



52F07NE0028 31 BOYER LAKE

010

DIAMOND DRILLING

AREA: BOYER LAKE

REPORT NO: 31

WORK PERFORMED FOR: Esso Resources Canada Ltd.

RECORDED HOLDER: Same as above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
K 850300	86-PL-02	211'	Nov/86	(1)
	86-PL-04	30.5m	Nov/86	(2)

NOTES: (1) #W8801.093, filed in Sept/88
(2) #W8801.094, filed in Sept/88

PELHAM PROSPECT DRILL LOG SUMMARY : 86 - PL - 02

HOLE LOCATION : 117 W 43.5 N

STARTING DATE : NOVEMBER 23, 1986

AZIMUTH : 010

COMPLETION DATE : NOVEMBER 25, 1986

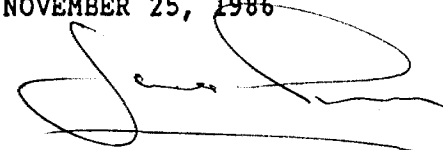
DIP : -50

FINAL DEPTH : 64.31 metres

GEOLOGICAL SUMMARY :

NOTES:

0.00 - 3.05 : Casing/overburden
3.05 - 5.82 : Weakly Carbonatized Gabbro
5.82 - 6.10 : Weakly Biotitized Gabbro
6.10 - 7.71 : Gabbro
7.71 - 8.56 : Intensely Biotitized Gabbro
8.56 - 9.33 : Weakly Carbonatized Gabbro
9.33 - 10.76 : Weakly Biotitized Gabbro
10.76 - 13.35 : Carbonatized Gabbro
13.35 - 13.75 : Weakly Biotitized Gabbro
13.75 - 17.47 : Carbonatized Gabbro
17.47 - 17.74 : Weakly Biotitized Gabbro
17.74 - 25.63 : Weakly Carbonatized Gabbro
25.63 - 42.46 : Magnetite-Bearing Gabbro
42.46 - 44.26 : Magnetite-Bearing Gabbro
44.26 - 44.81 : Carbonatized Gabbro
44.81 - 47.76 : Carbonatized Gabbro
47.76 - 48.34 : Intensely Silicified/Biotitized Gabbro
48.34 - 50.96 : Carbonatized Gabbro
50.96 - 51.36 : Quartz - Epidote Vein
51.36 - 52.27 : Weakly Carbonatized Gabbro
52.27 - 54.10 : Quartz - Epidote - Carbonate Vein
54.10 - 54.20 : Moderately Biotitized Gabbro
54.20 - 54.41 : Quartz - Carbonate Vein
54.41 - 54.71 : Moderately Carbonatized Gabbro
54.71 - 54.96 : Quartz Vein
54.96 - 56.11 : Gabbro
56.11 - 56.94 : Moderately Carbonatized Gabbro
56.94 - 57.10 : Silicified Gabbro
57.10 - 57.61 : Intensely Silicified Gabbro
57.61 - 58.58 : Weakly Carbonatized Gabbro
58.58 - 59.19 : Silicified Sheared Gabbro
58.19 - 60.56 : Carbonatized Gabbro
60.56 - 64.31 : Carbonatized Gabbro



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PELHAM PROSPECT ONT 081 DRILL LOG : 86 - PL -02

From	To	Lithology	Assay		Au	As (p.p.m.)
			From	To		
0.0	- 3.05	<u>CASING/OVERBURDEN</u>				
3.05	- 5.82	<u>GABBRO</u>				
5.82	- 6.10	<u>WEAKLY CARBONATIZED GABBRO</u>	3.05 - 4.00	32009 Tr.	780	<3
		- Massive, medium-grained, very minor calcite veining.				
6.10	- 7.71	<u>GABBRO</u>				
7.71	- 8.56	<u>INTENSELY BIOTITIZED GABBRO</u>	6.10 - 7.71	32010 Tr.	50	<3
		- Weak to moderate foliation 75 to 85 degrees to c.a.				
		- Sporadic epidote veining (<2%) as thin (<5.00 mm) stringers parallel to foliation.				
		- 5 to 15% disseminated biotite grains (1 by 5.00 mm) parallel to foliation				
		- 3% disseminated po in epidote stringer at 7.15 metres				
8.56	- 9.33	<u>WEAKLY CARBONATIZED GABBRO</u>				
9.33	- 10.76	<u>BIOTITIZED GABBRO</u>				
		- 2 to 10% disseminated biotite in crude bands 0.5 to 2.5 cm in width, minor calcite veining, trace po-py				
10.76	- 13.35	<u>CARBONATIZED GABBRO</u>				
		- Some minor weakly biotitized zones, weak foliation 75 to 90 degrees to c.a.				
13.35	- 13.75	<u>WEAKLY BIOTITIZED GABBRO</u>	13.35 - 13.75	32011 Tr.	23	<3
		- Moderate foliation 90 degrees to c.a., trace po-py, 3% epidote stringers				
13.75	- 17.47	<u>CARBONATIZED GABBRO</u>	15.00 - 15.50	32012 Tr.	35	<3
		- Generally massive, weakly carbonatized with up to 3% disseminated leu-				

