



41P125W0043 63.4929 CHESTER

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0M85-8-C-11

63.4929

Report on  
DIAMOND DRILLING

Carried out on the  
CHESTER MINERALS LTD.  
Chester Township Property

by

R. Bruce Durham  
June 10, 1985

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Robert S. Middleton Exploration Services Inc.  
P.O. Box 1637 Timmins, Ontario P4N 7W8

A three hole diamond drill program totaling 951 feet was carried out on behalf of Chester Minerals by Norex Drilling Ltd. of Porcupine, Ontario between May 14 and May 20, 1985. The drilling and subsequent core logging and splitting was done by Bruce Durham of Robert S. Middleton Exploration Services Inc.

The program was carried out on a block of patented mining land held by Gogama Resources Ltd. Recent work on the property is covered in reports by Bald, R., 1984 (covering geological mapping), Middleton, R., 1984 (covering induced polarization survey) and Cairns, N and Coster, I, 1984 (covering a power stripping and trenching program).

The first hole of the program was designed to test the down dip extension of known gold mineralization just south of the Chester Minerals property boundary. A well mineralized quartz chlorite vein was intersected between 172.6 and 176.7 feet. The section from 172.6 - 175 feet contained 0.038/ton Au while the section from 175 - 176.7 feet contained 0.004 oz/ton Au.

The section of moderately sericitized granodiorite from 226 - 230.7 feet appears to be the down dip extension of the mineralization found at surface. A 2.3 foot section from 228.4 to 230.7 feet contained 0.137 oz/ton Au.

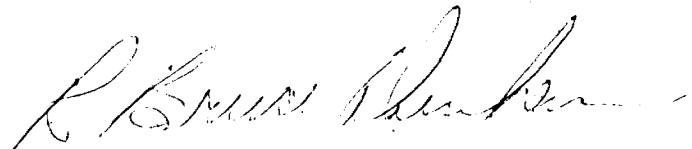
Hole 2 was drilled to test an induced polarization anomaly located on line 60W just south of the southwest shore of Cote Lake.

Powerstripping and sampling in the fall of 1984 near this IP anomaly returned values as high as .45 oz Au in grab samples taken in the course of mapping the trenches. The hole was drilled north under trench 1 and was designed to investigate two ill defined Induced Polarization anomalies. While similar rock units and anomalous amounts of gold were encountered, no well mineralized zones or wide veins were intersected.

Hole 3 was drilled 200 feet west of hole 2 to test a moderate Induced Polarization anomaly. The anomaly shape appears to indicate a near surface, narrow zone. A well mineralized fault was intersected from 72 to 76'. Minor to moderate sericite alteration was noted from 141 - 150 feet. A 1-2 foot section from 73 to 74.2 feet contained 0.054 oz/ton Au.

In view of the results obtained in recent programs, no further work is recommended.

Respectfully Submitted,



R. Bruce Durham

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

DIAMOND DRILL HOLE LOG

PROJECT:	Chester Minerals Ltd. M-55	HOLE NUMBER:	85 - C-1
AREA:	Gogama	LOCATION:	22W 2250S
CLAIM NUMBER:	S 20 000	AZIMUTH:	200°
CORE SIZE:	BQ	DIP:	-45°
DRILLED BY:	Norex Drilling	DATE:	May 14, 1985 - May 16, 1985
LOGGED BY:	Bruce Durham	CASING:	12'
CORE STORED AT:	Kirby Street Warehouse	LENGTH:	400
OBJECTIVE:		ACID TESTS:	



DIAMOND DRILL HOLE LOG

Footage		ROCK TYPE AND DESCRIPTION	Core to Axis	% phides	SAMPLE			Analytical Result	
From	To				Number	From	To	Length (feet)	AU ppb
0	12	CASING - Later reamed to 30'.							
12	39	<u>TRONDJEMITE/DIORITE</u> Highly broken and fractured, much ground core - recovery 80% overall. Frequent foreign rock fragments such as biotite gneiss, diabase granite.							
39	51.5	<u>GRANODIORITE</u> Pink coarse grained equigranular massive, uniform intrusive. Short sections show minor brecciation quartz grains appear to be light blue.  More abundant fracturing near contact. Minor hematite stain - contact - broken core - sharp.							
51.5	56.5	<u>DIORITE</u> Fine grained trace pyrite (near contact), quite massive, chloritic, minor epidote. Lower Contact - trace hematite	60°						
56.5	108	<u>GRANODIORITE</u> (as at 39-51.5) Pinkish towards upper contact then becoming lighter greyish green.  30% Chlorite, hornblende + other mafics 10-15% Quartz 60% Feldspars  94 - 97.7 Darker biotite rich section appears intrusive. 98 2" barren quartz vein 99 - 108 Slightly pink, more fractured - chlorite on fracture faces.							

