



### DIAMOND DRILLING

TOWNSHIP: MONTCALM

REPORT No.: 21

WORK PERFORMED BY: GEOPHYSICAL ENGINEERING LTD.

CLAIM No.	HOLE NO.	FOOTAGE	DATE	NOTE
P 437993	EE-23/	247.5 m	Dec./76	(1)
	EE-30 -	160:6 m	Jan./77	(1)
	EE-62	207.0 m	Aug./77	(1)
	EE-66C	706.2 m	Feb./78	(1)
	EE-33 🗸	380.1 m	Jan./77	(1)

1701.4

NOTES: (1) # 287-80

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JOB 984EE1	HOLE EE-2	3	
N.T.S. 42B9	LAT 100S DEP 45E	(100.43	5)
TOWNSHIP Montcalm	DEP 45E	(44.30	E)
PROPERTY <u>Dighem Syndicate</u>	ELE'N_		
CLAIM NO.	DEDTU	222	. 67
DRILLED BY Bradley Brothers Ltd.	DEPTH	DIP	AZ
CORE SIZE AQ Wireline DEEPENING	Collar.		109°14'50
START December 7, 1976 START	0	-50°	110°
STOP December 11, 1976 STOP	32.9	-47°	
LENGTH 247.5 meters FINAL LENGTH	93.9	-43°	
LOGGED BY R. J. Graham LOGGED BY	154.8	-33 1/2°	
	184.1	-31 1/2°	
REMARKS	247.5	-24 1/2°	
Overburden 0-19.5 Clay 19.5-22.5 Sand			
<b>22.5-27</b> Gravel			
27-28.8 Boulders			
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HOLE NO. EE-23 DIAMOND DRILL LOG SHEET 1 METERS 0F 3 FROM · T0 ROCK TYPE DESCRIPTION 0 28.8 Casing 28.8 50.5 Granite Typical - badly broken up, numerous large seams & faults. At 41.4 Core ground 2.8 meters - sand seam. 50.5 71.3 Gabbro Felsic, coarse, porphyritic, scattered blue quartz eyes. Contact broken (50°?) 53.8-54.2 71.3 72.3 Dyke F.P. 30° to CA. Typical, numerous zoned feldspars. 72.3 80.9 Gabbro Felsic, coarse, porphyritic. At 72.8, 3cm F.P. dykelet 40° to CA. 80.9 84.6 Dyke F.P. 65,80° to CA. Typical with zoned feldspars 85.6 84.6 Gabbro Felsic, coarse, porphyritic. Rare trace PY. 85.6 100.6 Sulphide 85.6-90.5 10% PO,PY,CPY, as scattered Zone segregations & sections of massive "net" in Felsic texture to 20cm Gabbro 90.5-93.8 <1/2% PO,PY,CPY - Rare clots of PO, PY(CPY) to 1cm. Sparse feldspars, coarse porphyritic, no contacts, not a dyke. 93.8-100.6 2% PO, PY(CPY) - local patches to 2cm & weak local segregations. 100.6 102.5 Dyke, Contact sharp 25° to CA. Dark green, hard, fine grained, dioritic. Second contact sharp Mafic 70° to CA. Barren of sulphides. 102.5 109.3 102.5-106.5 3% PO,PY(CPY). Local patches to 5cm Sulphide 106.5-107.2 Actinolite dykelet, both contacts Zone in Felsic sharp but broken. Barren of sulphides. Gabbro 107.2-108.4 20% PO, PY(CPY) in sections to 30cm of massive "net" texture.
108.4-109.0 Dyke- F.P. 55°,45° no sulphides. 109-109.3 70% PO, PY, CPY - massive "net" texture in felsic gabbro 109.3 110.5 Gabbro Felsic, barren of sulphides. Typical, zoned feldspars, contacts 65°,45° to CA. 110.5 112.7 Dyke F.P. Rare trace PY.

112.7

177.2

Gabbro

Felsic, coarse, porphyritic to equigranular

At 152.6 0.9m ground core - fault seam. 128.3-128.8 1% PO, PY, CPY segregation.

strong 20° open fault at 120.2.

