



42C08SW0035 43 JACOBSON

010

DIAMOND DRILLING

TOWNSHIP: JACOBSON TWP.

REPORT NO:43

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>
647065 & 827517	87-37	82.30m	Sept/87	(1)
647065	87-38	152.41m	Sept/87	(1)
827517	87-39	76.21m	Sept/87	(1)

NOTES: (1) #W8805-018, filed in june/88

Eso Minerals Canada - Cline Project (Ont-82)

Hole: 87-37
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Core size: BQ
Drilled by: JKS 300
Started: September 2, 1987
Finished: September 3, 1987
Azimuth: 190
Dip: -45
Depth: 7.62
Dip: -43.0
30.48
-41.0
82.30
-35.0

Grid: Showing:
Northings: 00+10N
Eastings: 03+20E
Elevation:



Logged by: Randy S. Hall
Date logged: September 8, 1987
System:

Length: 82.30m
66m Claim 647065
16m Claim 827517

Interval (m) -----Description-----

Sample No. Interval (m) Length (m) Au (g/t) Sulfide (Z) Carb. Ser. Silic. Fol'n

.00 7.86 OVERBURDEN

7.86 9.14 MASSIVE MAFIC METAVOLCANIC
Intensely fractured and jointed
fine-grained massive mafic.

9.14 18.56 MASSIVE MAFIC METAVOLCANIC
Fine-grained massive mafic volcanic rock.
Moderately foliated and weakly carbonate
with local possible anhydrites.
Dark green and chloritic with minor sugary
calcite lenses and veinlets.
9.14 9.15 Foliation at 47 degrees to long
core axis.
12.19 12.19 Foliation at 50 degrees to
long core axis.
15.24 15.24 Foliation at 57 degrees to
long core axis.
18.29 18.29 Foliation at 57 degrees to
long core axis.
17.50 17.53 Fault gouge at 35 degrees to
long core axis.
17.98 17.99 Fault gouge at 35 degrees to
long core axis.

NS 9.14 18.56 9.42 .00 - WK - - MOD

18.56 23.96 MASSIVE MAFIC METAVOLCANIC
Fine-grained massive mafic; moderately
carbonate and weakly sericitized and
foliated.
10% disseminated 3-5mm calcite
porphyroblasts.
Trace pyrite within calcite veinlets.
Medium green colour and chloritic.

NS 18.56 23.47 4.91 .00 - MOD - - -
31750 23.47 23.96 .49 tr 1% MOD WK - -

23.96 24.41 QUARTZ VEIN

Esso Minerals Canada - Cline Project (Ont-82)

Hole: 87-37
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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
	core axis.							
28.01 28.28	Quartz vein. Quartz tourmaline carbonate vein within intensely carbonate mafic and 1% pyrite. Well foliated at 71 degrees to long core axis.							
28.29 30.60	MASSIVE MAFIC METAVOLCANIC Massive fine-grained mafic; moderately carbonate and non-foliated. Minor sugary white calcite. Medium to dark green chloritic matrix.	NS	28.29 30.60	2.32	.00	-	MOD	- - -
30.60 31.09	PILLOWED MAFIC VOLCANIC Moderately carbonate and moderately to intensely sericitized pillow basalts. Intensely foliated at 63 degrees to long core axis. Pale green and waxy textured due to abundant sericite. Minor calcite tourmaline veinlets with 1% chalcopyrite and trace arsenopyrite.	31757	30.60 31.09	.49	tr	1%	MOD INT	- INT
31.09 39.14	PILLOWED MAFIC VOLCANIC Moderately carbonate and weakly sericitized, but locally intensely sericitized, pillow basalts. Numerous relict amygdules and well foliated. Medium to pale green colour with minor sugary calcite lenses and veinlets. Rare am tourmaline veinlets on fractures.	NS	31.09 39.14	8.05	.00	-	MOD WK	- INT
31.09 31.09	Foliation at 52 degrees to long core axis.							
33.53 33.53	Foliation at 53 degrees to long core axis.							
36.58 36.58	Foliation at 64 degrees to long core axis.							
39.14 39.23	GRANITE Granite to granodiorite dyke to quartz porphyritic granodiorite. Well foliated and moderately sericitized and silicified. Minor quartz tourmaline veinlets.	31758	39.14 39.23	.09	tr	-	MOD MOD	INT

Esso Minerals Canada - Cline Project (Ont-82)

