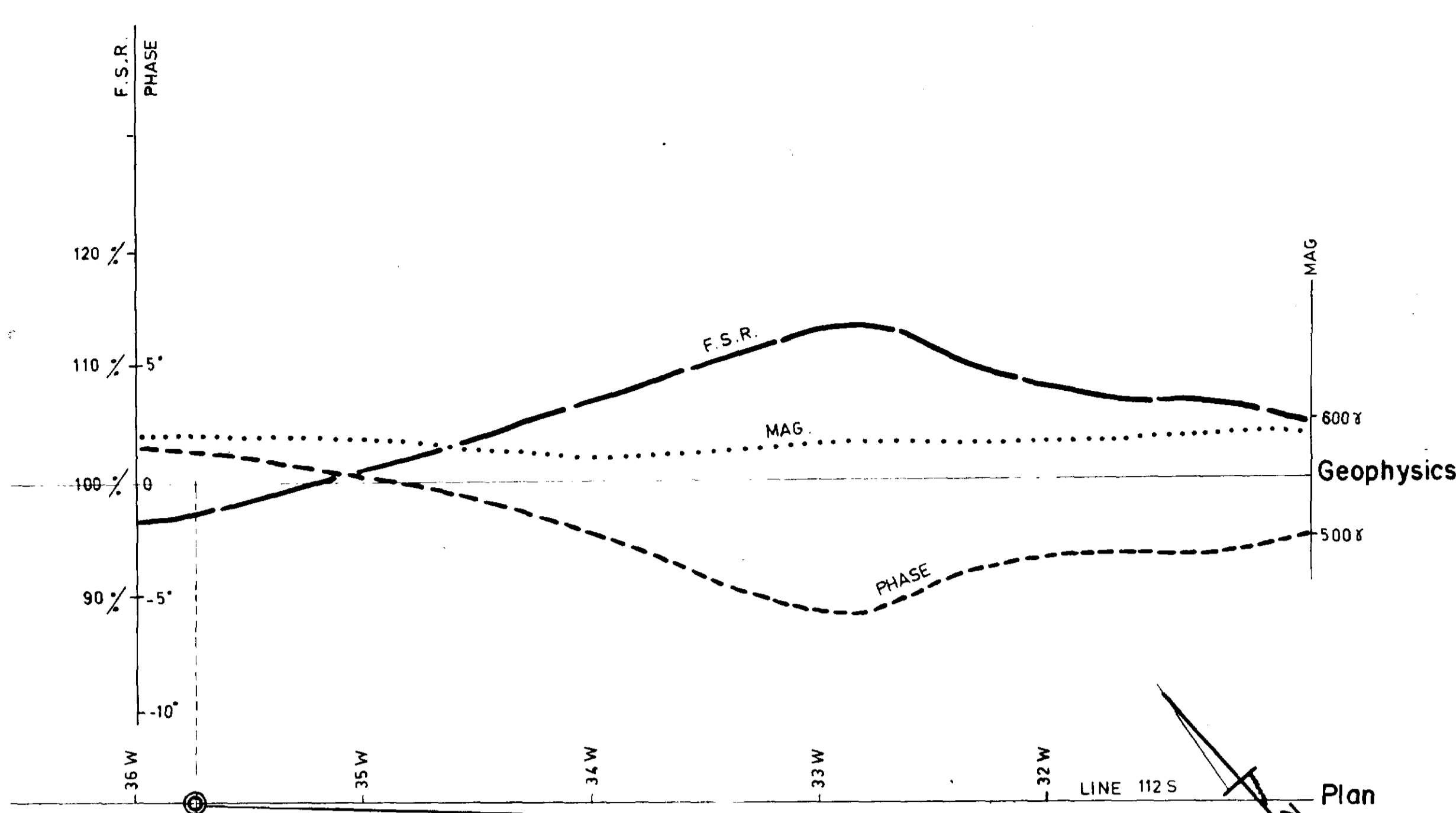


FOR LEGEND SEE APPENDIX I

CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
PROJECT ABITIBI
 35-D-13
RESULTS—DDH PA-75-6
 CLAIM No. L 400059
 SCALE 50 0 50 100 feet