128.8-129.5 barren

HOLE NO. <u>EE-23</u>
SHEET 2 OF 3

METERS

TO ROCK TYPE FROM DESCRIPTION 129.5-130.1 One 10 cm massive PO, minor PY(CPY) & associated segregated PO,PY(CPY) 40% sulphides over the 0.6 meters 177.2 Typical hazy feldspars & bluish quartz eves. 179.0 Dyke ... Q.F.P. First contact strongly sheared & brecciated in a high angle fault. Second contact sharp 55° to CA. 10cm gabbro inclusion. 179.0 190.8 Felsic, coarse equigranular. 1.2 m ground Gabbro at 181.0 184.4-184.8 Q.F.P. dykelet, broken & 40° to CA. Dyke Q.F.P. 192.3 190.8 Typical as 172-179.0, granitic, hazy 192.3 194.3 Gabbro Felsic, coarse, equigranular. Strong fault at 194.2 194.3 197.3 Dyke Q.F.P. Contact sharp, 85° typical, 40cm gabbro inclusion, badly broken up. 197.3 199.6 Gabbro Felsic, coarse, porphyritic. At 199, two 10cm Q.F.P. 55° opposing 207.7 Dyke Q.F.P. 199.6 80° & broken. Typical. 40cm gabbro inclusion. 207.7 207.8 Gabbro Intensely sheared, felsic, 3cm grey fault gouge. 207.8 208.2 Typical, waxy aphanitic, pale salmon pink. Dvke -Core broken. Felsite Typical, with white quartz chlorite veining (20cm) 208.2 208.6 Dyke Q.F.P. 208.6 208.9 Gabbro Sheared! 90° to CA. 208.9 209.3 Dyke Q.F.P. Fairly typical, feldspars & quartz eyes very faint. Contacts sharp 85° 209.3 209.9 Dark brownish grey, intensely sheared 85° to CA. Dvke -Intermediate Cut by 3cm Q.F.P. dykelet 85° to CA. 209.9 222.0 Dvke Actinolite, typical dark green, soft, large blady amphiboles. Contacts broken (high angle). 212.9-213.1 Q.F.P. - core shattered. Could be a Actinolite xenolith or a dykelet. 223.7 222.0 Gabbro Felsic, hybrid, medium equigranular. 223.7 224.6 Dyke Dark grey, aphanitic, hard. Contacts broken Intermediate (high angle). Contacts chilled.

HOLE NO. <u>EE-23</u>
SHEET <u>3</u> OF <u>3</u>

METERS

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FROM	то	ROCK TYPE	DESCRIPTION
224.6	225.1	Gabbro	Felsic, coarse, porphyritic.
225.1	225.3	Dyke - Intermediate	Dark grey, contacts broken, (chilled contact areas)
225.3	225.6	Gabbro	Felsic coarse, porphyritic
225.6	225.9	Dyke Q.F.P.	Typical contacts sharp, 30°,60° to CA
225.9	235.3	Gabbro	Felsic coarse porphyritic. At 228.5, 10cm Q.F.P. dykelet, 30° to CA.
235.3	236.4	Dyke Q.F.P.	Typical, contacts broken, high angle(?) 20cm gabbro inclusion
236.4	247.5	Gabbro	Felsic coarse, porphyritic At 236.9, 10cm Q.F.P. dykelet 40°,80° 244-244.4 Q.F.P. dykelet 40° to CA
			End of hole 247.5
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JOB 984EE1		HOLE EE30	1	
N.T.S. 42B9	•	LAT25N		,
TOWNSHIP Montcalm		DEP 90E		
PROPERTY Dighem Syndica	te	ELE'N 500		
CLAIM NO.		Employa Proprieto Anti-Proprieto	1	
DRILLED BY Bradley Brother		DEPTH	DIP	AZ
CORE SIZE AQ		Collar		287°40'30
START January 16, 1977		0	-50°	290
STOP January 18, 1977		15.2	-49°	
LENGTH 160.6		76.2	-44 1/2°	
LOGGED BY R. J. Graham		137.2	-42 1/2°	
LUGGED DI K. O. GIAHAM	LOGGLU DI			
REMARKS	•			•
Overburden 0-15.2 (	Clay			
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#### DIAMOND DRILL LOG