Hole: 87-37

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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb.	Ser.	Silic.	Fol'n
39.23 43.95	PILLOWED MAFIC VOLCANIC Moderately carbonate and intensely foliated pillow basalts. Locally amygdaloidal in medium green fine-grained matrix. Numerous calcite veinlets parallel foliation at 54 degrees to long core axis.	NS	39.23 39.44	.21	.00	-	-	MOD	-	-
		NS	39.44 43.95	4.51	.00	TR	MOD	-	-	INT
43.95 45.14	MASSIVE MAFIC METAVOLCANIC Moderately carbonate and sericitized massive mafic volcanic with 20% brecciated sugary carbonate lenses and minor tourmaline. Trace pyrite and chalcopyrite. 3 Ca quartz carbonate tourmaline vein at 24 degrees to long core axis. Well foliated at 53 degrees to long core axis.	31759	43.95 45.14	1.19	tr	TR	MOD	MOD	-	INT
45.14 60.90	MASSIVE AND PILLOWED MAFIC VOLCANICS Massive and locally amygdaloidal and possible pillow basalt. Weakly carbonate and moderately foliated. Minor calcite veinlets and numerous sugary calcite lenses. 45.72 45.72 Foliation at 52 degrees to long core axis. 48.77 48.77 Foliation at 57 degrees to long core axis. 51.82 51.82 Foliation at 65 degrees to long core axis. 54.86 54.87 Foliation at 80 degrees to long core axis. 57.91 57.92 Foliation at 62 degrees to long core axis.	NS	45.32 60.90	15.58	.00	-	WK	-	-	MOD
60.90 67.91	INTERMEDIATE DYKE Moderately carbonate and weakly sericitized and foliated INTERMEDIATE DYKE. Upper contact at 77 degrees to long core axis and breccia. Rare sugary calcite lenses associated with <1% pyrite. Lower contact hematite-stained and oriented at 84 degrees to long core axis.	NS	60.90 67.91	7.01	.00	-	MOD	WK	-	WK

Esso Minerals Canada - Cline Project (Ont-32)

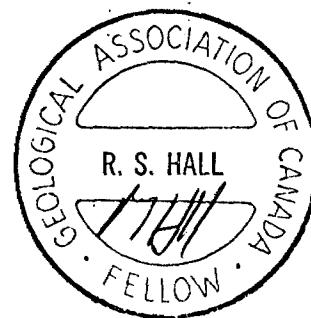
Hole: 87-37
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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
67.91 82.30	GABBRO Fine-grained massive mafic intrusive. Very weakly to non-foliated and weakly to moderately carbonate. 1% Disseminated magnetite and trace pyrite. Minor sugary calcite veinlets (1-2mm) at 21 degrees to long core axis.	NS	67.91 82.30	14.39	.00	-	WK	- - WK
82.30 82.30	END OF HOLE							

Esso Minerals Canada - Cline Project (Ont-32)

Hole: 87-38
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Core size: BR	Aziuth: 190	Grid:
Drilled by: JKS 300	Dip: -45	Showings:
Started: September 4, 1987		Northing: 00+90N
Finished: September 7, 1987		Easting: 03+20E
	Depth Dip	Elevations:
Logged by: Randy S. Hall	10.67 -44.0	Length: 152.4m
Date logged: September 7, 1987	42.67 -44.0	Claim 647065
System:	57.91 -40.0	
	106.68 -35.0	
	152.40 -20.0	



Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
.00 9.34	OVERBURDEN							
9.34 22.59	GABBRO Medium-grained massive mafic intrusive with rare feldspar phenocrysts. Numerous fine pale green coloured fractures infilled with calcite and rare epidote. Rare sugary carbonate lenses within very weakly foliated matrix. Locally highly jointed and fractured. 15.55 16.76 Numerous lca calcite veins at 58-70 degrees to long core axis	NS	9.34 22.59	12.85	.00	-	-	WK
22.59 24.99	GRANODIORITE Quartz porphyritic granodiorite with 5% quartz phenocrysts and 2% feldspar phenocrysts in a fine-grained siliceous matrix. Abundant chlorite along fractures and joints but typically weakly foliated. Trace pyrrhotite in fractures.	NS	22.59 24.99	2.41	.00	TR	-	WK
24.99 25.60	FAULT ZONE Fault zone-lost water. Foliated at 40 degrees to long core axis. Localized along contact of granodiorite and gabbro and associated with iron staining and 1% pyrrhotite and pyrite within sugary calcite lenses. Local intense epidotization and intense fracturing of gabbro- 10ca lost core.	31749	24.99 25.60	.61	1.37	1%	-	INT
25.60 43.86	GABBRO							

25.60 43.86 GABBRO

Esso Minerals Canada - Cline Project (Ont-92)

Hole: 87-38

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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
	<p>Medium-grained to fine-grained massive mafic intrusive with a pervasive weak carbonatization. Epidote pseudomorphed after the S2 plagioclase phenocrysts. Possible multiple intrusions or flows with chilled contacts between successive flows or sills which is oriented at 55 degrees to long core axis. Numerous anastomosing hairline fractures infilled with epidote and calcite. Locally moderately carbonate and finer grained zones. Minor sugary calcite lenses and veins and open space infilling. Non-foliated to weakly foliated.</p> <p>33.53 33.53 Foliation at 47 degrees to long core axis.</p>	NS	25.60	43.86	18.26	.00	-	WK - - WK
43.86 52.95	<p>GABBRO</p> <p>Coarse-grained gabbro in sharp intrusive contact with fine-grained gabbro. Pervasive weakly carbonate and epidotized with minor sugary calcite veinlets in fractures and local epidote replacement of fragments in veinlets. Minor feldspar pseudomorph by epidote and possible leucoxene in upper portion of unit. Non-foliated. Non-magnetite bearing and no quartz phenocrysts at top but increase of both quartz phenocrysts and magnetite at depth.</p>	NS	43.86	52.95	8.99	.00	-	WK - - -
52.85 55.14	<p>GRANODIORITE</p> <p>Quartz porphyritic granodiorite with 6mm quartz phenocrysts in fine-grained white matrix. Weakly foliated and sericitized. Rare chlorite on fractures at random orientation. Decrease in quartz and increase in feldspar content with depth. Increase in jointing accompanied by chlorite infill with depth.</p>	NS	52.85	55.14	2.29	.00	-	WK - WK
55.14 58.19	<p>ULTRAMAFIC TO MAFIC DYKE</p> <p>Fine-grained mafic to ultramafic dyke.</p>	NS	55.14	58.19	3.05	.00	-	- - - -