#250 LARGER LAKE

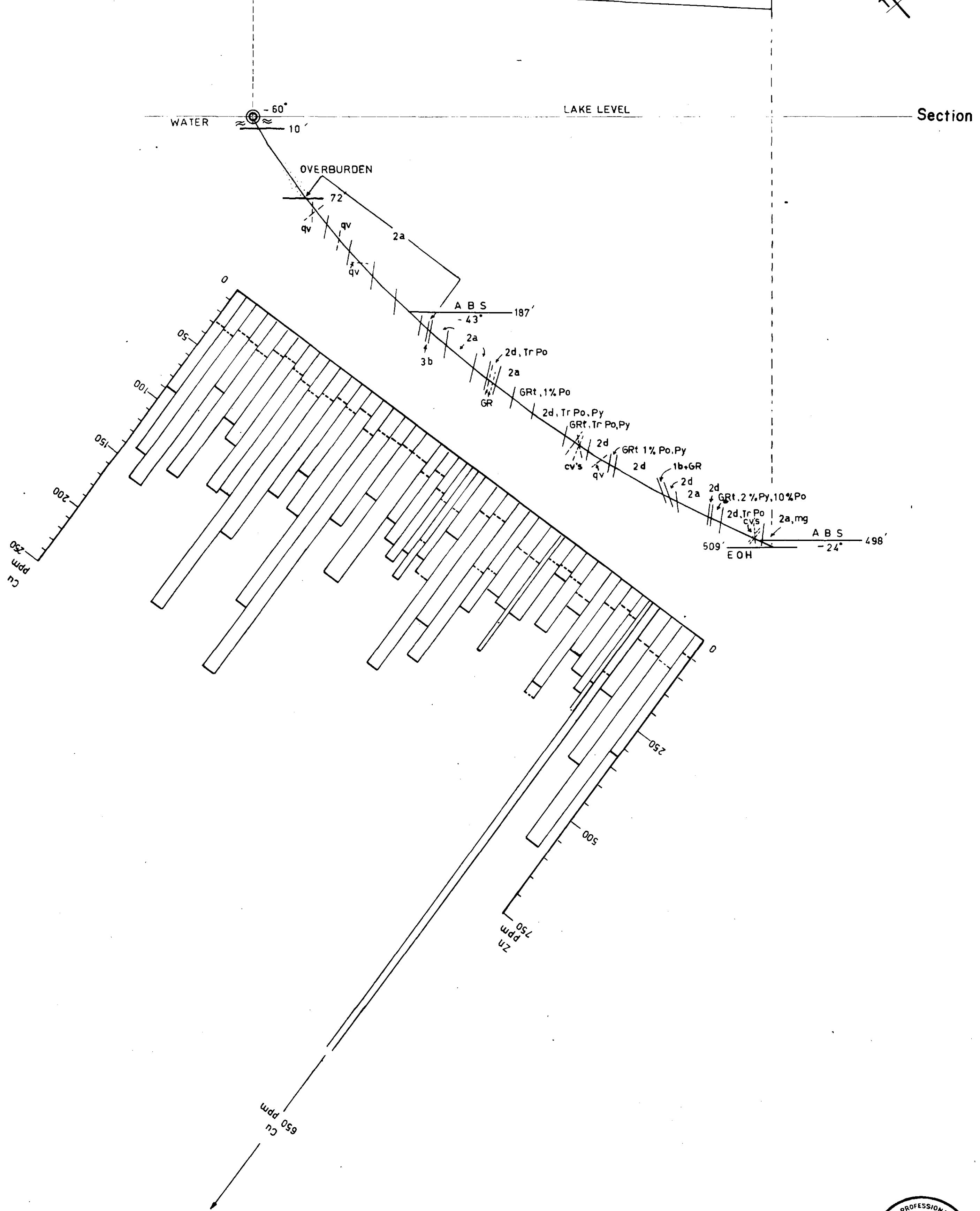
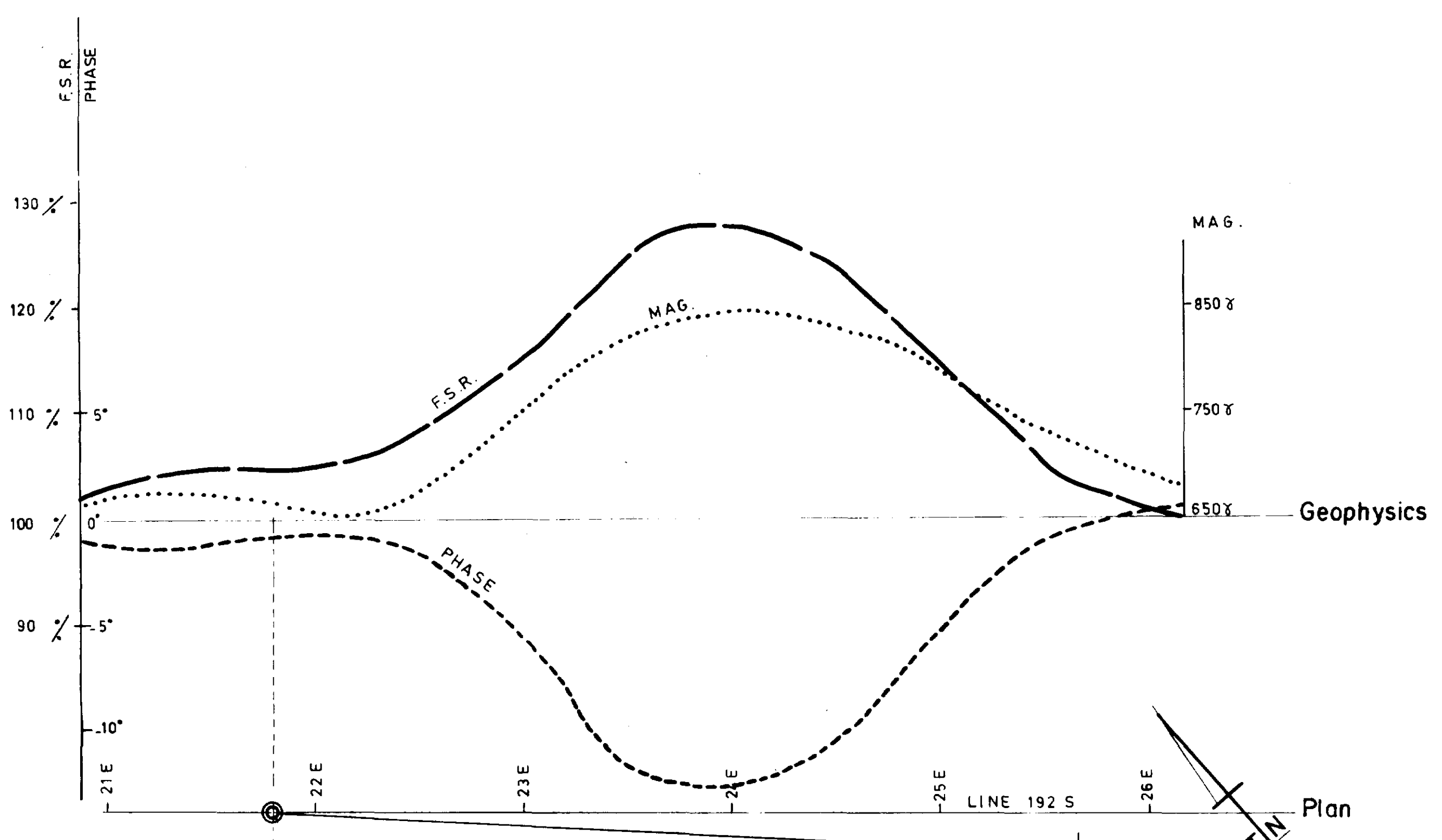