METERS

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FROM.	ΤΟ .	ROCK TYPE	DESCRIPTION			
0	15.2	Casing				
15.2	61.9	Gabbro	15.2-17.5 Mafic, coarse (scattered) porphyriticat 16.0, 20cm corelength of (gradational) felsic, medium equigranular. 17.5-61.9 Felsic, medium equigranular. Strong faults as follows (to 43.0) 24.8, 40° to CA with 80cm of strong shearing. 25.7, 40° to CA with gouge. 26.9, 30° to CA. 31.4, 65° with gouge & slickensides 43.0 Intense 40° shear, (10cm) 57.5-58.3 Mafic, with sharp 50°,40° contacts, appears to be a dyke. 60.5-61.9 Strongly sheared, chloritized ±90° to CA.			
61.9	82 <b>.</b> 2	Granite	61.9-62.3 Intensely sheared 90° to CA 62.3-82.2 Typical coarse, porphyritic with innumerable bluish quartz eyes throughout. Feldspars orange (haematized). Second contact sheared at 85° to CA.			
82.2	100.1	Gabbro	82.2-100.1 Felsic, medium equigranular with short intermediate phases which tend to be coarse porphyritic. 91.9-92.1 and 92.9-95.3 dark mafic gabbro, sparse feldspars to 3mm. These are dykelike with sharp ±50° contacts. Local minor fine PY (<1%) Strong 3cm indurated shear at 95.3 96.8-97.6 Dyke? intermediate dark grey, hard, aphanitic, trace PY. Contacts sharp 55° 97.6-100.1 Considerable pale brown biotite throughout.			
100.1	109.6	Dyke Q.F.P.	Typical hazy granitic appearance, feldspars indistinct. Quite different appearance from the granite at 61.9 where the feldspars are prominent. Contacts sharp 70° to CA.			
109.6	123.8	Gabbro	109.6-123.8 Felsic(?) grey, considerable pale brown biotite to 109.9. Presumably altered by the Q.F.P. dyke. Blotchy, heterogeneous appearance to 111.8, then more uniform & more typical.  At 118.8 strong 20° fault seam with carbonate.			
123.8	153.3	Sulphide Zone in Mafic Gabbro,	123.8-134.7 Mafic - abrupt change, coarse porphyritic, locally equigranular, with the white feldspars prominent against the dark background.			
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HOLE	NO.	•	EE30		
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FROM	ТО	ROCK TYPE	DESCRIPTION
		locally with fragments	123.8-128.2 2% finely dissem. PO,PY,CPY & local "aggregates" in rounded clots to 2cm. 128.2-128.5 80% PO,PY,CPY "net" texture with. sparse amphibole porphyroblasts to 3mm. ½70° to CA. N.B. This may be a large "clot" of sulphides. 128.5-129.0 1% finely dissem. PO,PY,CPY & local rounded "clots" to 5mm. 129.0-131.4 50% heavily disseminated PO,PY,CPY with locally abundant CPY 131.4-131.6 2% locally disseminated PO,PY,CPY with considerable ankerite veining at 15° to CA. 131.6-132.7 50% heavily segregated PO,PY(CPY) with local PY porphyroblasts to lcm at 131.8 over locm corelength. 132.7-133.0 60% PY porphyroblasts in massive PO groundmass. 133.0-134.7 Massive PO with fine PY & local interstitial CPY & scattered PY porphyroblasts from 133.7-134.7 134.7-136.2 <1% fine disseminated sulphides in intermediate gabbro, coarsely porphyritic 136.2-146.6 2% local fine disseminated PO,PY(CPY) & occasional concentrations over corelengths to 10cm. 146.6-149.2 30% patchy disseminated PO,PY(CPY) 149.2-150.8 Massive PO with PY porphyroblasts to 5cm largely replaced by CPY! Local strong banding of sulphides at 70° to CA. 150.8-153.3 30% PO,PY(CPY) as fine dissemination throughout. N.B. Several distinct well rounded fragments of felsic gabbro to 15mm occur in the section.
153.3	160.6	Gabbro	Felsic, coarse, porphyritic, unmineralized. Contact with preceding unit is sharp at a sulphide stringer 60° to CA.
			End of hole 160.6 meters

GEOTHSTONE CHOINELKING LIMITED

JOB 984EE1		HOLE EE-6	2	
N.T.S. 42B9	•	LAT. 50 N		
T(WNSHIP Montcalm	•	DEP. 300	E	
PROPERTY Dighem Syndicate		ELE'N.		
CLAIM NO.	•	DEPTH	DIP	AZ
DRILLED BY Bradley Bros. L		Collar		
CORE SIZE AQ			-50°	290°
START Aug. 27/77		16.4 m	-52°	
STOP Aug. 30/77	STOP	76.2	-51°	
LENGTH 207.0 meters	FINAL LENGTH	138.4	-51°	
LOGGED BY R. J. Graham		207.0	-49°	
DEMADUS.			,	
<u>REMARKS</u>				
0l 0	Class			
Overburden 0 - 12.2 12.2 - 16.4	Sand & gravel		•	
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HOLE NO. EE-62
SHEET 1 OF 4

METERS

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FROM	TO.	ROCK TYPE	DESCRIPTION
0	16.4	Casing	
16.4	18.0	Gabbro	16.4 - 18.0 Felsic, coarse (to 5 mm) porphyritic locally weakly magnetic.
18.0	39.5	Dyke - granitic	18.0 - 39.5 Fine, equigranular, hard, grey to reddish pink (haematized) granitic (or dioritic) dyke. 1 mm cream feldspars in quartz rich groundmass. Rare trace PY. Not magnetic. Local streaks and areas of epidote and
			zoisite. Contact broken.  22.3 - 23.5 core ground, probable seam.  27.5 - 28.1 xenolith (?) of silicified, epidotized fine grained rock. Sharp 70° contacts.  31.1 - 31.4 core ground.
			38.7 - 39.5 as 27.5 - 28.1 xenolith? Contacts hazy and irregular.
39.5	40.2	Gabbro ?	39.5 - 40.2 Highly altered, feldspars yellow - was probably felsic, coarse porphyritic.
-40.2	41.9	Dyke, granitic	as 18.0 - 39.5 40.2 - 40.8 core ground. Second contact high angle, indistinct due to epidote.
41.9	44.1	Granite dyke	Coarse, equigranular, feldspars locally haematized, abundant bluish quartz. Considerable epidote.
44.]	45.2	Dyke - F.P.?	Brownish grey, locally fairly typical, numerous feldspars to 2 mm, locally zoned. Not magnetic. Contacts sharp, irregular. Ore 2 cm granite xenolith.
45.2	59.4	Granite dyke	as 41.9 - 44.1 Considerable epidote. 50.3 - 51.4 xenolith of felsic, coarse porphyritic gabbro, local rare traces PY, CPY. 53.7 - 54.1 Weak local quartz stringers to 2 cm. Irregular, (high angle).
59.4	60.6	Dyke,granitic	as 18.0 - 39.5, local slight resemblance to F.P. Contacts sharp, irregular.
60.6	61.5	Granite dyke	Coarse, equigranular, as 41.9 - 44.1
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HOLE NO. EE-62
SHEET 2 OF 4