Esso Minerals Canada - Cline Project (Ont-82)

Note: 87-38

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Interval (e)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
	Black coloured and non-foliated but highly jointed with calcite infilling joints at approximately 10 cm intervals. Dyke contains minor magnetite. 55.47 55.60 5% pyrrhotite, 1% pyrite and trace chalcopyrite.							
58.19 59.34	GRANODIORITE Mylonitized granodiorite: pink stained and highly jointed. Foliated at 37 degrees to long core axis.	NS	58.19 59.34	1.16	.00	-	-	- INT
59.34 77.05	ULTRAMAFIC TO MAFIC DYKE Dark green to black fine grained mafic to ultramafic dyke, and very similar to dyke above. Becomes more medium grained at depth and contains 1% disseminated magnetite. Very rare tourmaline on foliation planes. Highly jointed with numerous calcite veinlets and fractures. Lower contact at 62 degrees to long core axis.	NS	59.34 77.05	17.71	.00	-	-	-
77.05 80.04	MASSIVE AND PILLOWED MAFIC VOLCANICS Possible pillows and pillow breccia in fine-grained amygdaloidal mafic intrusive or extrusive. Moderately carbonate with numerous sugary calcite veinlets. Dark green and chloritic rock. 3% Disseminated pyrrhotite in 1-2mm clots and lenses-locally 10% po. Minor jointing. Very weakly foliated at 53 degrees to long core axis.	31737 31738 31739	77.05 78.03 78.03 79.25 79.25 80.04	.98 1.22 .79	tr tr tr	3% 3% 3%	MOD MOD MOD	- - - WK WK WK
80.04 86.20	MASSIVE MAFIC METAVOLCANIC Medium to fine-grained and pervasive weakly to moderately carbonate gabbro or basalt. Minor cm veins of massive fine-grained pyrite in calcite veins. Very weakly foliated.	NS	80.04 86.20	6.16	.00	TR	WK	- WK

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Hole: 87-38
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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
86.20 93.18	MASSIVE MAFIC METAVOLCANIC Massive and locally amygdaloidal fine-grained mafic intrusive or extrusive weakly foliated and weakly to moderately carbonate. Minor sugary calcite lenses and veinlets interlaminated with massive mafics.	NS	86.20 93.18	6.99	.00	-	MOD	- - WK
86.26 86.26	Foliation at 51 degrees to long core axis.							
89.92 89.92	Foliation at 54 degrees to long core axis.							
92.95 92.97	Foliation at 66 degrees to long core axis.							
93.18 97.99	GRANODIORITE Quartz porphyritic granodiorite with minor relict feldspar phenocrysts. Weakly foliated, silicified and sericitized with rare tourmaline along joints. Minor chlorite on fractures and joints.	NS	93.18 97.99	4.82	.00	-	-	WK WK WK
93.18 93.18	Upper contact at 53 degrees to long core axis.							
97.99 97.99	Lower contact at 66 degrees to long core axis.							
97.99 114.91	MASSIVE MAFIC METAVOLCANIC Fine-grained massive mafic volcanic. Pervasive weakly carbonate and weakly to moderately foliated. Pale to medium green colour and chloritic. Locally amygdaloidal with calcite infill vesicles.	NS	97.99 114.91	16.92	.00	-	WK	- - MOD
98.15 98.15	Foliation at 58 degrees to long core axis.							
100.59 100.59	Foliation at 51 degrees to long core axis.							
103.63 103.64	Foliation at 51 degrees to long core axis.							
106.68 106.68	Foliation at 68 degrees to long core axis.							
109.73 109.73	Foliation at 68 degrees to long core axis.							
112.78 112.78	Foliation at 71 degrees to long core axis.							
114.91 115.79	MASSIVE MAFIC METAVOLCANIC							

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Hole: 87-28

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Interval (a)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
	Intensely foliated and braccia and moderately carbonate fine-grained massive mafic volcanic? Minor calcite tourmaline lenses and veins with trace pyrite and chalcopyrite. Possibly mylonitic fabric in some tourmaline veinlets.	31740	114.91	115.79	.88	.00	TR	MOD - - INT
115.79 118.69	MASSIVE MAFIC METAVOLCANIC Moderately carbonate and weakly silicified fine-grained mafic volcanic. Weakly foliated with possible relict amygdules.	NS	115.79	118.69	2.90	.00	-	MOD - - WK WK
118.69 119.30	GRANODIORITE Quartz porphyritic and highly foliated granodiorite. Moderately sericitized and weakly sericitized with minor chlorite on fractures. 118.90 119.18 Glassy white quartz vein with accessory tourmaline and dark green chlorite.	31741	118.69	119.30	.61	tr	-	MOD - - WK INT
119.30 121.95	MASSIVE MAFIC METAVOLCANIC Amygdaloidal fine-grained basalt. Well foliated and weakly to moderately carbonate with minor calcite veinlets. 120.88 121.65 Quartz tourmaline vein (1ca wide) at 18 degrees to long core axis. Magnetite stained on fractures with 1% pyrite and up to 1% chalcopyrite.	NS	119.30	120.88	1.58	.00	-	MOD - - INT
		31742	120.88	121.04	.15	tr	2%	MOD - - INT
		NS	121.04	121.95	.91	.00	-	MOD - - INT
121.95 123.26	MASSIVE MAFIC METAVOLCANIC Moderately carbonate and weakly to moderately sericitized fine-grained massive mafic. Numerous sugary carbonate veins and lenses at 67 degrees to long core axis. Locally 3-5cm wide sericitic and possibly mylonitic zones. 1% Pyrite in carbonate lenses. 122.63 122.71 5ca quartz tourmaline vein in intensely sericitized and silicified zone with 5%	31743	121.95	123.26	1.31	tr	1%	MOD MOD - - INT