PELK PROSPECT ONT 081 DRILL LOG: 86 - PL - 02

coxene, some thin <2cm foliated zones 90 degrees to c.a., minor calcite - epidote veining.

- Intensely foliated from 15.00 to 15.50 with 7% calcite-epidote veining parallel to foliation.

17.47 - 17.74 WEAKLY BIOTITIZED GABBRO 17.47 - 17.74 32013 Tr. 16 <3

- Well foliated zone foliation 90 degrees to c.a., minor calcite-epidote veining, trace po-py

17.74 - 25.63 WEAKLY CARBONATIZED GABBRO

- 0.5 to 2.0 % disseminated leucoxene, massive with <1% epidote stringers

25.63 - 41.91 MAGNETITE - BEARING GABBRO

- Massive, unaltered with 1 to 5% disseminated magnetite, some thin well-foliated zones generally < 2cm wide trending 90 degrees to c.a.

- Leucoxene associated with foliated zones.

- Coarse and fine-grained phases alternating on a 0.5 metre scale. Coarser-grained phases with up to 0.30 cm grain size

41.91 - 44.26 MAGNETITE - BEARING GABBRO

41.91 42.80 32014 Tr. 6 <3
42.80 43.11 32036 Tr. 19 18

- Medium-grained, except-ionally oxide-rich with up to 10 % disseminated magnetite. Magnetite generally unaltered to weakly altered to leucoxene, 1 to 2% disseminated py

- Weak foliation 80 degrees to c.a.
- Minor calcite veining with intense epidote haloes at 41.91 metres.

44.26 - 44.81 CARBONATIZED GABBRO

44.26 44.80 32015 Tr. 6 200
44.80 45.41 32016 Tr. 5 240

- Crosscut by 5% irregular calcite stringers with an average width of 1.5 cm containing abundant po as 1.5mm wide cores to the veins, tr py associated with po

- Up to 1 to 2% arsenopyrite associated with epidote stringers sometimes in grain contact with magnetite.

- 1 to 2% diss po-py-asp from 45.00 to 45.41

- Foliation 90 degrees to c.a.

PELHAM PROSPECT ONT 081 DRILL LOG: 86 - PL - 02

44.81 - 47.76	<u>CARBONATIZED GABBRO</u>					
	- Medium-grained weakly carbonatized, crosscut by 2% epidote - calcite stringers.	45.41	46.18	32017 Tr.	5	110
		46.18	46.94	32018 Tr.	8	90
		46.94	47.76	32019 Tr.	18	220
	- Still abundant magnetite (1 to 3%) only partially altered to leucoxene, up to 1% needles of arsenopyrite (white) in random orientation disseminated throughout.					
	- Only minor (<2%) disseminated po-py, foliation 90 degrees to c.a.					
47.76 - 48.34	<u>INTENSELY SILICIFIED GABBRO</u>	47.76	48.34	32020 Tr.	55	360
	- Intensely silicified, biotitized and epidote veined zone, composed of 35% quartz-epidote-calcite veins cutting approximately 50 degrees to c.a.					
	- Minor sulphides in veins and sil/bio altered matrix, 1% po-py-asy and cpy.					
	- Intensity of biotite alteration associated with proximity to epidote veins.					
48.34 - 50.96	<u>WEAKLY CARBONATIZED GABBRO</u>					
	- 0.5 to 2.0% disseminated po-py generally along thin <1.00mm foliation parallel fractures trending 80 to 90 degrees to c.a.	48.34	49.07	32021 Tr.	11	84
		49.07	49.83	32022 Tr.	4	54
		49.83	50.96	32023 Tr.	15	180
	- Crosscut by <1% calcite stringers					
	- Minor disseminated leucoxene					
50.96 - 51.36	<u>QUARTZ - EPIDOTE VEIN</u>	50.96	51.36	32024 Tr.	14	190
	- 50% vein, 50% intensely silicified/brecciated wallrock; <1% diss po-py, foliation 80 degrees to c.a.					
51.36 - 52.27	<u>WEAKLY CARBONATIZED GABBRO</u>	51.36	52.27	32025 Tr.	77	250
	- Moderately developed foliation 80 to 90 degrees to c.a., 1 to 3% disseminated leucoxene and sulphides as fine blebs of py, po, and aspy, minor <1% fine epidote stringers with fine <3mm biotite alteration haloes.					
52.27 - 52.46	<u>QUARTZ - CALCITE - EPIDOTE VEIN</u>	52.27	52.46	32026 Tr.	12	90
	- Contacts 75 degrees to c.a.					
52.46 - 53.83	<u>WEAKLY CARBONATIZED GABBRO</u>					