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FROM	то	ROCK TYPE	DESCRIPTION
61.5	63.2	Gabbro	Felsic, coarse porphyritic, cut by numerous granitic dykelets at various angles. First and second contacts high angle.
63.2	64.8	Dyke,granitic	as 18.0 - 39.5, strongly epidotized, fine equigranular. Two 10 cm xenoliths of gabbro (Felsic, coarse porphyritic.)
64.8	66.3	Gabbro	Felsic, coarse porphyritic, not magnetic. Contacts high angle.
66.3	67.8	Dyke,granitic	as 18.0 - 39.5, fine equigranular.
67.8	68.2	Dyke, mafic	Black, finely gabbroic. One 1 cm granite xenolith. Contacts sharp, high angle, chilled.
68.2	165.6	Gabbro	68.2 - 165.6 Felsic, coarse porphyritic, rare fine trace PY. Patchy epidote. 69.0 - 69.2 granitic dykelet as 18.0 - 39.5, fine equigranular, (hazy). Contacts sharp, low angle. 71.4 - 71.6 Pink granite/QFP dykelet. N.B. At 73.0 Fault plane 40° to CA. 3 mm of haematized gouge. At 81.4 Fault plane, as above. 83.7 - 84.0 QFP dykelet, locally brecciated, pink, high angle sharp contacts. 87.1 - 87.2, 87.5 - 87.9 QFP dykelets, sharp 40° contacts. 98.1 - 98.2 QFP dykelet, high angle. 99.2 - 99.3 QFP dykelet, high angle. 99.4 - 102.7 Strongly epidotized, and brecciated with fault + 1 cm of grey gouge at 101.7. 103.9 - 104.2 QFP dyke, irregular high angle contacts. 104.7 - 104.8 QFP dykelet, irregular high angle contacts. 106.1 - 106.7 QFP dyke, 30° to CA. One 2 cm gabbro inclusion. Local epidote, quartz carbonate and some shear banding 30° to CA. 108.0 - 108.1 QFP dykelet, irregular contacts. At 112.2 low angle fault slip. 113.2 - 113.8 QFP dykelet rolling along CA. 114.3 - 114.6 QFP dykelet 50° to CA.

HOLE NO. EE-62

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SHEET 3 OF 4

FROM	TO <sub>.</sub>	ROCK TYPE	DESCRIPTION
e.,			At 119.5 low angle fault slip.  120.0 - 123.0 Blocky ground, some fault slips, low and high angles.  125.5 - 125.7 Two granite dykelets, prcminent tabular feldspars. 40° to CA.  129.8 - 133.8 Blocky ground, some fault slips, low and high angle. Feldspars locally haematized.  134.8 - 137.0 QFP dyke, contacts irregular.  138.4 - 138.8 QFP dykelet rolling along CA.  139.1 - 139.2 QFP dykelet, high angle.  147.4 - 148.7 Mafic dykelet, dark grey, finely equigranular with minute pinkish feldspars. Soft, similar to pyroxenite (which it may be a variety of). Rare trace PY. Contacts sharp 30° to CA and 60° to CA. This dyke is cut by a low angle 2 cm QFP dykelet.  148.7 - 151 Patchy areas of the above PX(?) dykelet occur on the gabbro at low angles, along with occasional 2-5 cm QFP dykelets with irregular contacts.  161.7 - 162.0 QFP dykelet, high (irregular) angle.  N.B. 162.4 - 162.9 Ultramafic, dark green, soft, coarse equigranular. Prominent phenocrysts of hornblende after pyroxene. Moderately magnetic. <1% finely
			<pre>disseminated PO, PY, (trace CPY). Contact sharp, irreg- ular high angle(?), second contact at a strong low angle fault slip.</pre>
165.6	166.1	Ultramafic	as 162.4 - 162.9 unmineralized, 40° to CA.
166.1	167.1	Gabbro	Felsic coarse porphyritic not magnetic.
167.1	173.7	Ultramafic	as 162.4 - 162.9 Very rare trace PO, CPY.
173.7	176.6	Gabbro	Highly epidotized, probably originally felsic, coarse porphyritic. N.B. at 174.1 strong 50° fault with 2 cm grey gouge. N.B. at 176.5 strong high angle fault.
176.6	177.6	QFP dyke	Pinkish, typical. Minor quartz stringers to 1 cm. Un-mineralized, contacts broken (high angle?)
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HOLE NO. EE-62