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Hole: 87-38
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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (Z)	Carb. Ser.	Silic. Fol'n
	pyrite in lam veinlets with trace chalcopyrite oriented at 75 degrees to long core axis.							
123.26 123.87	MASSIVE MAFIC METAVOLCANIC Moderately carbonate, moderately foliated and weakly sericitized massive fine-grained pale green mafic volcanics. Trace pyrite and foliation at 61 degrees to long core axis.	NS 123.26	123.87	.61	.00	-	MOD WK	- -
123.87 126.37	MASSIVE MAFIC METAVOLCANIC Moderately carbonate, sericitized and foliated fine-grained mafic volcanics. Rare 2-10mm calcite veinlets with 3Z 1 pyrite, 4Z pyrrhotite. Possible fragmented or boudinaged calcite veinlets. 1Z Disseminated magnetite. Local breccia textures which may be pillow breccia in narrow zones. Foliation at 60 degrees to long core axis.	31744 31745 31746	123.87 124.27 124.97 126.37	.40 .70 1.40	tr	2Z 1Z 1Z	MOD MOD MOD	MOD MOD MOD
126.37 127.92	MASSIVE MAFIC METAVOLCANIC Fine-grained moderately carbonate and weakly foliated massive mafic volcanics. 127.13 127.16 2cm quartz tourmaline vein with 3Z pyrite at 60 degrees to long core axis.	31747	126.37 127.92	1.55	tr	2Z	MOD -	- - WK
127.92 130.00	GRANODIORITE Quartz porphyritic granodiorite to quartz porphyry. Pale coloured fine-grained grey matrix with 10Z 6mm quartz phenocrysts. Minor chlorite along joints and fractures. Moderately sericitized and well-developed spaced cleavage at 6mm intervals. Cleavage is locally anastomosing but averages 71 degrees to long core axis. Local 3mm crosscutting chlorite selvages to carbonate tourmaline veinlets. Lower contact is razor sharp at 66 degrees to long core axis.	NS 127.92	130.00	2.07	.00	-	- MOD	- MOD

Esso Minerals Canada - Cline Project (Ont-82)

Hole: 87-38

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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
130.00 133.84	<p>MASSIVE AND PILLOWED MAFIC VOLCANICS Possible pillowed and amygdaloidal basalts. Moderately carbonate and weakly foliated with numerous zones with 70% disseminated calcite in veins with abundant accessory chlorite. Local brecciated calcite lenses and up to 1% disseminated pyrite. Foliation at 61 degrees to long core axis.</p>	NS 130.00	133.84	3.84	.00	-	MOD	- - WK
133.84 139.57	<p>INTERMEDIATE DYKE Weakly foliated and moderately sericitized and carbonate INTERMEDIATE DYKE. Trace tourmaline along the contact with basalts at 82 degrees to long core axis. Minor as tourmaline veinlets on fractures at 10 degrees to long core axis.</p>	NS 133.84	139.57	5.73	.00	-	MOD MOD	- WK
139.57 140.54	<p>MASSIVE MAFIC METAVOLCANIC Moderately carbonate, sericitized and foliated fine-grained massive mafic volcanics. Numerous calcite lenses. <<1% pyrite and trace pyrrhotite.</p>	31748 139.57	140.54	.98	tr	TR	MOD MOD	- MOD
140.54 152.40	<p>MASSIVE AND PILLOWED MAFIC VOLCANICS Possible pillowed and amygdaloidal fine-grained mafic volcanics. Weakly to moderately carbonate with local sugary calcite lenses. Medium green colour and chloritic matrix.</p>	NS 140.54	152.40	11.86	.00	-	MOD	- - MOD
152.40 152.40	END OF HOLE							

Esso Minerals Canada - Cline Project (Ont-92)

Hole: 87-39
Page: 1



Core size: 8Q Azimuth: 190
 Drilled by: JKS 300 Dip: -45
 Started: September 8, 1987
 Finished: September 9, 1987
 Logged by: Randy S. Hall Depth Dip
 Date logged: September 10, 1987 3.47 -46.0
 System: 60.95 -43.0
 76.20 -40.0

Grid: Showing:
 Northing: 00+60S
 Easting: 03+20E
 Elevation:
 Length: 76.21a
 Claim 827517

Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
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.00 3.47 OVERBURDEN

3.47 19.26 MASSIVE MAFIC METAVOLCANIC

Fine-grained and locally vesicular and weakly carbonate mafic volcanics. Numerous narrow calcite veinlets and local sugary calcite lenses. Medium to dark green and chloritic. Weakly to moderately foliated.
 5.39 5.97 Fault zone-rusty breccia.
 6.43 6.59 Fault zone-rusty breccia.
 4.57 4.57 Foliation at 61 degrees to long core axis.
 9.14 9.15 Foliation at 43 degrees to long core axis.
 12.19 12.19 Foliation at 49 degrees to long core axis.