PELH PROSPECT ONT 081 DRILL LOG: 86 - PL - 02

		52.46 - 53.10 32027 Tr.	8	130
	- 1 to 2% disseminated, 1 to 2% disseminated magnetite, minor disseminated sulphides (py-po-asy)	53.10 - 53.83 32028 Tr.	13	48
	- Increasing amount of leucoxene towards bottom contact up to 4 %.			
	- Epidote calcite stringers irregular in orientation ranging from 0 to 70 degrees to c.a.			
53.83 - 54.07	<u>QUARTZ CARBONATE VEIN</u>	53.83 - 54.07 32029 Tr.	75	110
	- 30 % vein cutting intensely silicified wallrock, 1% fine disseminated po, veins trending 55 degrees to c.a.			
54.07 - 54.19	<u>MODERATELY BIOTITIZED GABBRO</u>			
	- Abundant (3%) disseminated magnetite, intensely sheared, foliation 70 degrees to c.a.			
54.19 - 54.41	<u>QUARTZ - CARBONATE - EPIDOTE VEIN</u>	54.19 - 54.41 32030 Tr.	10	130
	- 30% grey white carbonate vein trending 45 degrees to c.a., cutting silicified gabbro, tr disseminated po			
54.41 - 54.71	<u>CARBONATIZED GABBRO</u>			
54.71 - 54.96	<u>QUARTZ VEIN</u>			
	- Intensely deformed zone, vein appears to be intensely folded and does not cross the entire core.			
	- Well developed silicification adjacent to vein, minor calcite and tr pyrite			
54.96 - 56.11	<u>WEAKLY CARBONATIZED GABBRO</u>			
	- Minor epidote stringers			
56.11 - 56.94	<u>CARBONATIZED GABBRO</u>	54.11 - 56.94 32031 Tr.	10	130
	- More abundant calcite - epidote veining (up to 5%) with 1 to 5% disseminated po-py and 0.5% disseminated aspy. Sulphides in thin bands parallel to 75 to 80 degree to c.a. foliation			
56.94 - 57.06	<u>SILICIFIED GABBRO</u>	56.94 - 57.06 32032 Tr.	27	250

PELHAM PROSPECT ONT 081 DRILL LOG: 86 - PL - 02

- Intensely silicified
composed of dark grey amorphous quartz, tr
po-py

57.06 - 57.61 SILICIFIED GABBRO

- Dark brown, broken ground,
1 to 5% disseminated po-py, fine-grained,
massive

57.61 - 58.58 WEAKLY CARBONATIZED GABBRO

57.61 - 58.58 32033 Tr. 13

27

- Well developed foliation
75 to 85 degrees to c.a., 1 to 3 % disseminated
magnetite, intensely sheared parallel to fol-
iation, minor disseminated sulphides.