METERS

SHEET 4 0F

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FROM	ТО	ROCK TYPE	DESCRIPTION
177.6	186.3	Gabbro	Core largely rubble, numerous high angle faults. Felsic, coarse porphyritic.
186.3	186.6	QFP dyke	as 176.6 - 177.6 Contacts broken.
186.8	188.0	Gabbro	as 177.6 - 186.3 blocky, low and high angle faults.
188.0	189.3	QFP dyke	as 176.6 - 177.6 Contacts broken - high angle(?)
189.3	190.3	Gabbro	Felsic, medium equigranular.
190.3	198.0	Gabbro, Pegmatite	Very coarse, pegmatitic, with patchy blue quartz and orange feldspars. Not magnetic. High angle contacts.
198.0	206.7	Gabbro	Felsic, coarse, porphyritic, feldspars yellow to orange. At 206.5, 3 cm QFP dykelet, high angle.
206.7	207.0	QFP dyke	Typical, hazy granitic appearance, orange.
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#### GEORITOTONE ENGINEERING ETHITED

JOB . 984 EE1		HOLE EE66C		
N.T.S. 42 B/9		LAT. 00		
TOWNSHIP Montcalm		DEP. 332E		
PROPERTY Dighem Syndicat	e	ELE'N.		
CLAIM NO. P437993		DEPTH	DIP	AZ
DRILLED BY Bradley Bros.	Ltd.,	Collar		
CORE SIZE NQ	DEEPENING	0	-63	·
START February 27/78	START	15.8	-60	
STOPApril 3/78	STOP	44.5	-60	
LENGTH		76.2	-60 1/2	
LOGGED BY R.J. Graham		137.2	-60 1/2	
DEMANUO.		198.1	-61 1/2	
REMARKS		259.1	-61	
OVERBURDEN		320.0	-60 1/2	
<b>0-12.2</b> Clay <b>12.2-14.0</b> Sand, gravel		381.0	-59	
14.0-14.9 Gravel		442.0	-59 1/2	
Bedrock at 14.9, Casing to Drilled to replace EE66B (Li	15.8 ne 00, 322E)	502.9	-58	
which was abandoned at 126. flattening.		563.9	-57	
N.B.! Heavy water flow fro	m coam at	624.8	-55	
167.6	in seam at	,		
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DIAMOND DRILL LOG

HOLE NO. EE66
SHEET 1 OF 5

METERS

FROM	TO	ROCK TYPE	DESCRIPTION
0	14.9	CASING	
14.9	240.6	GABBRO FELSIC	Felsic to medium to coarse porphyritic, 3mm. Granitized throughout, with blue quartz eyes. The granitization is patchy and gradational, giving the core a heterogeneous
•			appearance. Epidote is ubiquitous but local in seams and patchy areas.  23.2-23.7 Dyke, intermediate, dark grey-green with scattered lmm cream feldspar contacts high and low angle, sharp.  27.0-27.6 Granite, pink, high angle (?)  30.0-30.2 Quartz stringers to 5cm T.W.  1% py in wallrock at second contact.  34.3-34.8 Dyke, intermediate as 23.2-23.7 with locm granitic section at 34.6 contacts sharp, high
			angle  37.4-37.7 White quartz, minor epidote.  47.1-49.9 Dyke intermediate as 23.2-23.7 core shattered to 48.8 probable fault.  N.B 49.3-49.9 almost black, may be a separate dyke as there is 5cm of granitized gabbro at 49.2. Contacts of dyke sharp, high angle.  52.8-53.8 Dyke, intermediate as 23.2-23.7.  54.8-57.8 Highly granitized plot as granite.
	· · · · · · · · · · · · · · · · · · ·		Feldspars all haematized.  57.8-60.0 Probably all more or less dyke, intermediate as 23.2-23.7 with 30cm of highly granitized gabbro from 59.2.  ±61.0-63.3 Dyke as 23.2-23.7 cut by numerous 2-5cm granite dykelets, all high angle. First contact broken, second high angle? Local trace py.  65.5-66.5 Dyke as above ± 45° to core axis (sharp)
			71.9-76.2 Dyke as above epidotized and with local granitic sections.  NB at 83.4 Strong 60° fault slip, slickensides ±40° to core axis.  88.1-88.5 Dyke as above, core shattered, probable fault.  100.4-102.8 Dyke, pale to dark grey/green, brecciated appearance. Minor fine traces cpy and py.  Contacts high angle (?) obscured by the epidotization.
· · · · ·			NB at 101.9 strong fault, parallel to core axis some gouge.  From ±106.6 the gabbro is much less granitized and the epidote is less pervasive. Local minor specks of py occur in 1-3cm patchy areas.  At 140.0 good evidence of strong low angle faults.  At 144.2-178.9 Numerous low angle faults.  164.5-166.0 Dyke, intermediate dark grey/green minor fine streaky py at first contact. Both contacts broken, one 3cm xenolith of felsic