NS 31994	3.47 18.84	15.36 .43	.00 tr	- IX	WK WK	- -	MOD MOD
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19.26 26.09 INTERMEDIATE DYKE

Moderately foliated fine-grained, weakly carbonate and sericitized INTERMEDIATE DYKE. Minor pyrite on chloritic joints at 18 degrees to long core axis. Grain size coarsens to medium-grained at depth. Pale grey-green colour with mottled texture. Upper contact is weakly breccia at 72 degrees to long core axis.

NS	19.26 26.09	6.83 .00	-	WK WK	- -	- -
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26.09 34.26 MASSIVE MAFIC METAVOLCANIC

Weakly to locally moderately carbonate fine-grained mafic volcanic. Medium to dark green and moderately foliated with abundant chlorite. Numerous narrow calcite veinlets parallel to foliation and on fractures.

NS 31995	26.09 27.43	1.34 .92	.00 tr	TR ZX	WK WK	- -	MOD MOD
NS	26.09 34.26	6.00 .00	-	TR WK	- -	MOD	

Esso Minerals Canada - Cline Project (Ont-82)

Hole: 87-39

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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
	Minor sugary calcite lenses and rare quartz veinlets. Up to 1% disseminated pyrite and in calcite veinlets.							
27.43	27.43 Foliation at 60 degrees to long core axis.							
30.48	30.48 Foliation at 56 degrees to long core axis.							
33.53	33.53 Foliation at 55 degrees to long core axis.							
29.57	30.02 Disseminated magnetite on possible pillow interstices.							
27.43	28.25 2% pyrite in ca quartz veinlets							
34.26	35.94 MASSIVE AND PILLOWED MAFIC VOLCANICS Possible pillowed and pillow breccia mafic volcanics. Fine-grained and intensely foliated with moderately to intense carbonatization. Pale green, bleached appearance with numerous 1-20µm calcite lenses. 3% Disseminated and lenses of magnetite and rare 2mm massive magnetite veinlets parallel to banding. Foliated at 52 degrees to long core axis.	NS	34.26	35.94	1.68	.00	-	MOD - - INT
35.94	49.13 MASSIVE MAFIC METAVOLCANIC Massive but locally vesicular fine-grained mafic volcanics with calcite infilling vesicles. Minor sugary calcite veinlets in moderately foliated matrix.	NS	35.94	49.13	13.20	.00	-	MOD - - MOD
48.22	48.25 1 ca massive fine-grained pyrite on pillow selvage.							
48.95	48.99 1 ca quartz carbonate vein with 1% pyrite.							
49.07	49.10 1 ca quartz carbonate vein with 1% pyrite.							
36.58	36.58 Foliation at 66 degrees to long core axis.							
39.52	39.53 Foliation at 63 degrees to long core axis.							
42.57	42.67 Foliation at 63 degrees to long core axis.							
45.72	45.72 Foliation at 57 degrees to long core axis.							
48.77	48.77 Foliation at 68 degrees to long core axis.							

Esso Minerals Canada - Cline Project (Ont-92)

Hole: 87-29

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Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
49.13 59.61	MASSIVE MAFIC INTRUSIVE OR FLOW Fine-grained to medium-grained massive basalt or gabbro. Weakly carbonate and foliated in featureless matrix with 1% magnetite.	NS	49.13 59.61	9.48	.00	-	WK	- - WK
59.61 59.59	FINE GRAINED FELSIC DYKE Fine-grained felsic dyke with 5% 1-2mm quartz phenocrysts in fine-grained sericitic matrix. 1% Disseminated pyrite oriented on foliation. Intensely sericitized and intensely foliated at 55 degrees to long core axis.	31986	59.61 59.59	.98	tr	1%	- INT	- INT
59.59 68.09	MASSIVE MAFIC INTRUSIVE OR FLOW Medium-grained and moderately carbonate massive mafic volcanic to gabbro with 1% disseminated pyrite. Numerous as calcite veinlets and local sugary calcite lenses. Moderately foliated and 1% disseminated magnetite. Possible intrusive or flow contacts with narrow (1-3cm) breccia zones. Moderately deformed and boudinaged carbonate veinlets and more intensely carbonate at depth.	NS 31987 NS	59.59 64.28 64.28 65.23 65.23 68.09	4.69 .94 2.87	.00 tr .00	TR 2% -	MOD INT MOD	- - MOD - - MOD - - MOD
60.95 60.96	Foliation at 67 degrees to long core axis.							
64.01 64.01	Foliation at 66 degrees to long core axis.							
67.06 67.06	Foliation at 44 degrees to long core axis.							
68.09 76.20	MASSIVE MAFIC INTRUSIVE OR FLOW Moderately carbonate and foliated medium-grained to fine-grained massive mafic intrusive or extrusive. Pale green and chloritic matrix with minor sugary calcite lenses and veinlets. 70.10 70.11 Foliation at 49 degrees to long core axis.	NS	68.09 76.20	8.11	.00	-	MOD	- - MOD