58.58 - 59.19 SILICIFIED SHEARED GABBRO

58.58 - 59.19 32034 Tr. 64

72

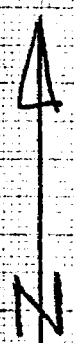
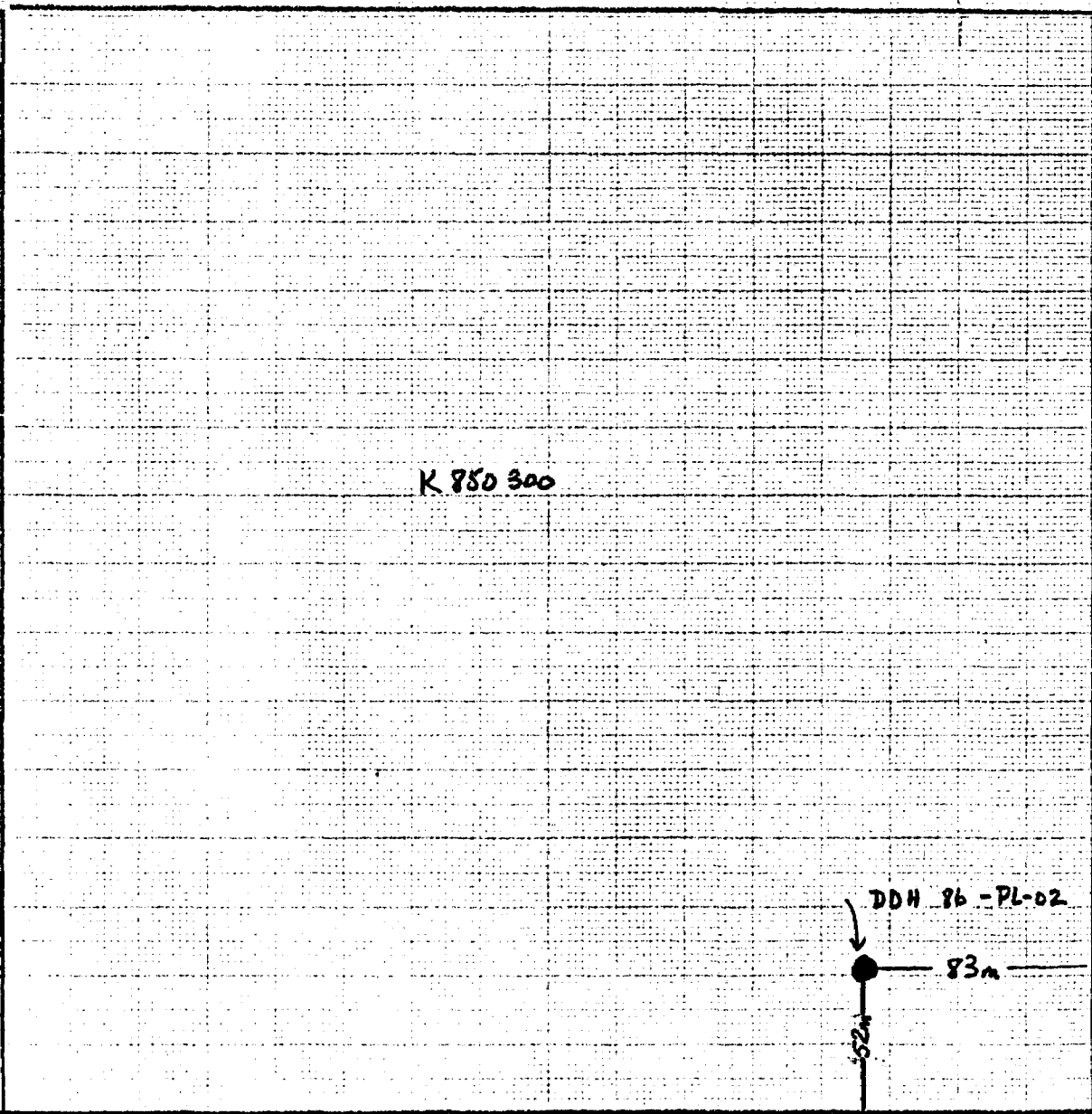
- Intensely sheared and
silicified gabbro foliated 70 to 75 degrees
to c.a., 5 % disseminated and stringer po.
Stringers parallel to lcm qz vein.
- 1 to 5 % sheared magnetite