# • DIAMOND DRILL LOG

HOLE	NO. <u>FE66</u>
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METERS

SHEET 2 OF 5

FROM	ТО	ROCK TYPE	DESCRIPTION
•		·	gabbro at 165.5. 168.2-175.4 Dyke, intermediate, pale/dark grey/green, high angle (broken contacts) rare traces py. 176.9-178.0 Granitic dykes to 40cm, high angles. 181.6-185.3 QFP? grey, finely equigranular, contacts
·.			sharp 60°, 80° to core axis. Hazy feldspars, very hard. 187.8 -188.7 QFP (?) dyke as 181.6-185.3 contacts sharp, high angle.
•	·		190.1-191.0 QFP (?) dykelets to 30cm as 181.6-185.3 all high angle.
,			192.7-193.5 QFP (?) dyke as 181.6-185.3. High and low angle contacts.  NB - 196.9-198.6 Intensely epidotized and numerous strong faults along core axis.
			201.5-202.2 Ultramafic dyke, almost black, soft, strongly schistose parallel to core axis. Strongly magnetic. High angle.
•		·	202.2-204.5 Dyke pale green, intermediate no feldspar seen, strongly epidotized. Contacts sharp high angle.
eren eren eren eren eren eren eren eren			205.1-205.5 Granitic dyke (QFP?). High angle. 205.9-207.0 Granitic dyke (QFP?). High angle. 209.1-209.6 Granitic dyke (QFP?). High angle. NB - The gabbro locally appears to be <u>slightly</u> less
•			felsic to 240.6.  237.2-237.4 QFP dykelet haematized, high angle.
240.6	254.7	MAFIC GABBRO POSSIBLY U.M (?)	Dark green soft, fine sparse buff leucoxene throughout. Traces cpy, py, locally. NB 244.6-247.0 Strong low angle fault with gouge.
254.7	273.8	INTERMEDIATE/ FELSIC GABBRO	254.7-273.8 medium porphyritic cut by dykes (below). 254.7-255.2 Dyke intermediate, pale grey, epidotized, finely pyritic (< 1%) 60°, 40° to core axis.
٠,٠			256.6-257.6 Dyke identical to 254.7-255.2 high and low angle contacts.
			258.5-261.4 Dyke identical to 254.7-255.2. NB - 263.0-263.6 Strong fault zone, core all rubble. Low angle (?).
			267.5-269.7 Dyke intermediate, locally haematized and brecciated. Unmineralized, high angle 269.1-269.4 Quartz vein, 70° to core axis.
			At 270.6 Major fault with 2cm gouge, 60° to core axis.  272.3-272.7 Granite dykelet, haematized, high angle to core axis.
٠.		,	NB - At 273.8 Gabbro becomes much more felsic, medium porphyritic, with orange feldspars, more massive At 277.0 and 278.1 probable faults core rubbly, and
· •. •.			some low and high angle slips with gouge.

# • DIAMOND DRILL LOG

HOLE NO. EE66

SHEET 3 OF 5

#### METERS \_

METERS			SHEET OF OF
ROM	Т0	ROCK TYPE	DESCRIPTION
			NB - At 297.6 Strong 30° fault seam with gouge. NB - At 309.2 Strong 30° fault seam with gouge.
318.2	326.7	ULTRAMAFIC	318.2-326.7 Ultramafic, very dark grey/green, soft, strong 60° schistosity <1% fine py and local traces cpy. 322.4-322.6 QFP dykelet, 45° to core axis. NB - At 326.6 Strong 60° gouge-filled fault.
326.7	328.1	QFP DYKE	Haematized contacts sharp 60° to core axis.
328.1	335.5	MAFIC GABBRO	Dark grey/green, faint scattered yellowish feldspar gradational second contact.
335.5	519.6	GABBRO -	Felsic-intermediate. 361.3-363.6 Numerous low angle fault slips 366.5-366.7 Strong fault core rubbly. 372.8-373.1 Strong fault 30° to core axis with gouge.
•			375.3-375.8 Strong fault core rubbly. At 401.6 5cm QFP dykelet 90° to core axis. 416.6-420.5 F.P. dyke (?) pale brown with scattered feldspars to 3mm. Contacts sharp 50° to core axis not typical.
		•	420.5-420.7 QFP dykelet, 50°, 70° to core axis. 426.4-428.0 QFP dyke, very low angle, with patches of intensely chloritic and schistose gabbro along core axis.
	**************************************		428.0-428.5 Intermediate gabbro, sheared, altered. 428.5-431.0 QFP/Felsite (?) Haematized, second contact brecciated. 431.0-437.9 F.P. (?) dyke not typical, as 416.6-420.5 but grey groundmass and scattered orange feldspars. First contact brecciated, second contact well chilled ±40° to core axis.  Strong fault at 434.3, 30° to core axis with gouge. 437.9-442.9 QFP/Felsite-grey to orange, brecciated, haematized, low angle contacts. Plot as felsite.
•			441.7-441.9 Strong 20° fault with gouge.  446.0-446.1 QFP/Felsite as 437.9-442.9 rolling along core axis. Plot as felsite, moderate 70° schistosity.  465.0-465.3 and 467.8-468.3 F.P. dykes grey, fairly typical, 45° to core axis.  485.8-487.0 Granite? fairly typical, medium equigranular pink, haematized low and high angle contacts.  494.1-494.5 QFP pink, ± 40° to core axis.  At 496.0 strong open fault 10° to core axis with slickensides 80° to core axis.