FOR LEGEND SEE APPENDIX I



CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT ABITIBI
35-D-13
RESULTS—DDH PA-75-7
CLAIM No L400067
SCALE 50 0 50 100 feet





FOR LEGEND SEE APPENDIX I

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION

PROJECT ABITIBI

35-D-13

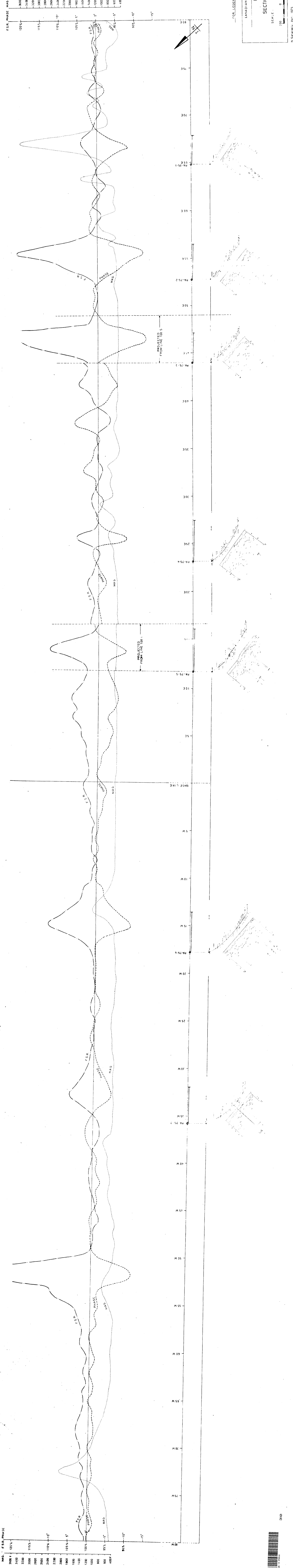
RESULTS—DDH PA-75-8

CLAIM No. L 399 935

SCALE 50 0 50 100 feet



#250 LARGER LAKE



FOR LEGEND SEE APPENDIX I

CANADIAN OCCIDENTAL PETROLEUM LTD
 MINERALS DIVISION
PROJECT ABITIBI
 35-0-13
SECTION ALONG LINE 112 S
 SCALE: 1" = 200 FT.
 0 200 400 600 800 FT.

N Saratoga, Apr. 1975

250 LARDEK LAKE

FIGURE 12



310