59.19 - 60.56 WEAKLY CARBONATIZED GABBRO

59.19 - 60.56 32035 Tr. 56

27

60.56 - 64.31 WEAKLY CARBONATIZED GABBRO



1: 2500

PELHAM PROSPECT DRILL LOG SUMMARY : 86 - PL - 04

HOLE LOCATION : 119 W 44 N

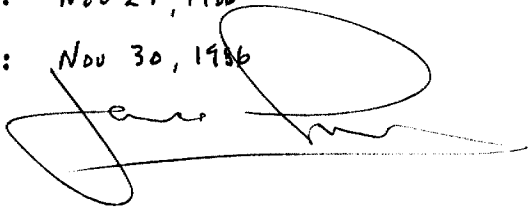
STARTING DATE : Nov 29, 1986

AZIMUTH : 345

COMPLETION DATE : Nov 30, 1986

DIP : -70

FINAL DEPTH : 30.5 METRES



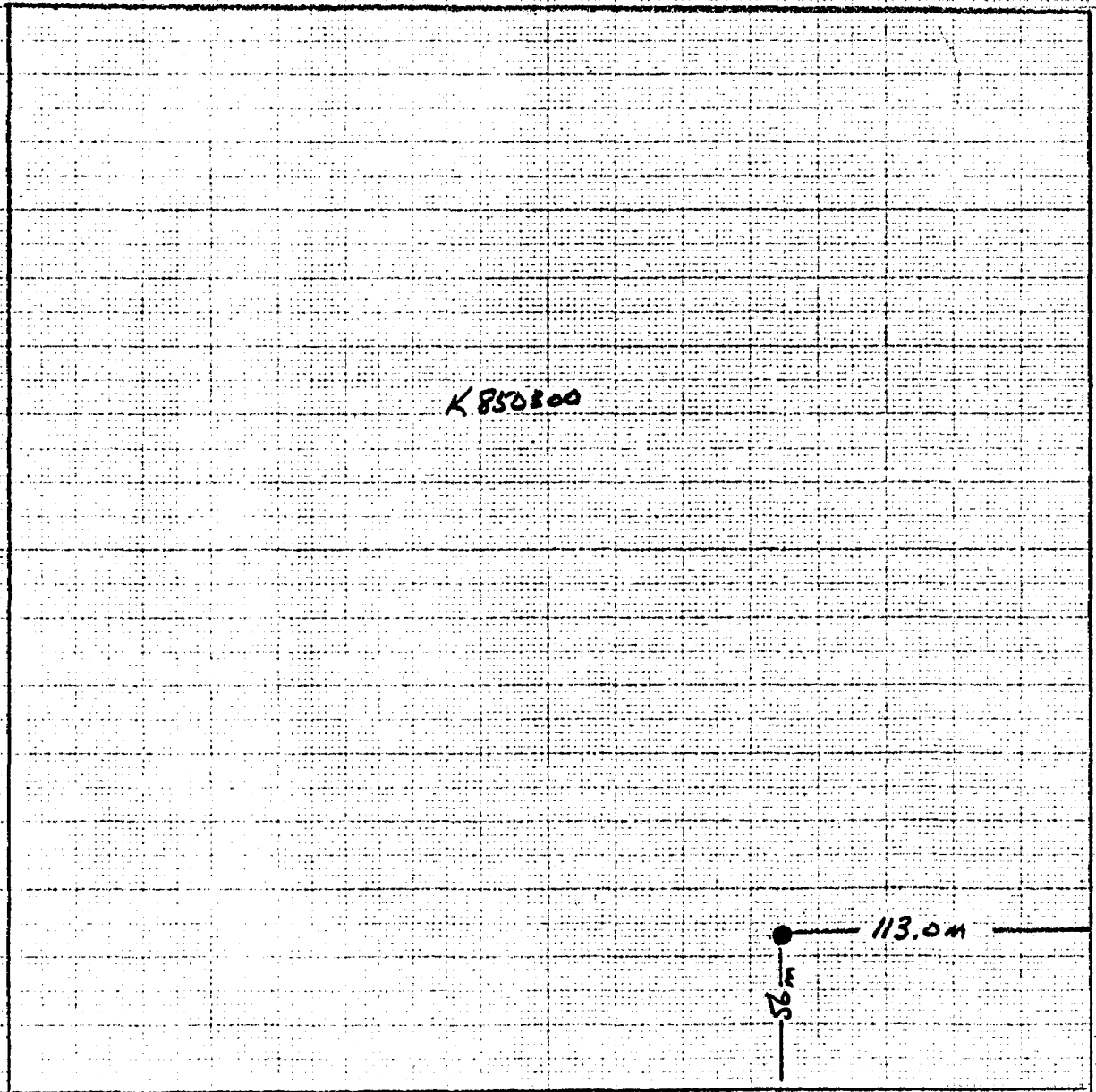
GEOLOGICAL SUMMARY :