DIAMOND DRILL LOG.

HOLE NO. EE66

OF

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FROM TO ROCK TYPE DESCRIPTION NB at 498.8 Major 10° gouge filled fault for 0.5m. NB 501.4-502.0 and 506.5-507.2 Major low angle faults with high angle slickensides. 507.5-509.0 strong 60° schistosity. 509.0-511.2 QFP dyke, orange, high angle (irregular). 511.2-511.4 Dyke-Pyroxenite (?) fairly typical but well chilled with minor fine traces py. High angle contacts. NB 511.4-513.5 The gabbro gradually becomes more felsic. 513.5-519.6 Dyke-pyroxenite, typical, 60° to core axis. 519.6-527.9 Gabbro-Felsic! Closepacked coarse, (3mm) porphyritic. Trace cpy at 519.6. 527.9-532.7 Dyke-Pyroxenite, typical! Local traces fine py. Rare trace cpy in later high angle hairline quartz carbonate threads. Contacts well chilled, weakly pyritic, high angle. 532.7-545.3 Gabbro-Felsic! as 519.6-527.9. 543.1-543.3 Granite dykelet high angle (180°) pale grey with distinct porphyritic cream feldspars. 545.3-551.0 QFP/granite dyke, plot as QFP orange. Local hairline epidote threads 50° to core axis. 551.0-705.2 Gabbro, Felsic! as 519.6-527.9, but chloritic, altered, 50° schistosity to 555.6 then much fresher unaltered. NB - Intense fault shear 551.0-551.3 50° to core axis. At - 583.9 strong low-angle fault with gouge. 584.6-584.8 Granitic dykelet, 50° to core axis. At 592.5 strong low angle fault with high angle slickensides At 595.0 Strong low angle fault with high angle slickensides NB at 598.6 10cm well rounded inclusion of felsic (?) equigranular closepacked gabbro which has been faulted a few cm, py, minor cpy on slip face. 599.8-600.4 Trace py on longitudinal hairline clorite slip. 603.5-603.9 and 604.7-605.2 QFP dykelets, high angle (Academic) trace cpy. 614.7-617.6 Granite, pinkish/grey, contacts 40° (weak shearing in the adjacent gabbro for 20cm). Abundant blue quartz eyes to 3mm. 620.4-620.5 Grantic dykelet, 50° to core axis. NB - The gabbro from 619.6-623.4 is chloritized but still felsic, weak 50° foliation. 667.2-668.3 F.P. dyke, typical, sharp 50° contacts. 670.3-672.9 Granite, as 614.7-617.6. NB - 672.2-672.6 Pyroxenite dykelet, 70° to core axis. 672.9-674.3 Pyroxenite dyke, 50° to core axis. Contacts slightly sheared. 674.4-676.2 Granite, as 614.7-617.6. 685.3-686.4 Pyroxenite dyke 70° to core axis. 691.5-692.0 Pyroxenite dyke 80° to core axis.