Esso Minerals Canada - Cline Project (Ont-92)

Hole: 87-39
Page: 4

Interval (m)	Description	Sample No.	Interval (m)	Length (m)	Au (g/t)	Sulfide (%)	Carb. Ser.	Silic. Fol'n
76.20	Foliation at 70 degrees to long core axis.	76.20						
76.20	END OF HOLE							



Mining A



42C085W0035 43 JACOBSON

900

Name and Postal Address of Recorded Holder
Esso Resources Canada Limited
 120 Adelaide St. W., Box 4029, Terminal "A", Toronto, Ontario M5W 1K3

Jacobson

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 1019.1	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.
	Prefix	Number			Prefix	Number			Prefix	Number		
for Performance of the following work. (Check one only)	SSM	827515		169.1								
	<input type="checkbox"/> Manual Work			200								
	<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.			200								
	<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.			200								
	<input type="checkbox"/> Power Stripping			250								
<input checked="" type="checkbox"/> Diamond or other Core drilling												
<input type="checkbox"/> Land Survey												

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 OFFICE
 FEB 23 1988
 RECEIVED

All the work was performed on Mining Claim(s): 647065 (716.6) - 827517 (302.5)

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

Drilling conducted by: Northwest Geophysics
 Box 3263,
 Thunder Bay, Ontario
 P7B 5E8

Dates Worked: September 2 to 9, 1987

SAULT STE. MARIE MINING DIV.
RECEIVED
 JAN 15 1988
 A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

Date of Report: January 8/88
 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
R.S. Hall
 1-27 Main Street, Toronto, Ont. M4E 2V5

Date Certified: Jan. 8/88
 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.		
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

NOTES

400' Surface Rights Reservation around the shores of all lakes and rivers

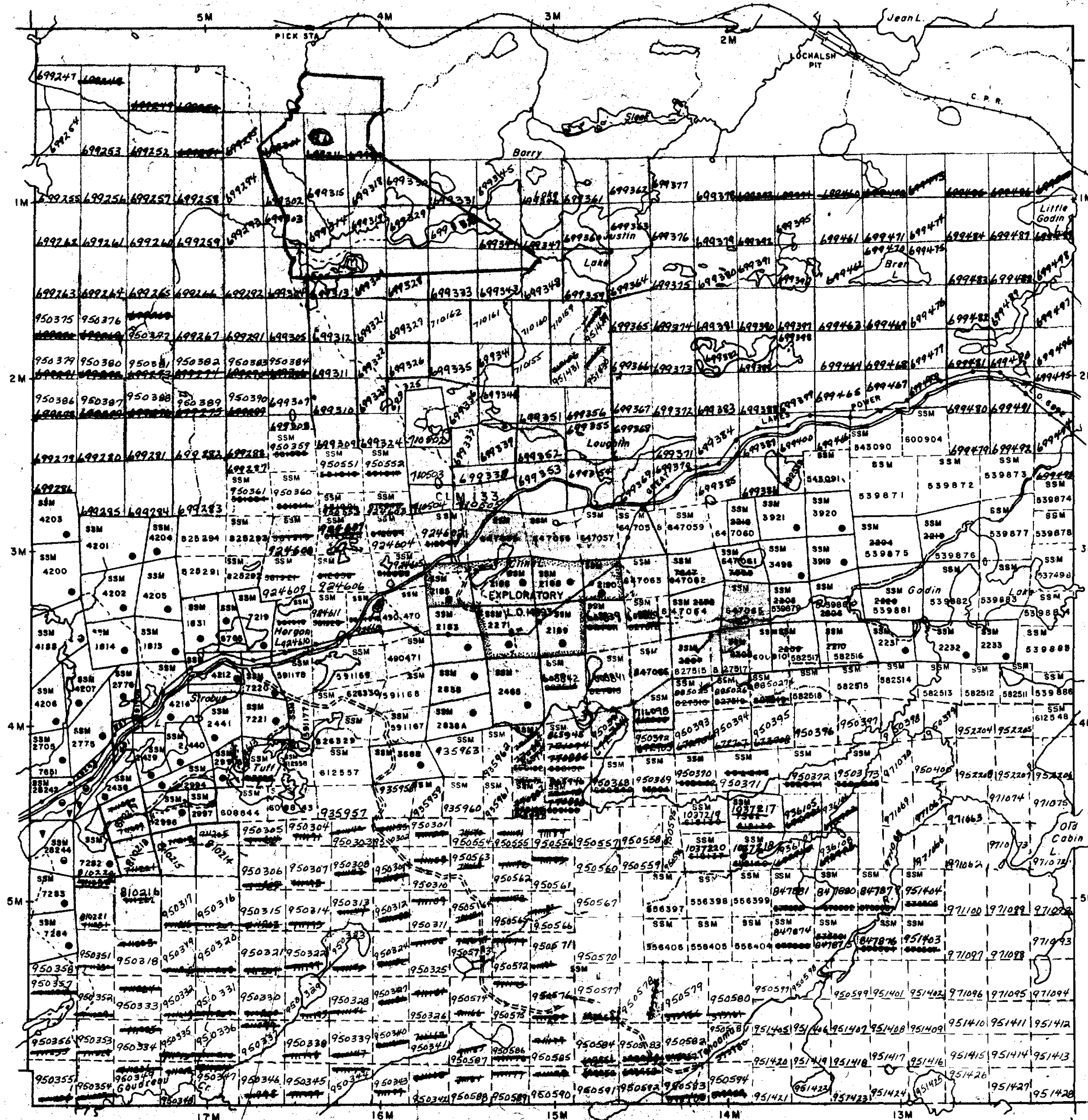
(R) The Surface Rights Policy of area with and without are withdrawn from Prospecting, Staking out, Section Lines under Sec. 50 (M.A.) R.S.O. 1980 - Order # W2/83 W.A.M. dated Feb 24/83

Re-opened for staking July 29/86 - Order # 0-42-86 SSM 61259.