- 0.00 - 1.83 - Casing/Overburden
- 1.83 - 4.60 - Moderately Biotitized Gabbro
- 4.60 - 8.32 - Weakly Carbonatized Gabbro
- 8.32 - 11.80 - Intensely Biotitized Gabbro
- 11.80 - 30.48 - Gabbro

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PELHAM PROSPECT ONT 081 DRILL LOG 86 - PL - 04

From	To	Lithology	Assay		Au	As (p.p.m.)
			From	To		
0.00	1.83	<u>CASING/OVERBURDEN</u>				
1.83	4.60	<u>MODERATELY BIOTITIZED GABBRO</u>				
		- Composed of 5 to 25 % biotite rich bands ranging in width from 0.5 to 3.5 cm alternating with intensely carbonatized gabbro. Bands and cleavage 60 degrees to c.a.	1.83	2.59	32131	Tr. 28 <3
			2.59	3.35	32132	Tr. 28 <3
			3.35	4.11	32133	Tr. 18 <3
			4.11	4.60	32134	Tr. 22 <3
		-Minor disseminated py-po				
4.60	8.32	<u>MODERATELY CARBONATIZED GABBRO</u>				
		- Weakly biotitized, medium-grained gabbro, zones of biotite alteration ranging in width from 0.5 to 2.5 cm throughout, foliation 55 degrees to c.a.	4.60	5.18	32135	Tr.
			7.62	8.32	32137	Tr. 19 <3
		- Minor disseminated po-py				
8.32	11.80	<u>INTENSLY BIOTITIZED GABBRO</u>				
		- 5 to 15 % disseminated biotite flakes formed in a moderately carbonatized gabbro, 1 to 2% weak epidote veining. Veining not as well developed as in the previous or the latter holes	8.32	9.14	32138	Tr. 25 <3
			9.14	9.91	32139	Tr. 30 <3
			9.91	10.67	32140	Tr. 16 <3
			10.67	11.43	32141	Tr. 100 <3
			11.43	11.80	32142	Tr.
		- Foliation from 60 to 65 degrees to c.a., intensely sheared from 11.40 to 11.60 metres.				
		- Intensely silicified from 9.00 to 9.14 and from 11.43 to 11.55 metres				
11.80	30.48	<u>MASSIVE GABBRO</u>				



K 850300

56m
113.0m



1: 2500



Assess files

Report of Work DOCUMENT No. W8801-093 86-PL



52F07NE0028 31 BOYER LAKE

900

Name and Postal Address of Recorded Holder
Esso Resources Canada Limited

Prospector's Licence No.
T872

120 Adelaide Street West, P.O. Box 4029, Station A, Toronto, Ontario M5W 1K3

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 211	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim		
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only)	K	850300	49								
	<input type="checkbox"/> Manual Work		850299	80							
	<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.		850292	80							
	<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.		850291	2							
	<input type="checkbox"/> Power Stripping										
<input checked="" type="checkbox"/> Diamond or other Core drilling											
<input type="checkbox"/> Land Survey											

All the work was performed on Mining Claim(s): **K 850300**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Diamond drilling done by: Northwest Geophysics
P.O. Box 3263
Thunder Bay, Ontario
P7B 5E8

from November 23, 1986 to November 25, 1986.

Drill Hole 86-PL-02, - 211 feet

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Date of Report: **24th March 1988**
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
JAMES PICIE, ESSO MINORAL CANADA, Box 4029, STATION A, TORONTO M5W1K3 ONT

Date Certified: **24th March 1988**
 Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.	850291	
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil



Report of Work DOCUMENT No. W8801-094

86-PL-04

BOYER LAKE

The Mining Act G. 2572

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below). For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Name and Postal Address of Recorded Holder: **Esso Resources Canada Limited**
 120 Adelaide Street West, P.O. Box 4029, Station A, Toronto, Ontario M5W 1K3

Prospector's Licence No. **T872**

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.	
79	K	850300	1					
		850291	78					

For Performance of the following work. (Check one only)

- Manual Work
- Shaft Sinking Drifting or other Lateral Work.
- Compressed Air, other Power driven or mechanical equip.
- Power Stripping
- Diamond or other Core drilling
- Land Survey

All the work was performed on Mining Claim(s): **K 850300**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Diamond drilling done by: Northwest Geophysics
 P.O. Box 3263
 Thunder Bay, Ontario
 P7B 5E8

from November 29, 1986 to November 30, 1986.