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Meters		•••!	DIAMOND DRILL LOG	SHEET _	5_0F	5
FR014	ТО	ROCK TYPE	DESCRIPTION			***************************************
			At 693.5, 2cm quartz stringer trace cpy (one 2mm bleb). 694.1-694.5 Intermediate dyke 694.5-700.8 Felsite dyke type schistosity. NB At 694.7, 4cm intermediate cuts the felsite NB! 700.8-701.0 Major faulte slickensides 80° gouge. NB 705.2-706.2 Mafic gabbrowseen. Contact versions and strings of the contact versions.	ke, pale boical, said te dykelet 30° to co t, 40° to to core a	rown, aphanit mon pink, 40° as 694.1-694 re axis. core axis wit xis. Grey f	ic. .5 h ault py (?)
706.2		END OF HOLE		•		
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•	February 1, 1977			45.7	
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,	BY R. J. Graham		<del></del>	167.6	
			<del></del>	228.6	
REMARKS		•	•.	289.6	•
	Overburden 0-27 Cl	ay Sand & Gravel		350.5	
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167.6	-48°	
228.6	-40 1/2	0
289.6	-29 1/2	0
350.5	-15 1/2	٥
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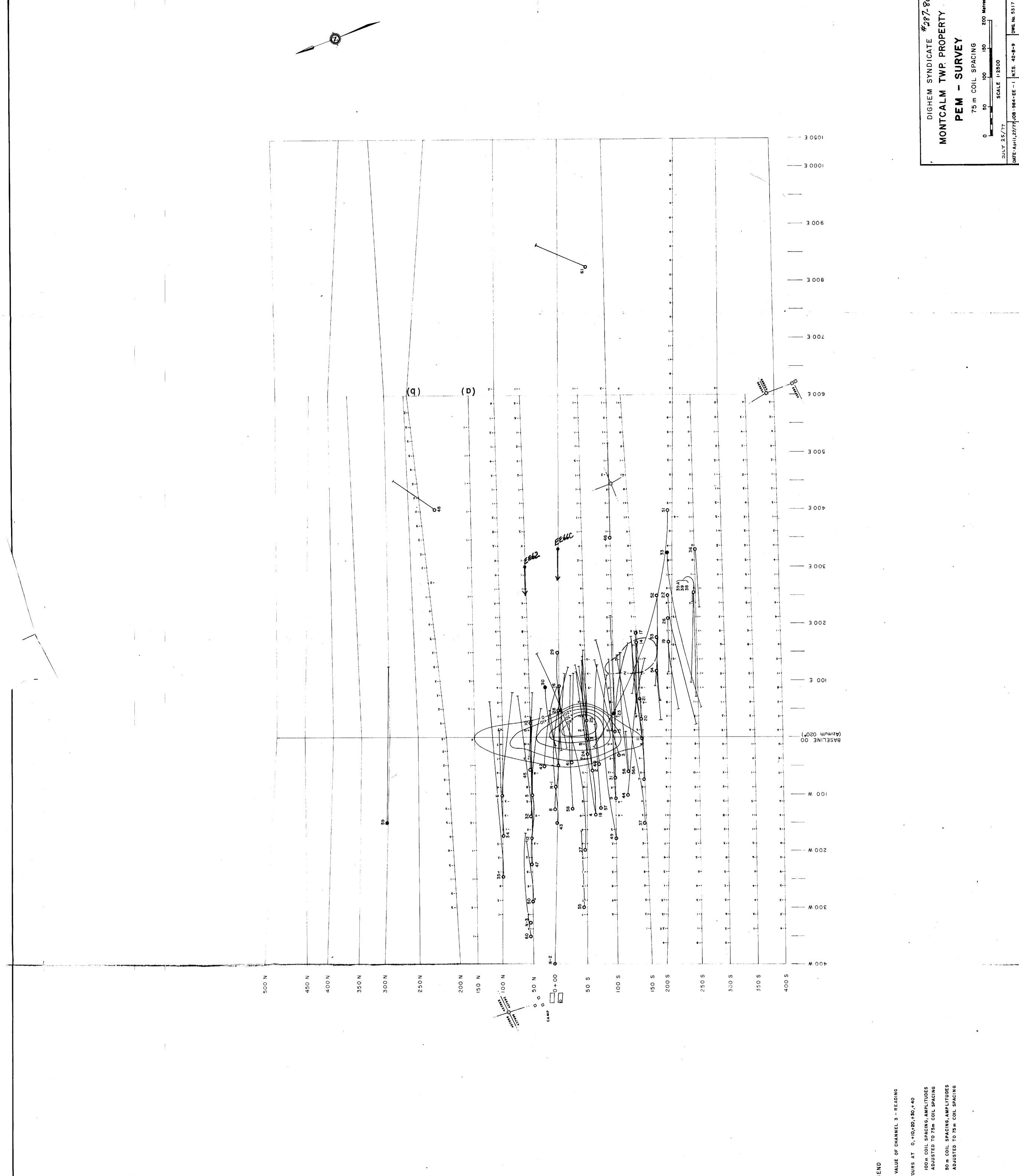
### DIAMOND DRILL LOG

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HOLE NO. <u>EE33</u>

SHEET <u>5</u> OF <u>5</u>

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FROM	TO	ROCK TYPE	DESCRIPTION
<b>319.4</b>	322.0	Dyke P.X.	Pyroxenite dyke -typical, contacts sharp, 50°,80° to CA. Dark green almost black, with characteristic "pock marks".  N.B. 320.1-320.3 core shattered, fault seam.
322.0	324.2	Dyke F.P.	Typical, grey brown. Age relationship to P.X. unclear, but numerous contraction cracks at contact suggest the F.P. is younger. Contacts sharp, 80°,65° to CA.
324.2	348.8	Gabbro	324.2-348.8 Felsic, equigranular, chloritic, altered, feldspars yellowish. At 333.4 strong fault slip, 20° to CA with prominent slickensides parallel to hole direction.
348.8	350.0	Dyke Intermediate	Dark grey, aphanitic, contacts sharp 55° to CA. Trace fine PY locally.
350.0	380.1	Gabbro	350.0-380.1 Mafic, medium equigranular, dark grey/green, hard, relatively "fresh", this phase not seen before.
			End of hole 380.1 meters
•		·	



CONTOURS AT 0,+10,+20,+30,+40
(a) 100m COIL SPACING, AMPLITUI

(<del>P</del>)