DOCUMENT No. W8805-018

claims work performed on ✓ claims work applied to

LEGUERRIER TP. M.1585



FINAN TP. M.1584

RIGGS TP. M.1582

BIRD TP.

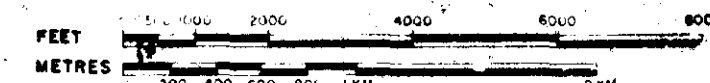
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	

SCALE: 1 INCH = 40 CHAINS



ACRES	HECTARES
40	16

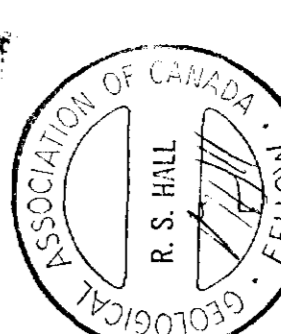
TOWNSHIP
JACOBSON
 (Former TP. 48)
 DISTRICT
 ALGOMA
 MINING DIVISION
 SAULT STE. MARIE

ONTARIO
 MINISTRY OF NATURAL RESOURCES

SURVEY AND MAPPING BRANCH
 DATE SEPT. '72 PLAN No.
 WHITNEY BLOCK QUEEN'S PARK, TORONTO **M.1583**

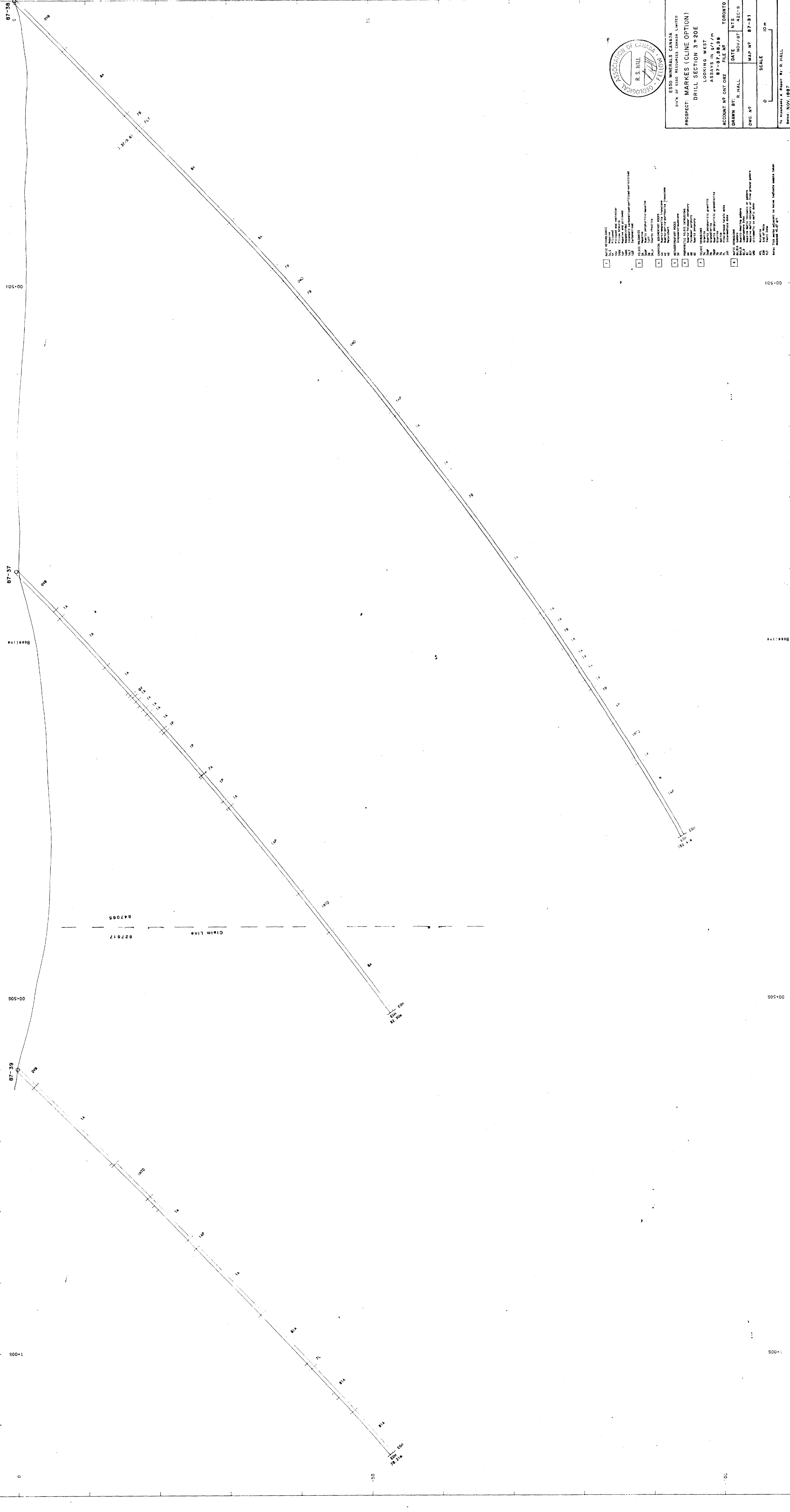


42C8858835 43 JACOBSON



ES&O MINERALS CANADA LIMITED
DIV'N OF ES&O RESOURCES CANADA LIMITED
PROSPECT: MARKES (CLINE OPTION)
DRILL SECTION 3+20E
LOOKING WEST
ASSAYS IN g/t/m
87-37,38,39
ACCOUNT NO. OMT ORE FILE NO.
DRAWN BY: R. HALL DATE: NOV/87 INTS: 42C-5 TORONTO
DWG. NO. MAP NO. 87-31
SCALE 10 m
TO: UNIVERSITY OF TORONTO R. HALL
DATE: NOV. 1987

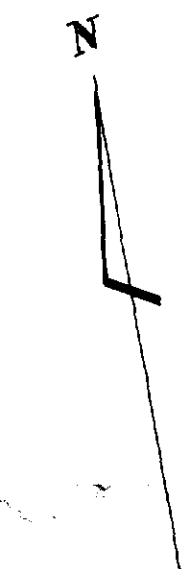
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- 3. 50% GRADE
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- 8. 30% GRADE
- 9. 40% GRADE
- 10. 50% GRADE
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- 12. 70% GRADE
- 13. 80% GRADE
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- 83. 780% GRADE
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- 90. 850% GRADE
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- 92. 870% GRADE
- 93. 880% GRADE
- 94. 890% GRADE
- 95. 900% GRADE
- 96. 910% GRADE
- 97. 920% GRADE
- 98. 930% GRADE
- 99. 940% GRADE
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- 103. 980% GRADE