Dull hole 86-PL-04 - 79' 30.5 m = 100'

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 APR 21 1988
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Date of Report: *24th March 1988*
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

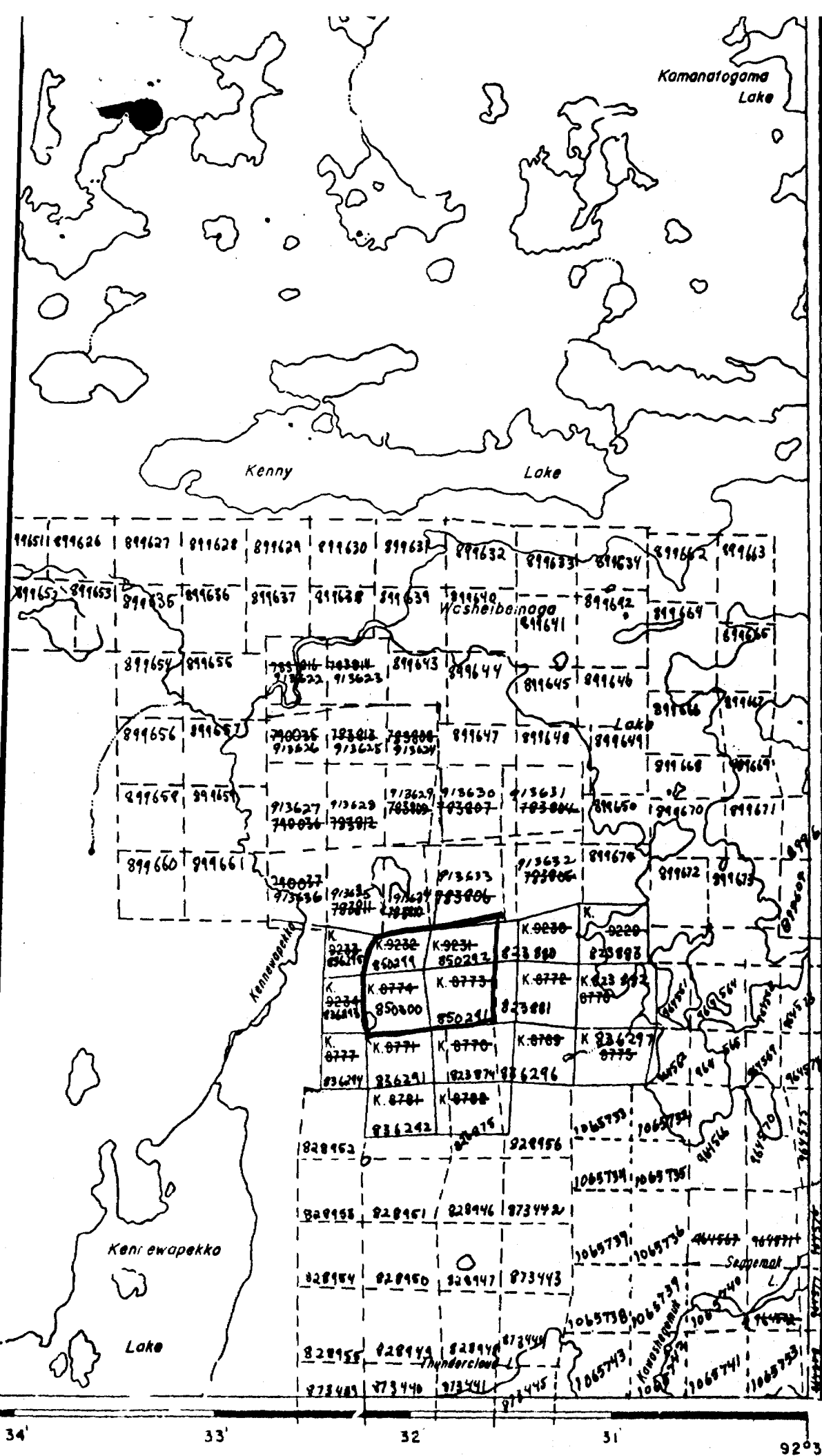
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying:
James Piew Esso Minerals Canada, Box 4029 Station A Toronto M5W 1K3.

Date Certified: *24th March 1988*
 Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	850291	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil



Kwashegamuk Lake - G-23

26'
25'
24'
23'
49°22'30"
34'
33'
32'
31'
92°30'

R
AR
D
R.
R2
SCA
FEET
MET
AR
B
M.M
DR
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