- 104. 990% GRADE
- 105. 1000% GRADE



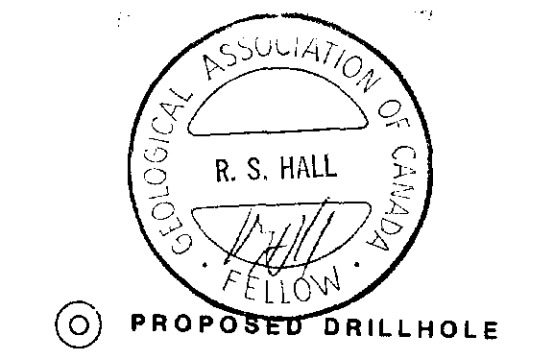


600W
500W
400W
300W
200W
100W
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100E
200E
300E
400E
500E
600E
700E
800E
900E

100S
200S
300S
400S
500S
600S
700S
800S
900S



- 1 MAFTIC METAVOLCANIC
 - 1a,c Massive
 - 1p Pillowed
 - 1pv Pillowed and vesicular
 - 1pbx Pillow breccia
 - 1ap Massive and pillowed
 - 1amg Amygdaloidal
 - 1alt Intensely carbonatized-pyritized-sericitized
 - 1gc Carbonatized
- 3 FELSIC VOLCANICS
 - 3a Massive
 - 3aqp Quartz porphyritic-massive
 - 3b Tuff
 - 3h,j Cherty rhyolite
- 4 CHEMICAL SEDIMENTARY ROCKS
 - 4a Quartz-magnetite ironstone
 - 4c Quartz-pyrite-pyrrhotite ironstone
 - 4g Meta-chert
- 5 METASEDIMENTARY ROCKS
 - 5d Greywacke-mudstone
- 6 PORPHYRITIC FELSIC INTRUSIONS
 - 6a Quartz-feldspar porphyry
 - 6b Feldspar porphyry
 - 6c Quartz porphyry
- 7 FELSIC INTRUSIONS
 - 7a Granite
 - 7aqp Quartz porphyritic granitic
 - 7b Granodiorite
 - 7bqp Quartz porphyritic granodiorite
 - 7d Diorite
 - 7g Aplite
 - 7l Fine-ground felsic dyke
 - INTD Intermediate dyke
- 8 MAFIC INTRUSIONS
 - 8a,8ba Gabbro
 - 8a,b Quartz-bearing gabbro
 - 8c,d Lamprophyre Dyke
 - 8f Massive mafic volcanic or gabbro
 - 8if Massive mafic volcanic or fine grained gabbro
 - UND Ultramafic to mafic dyke
- MYL Mylonite
- EOH End of Hole
- FLT Fault Zone



ESSO MINERALS CANADA DIV. OF ESSO RESOURCES CANADA LIMITED		
PROSPECT: MARKES-SEARS OPTION		
GEOLOGY and Proposed Drilling		
ACCOUNT NO M682	FILE NO 1682	TORONTO
DRAWN BY:	DATE NOV/87	NTS 42C-B
DWG NO 87-8	MAP NO	
SCALE 0 100 metres		
Company & Report By: R. HALL Date: NOV/87		