Footage		ROCK TYPE AND DESCRIPTION	Core to Axis	% phides	SAMPLE			Analytical Result	
from	to				Number	From	To	Length (feet)	AU ppb
108	126.4	<u>GABBERO</u> Massive, uniform, dark green coarse grained gabbro, perhaps a volcanic remnant. Contacts are broken but finer grained minor epidote, calcite.							
126.4	172.6	<u>GRANODIORITE</u> (as above)							
		131 1/2" quartz vein at 30° to CA	30°						
		140 - 141.6 three 1/4" quartz veins minor bleaching along veins, trace chalcopyrite, pyrite			67535	140	141.6	1.6	17
		143 - 145 6" bleached, sericitic zone containing 1% chalcopyrite + 1/2" bleached zone with minor chalcopyrite			67536	143	145	2	58
		146.5 - 152.9 fine to medium grained, very dark lampro- phyre dike Contacts 55° and 60°							
		152.9 - 153.4 quite bleached, sericitic for 1' from contact + narrow bleached zone at 153 minor chalcopyrite, pyrite			67539	152.9	153.4	.5	27
		159.7 - 160.7 1/4" quartz vein @ 45°, minor sericite, chalcopyrite			67540	159.7	160.7	1	19
		170 1" diabase.							
172.6	176.7	<u>QUARTZ CHLORITE VEIN ZONE</u> 172.6 - 175 70% white quartz containing 10% pyrrhotite + chalcopyrite, very fine to coarse sulfides generally concentrated near 174.4 Remainder is sericitic granodiorite. Upper Contact 40°	40°		67537	172.6	175	2.4	0.038

DIAMOND DRILL HOLE LOG

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to axis	% Sulphides	SAMPLE			Analytical Result		
From	To				number	from	to	Length feet	Au ppm	Au g/t
		175 - 176.7 50% quartz containing 5% pyrrhotite and chalcopyrite, wall rock is sericitic granodiorite. Chlorite is extensive along the lower contact of the vein. Lower Contact 50°			67538	175	176.7	1.7		0.004
180	181	<u>FINE GRAINED DIABASE</u> Contacts 45° and 20°	50° 45° 20°							
181	225.1	<u>GABBRO</u> Typical dark green fresh, massive equigranular, homogeneous gabbro but cut by frequent, shallow angle aphanitic diabase dikelets.								
		194 - 198 diabase subparallel to CA. 206.9 - 297.7 becoming finer grained, from 217.5 more volcanic looking, cut by scattered, narrow calcitic stringers.								
225.1	240	<u>GRANODIORITE</u> Slightly more mafic. 226.4 - 228.4 minor sericite alteration. 228.4 - 230.7 moderately sericitic bleached, minor veining, trace arsenopyrite?, molybdenite, minor chalcopyrite, pyrite. 10-15% pyrrhotite over 6" at 229' - appears to be mylonitized 230.7 - 231.1 aphanitic diabase			67541 67542	226.4 228.4	228.4 230.7	2 2.3	64	0.137 *
240	257	<u>DIABASE</u> Aphanitic to fine grained moderately magnetic, uniform, equigranular, weakly fractured occasional hairline calcitic fracture Lower Contact 45°	45°							

DIAMOND DRILL HOLE LOG

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sulphides	Number	SAMPLE		Length (feet)	Au ppb	Au oz/t
From	To					From	To			
257	400	<p><u>QUARTZ DIORITE</u>                      Massive uniform equigranular quartz diorite containing 10-15% quartz, 30% mafics (amphibole + biotite, chlorite and 50% feldspars).                      Weak narrow bleached, sericitic zones as follows:                      267 - .2'                      272 - .3'                      283.1 - 1'                      295.7 - 296.3 - containing .05' section of semi massive pyrrhotite and minor chalcopyrite</p> <p>Becoming slightly more mafic downhole.                      323.5 - 325.5 schistose biotitic chloritic lamprophyre dike contacts</p> <p>337 0.1' quartz tourmaline vein containing pyrrhotite and minor chalcopyrite. No alteration along vein. Vein cuts core @ 40°.</p> <p>357.5 - 360 minor chalcopyrite in 1/4" quartz veinlet subparallel to CA.</p> <p>340.8 - 355 biotitic, chloritic lamprophyre dike.                      364 - 365 very minor chalcopyrite                      365 - 370 slightly grey matrix, monor sericite                      378 - 381 minor chalcopyrite, sericite alteration associated with 1/4" quartz vein subparallel to CA.                      388 - 389 minor-moderate sericite alteration, trace chalcopyrite.</p> <p>END OF HOLE **</p>			67751	295.7	296.3	.6	344	
400			70° 60°							

\* Checked

\*\* Samples other than gold listed separately at the



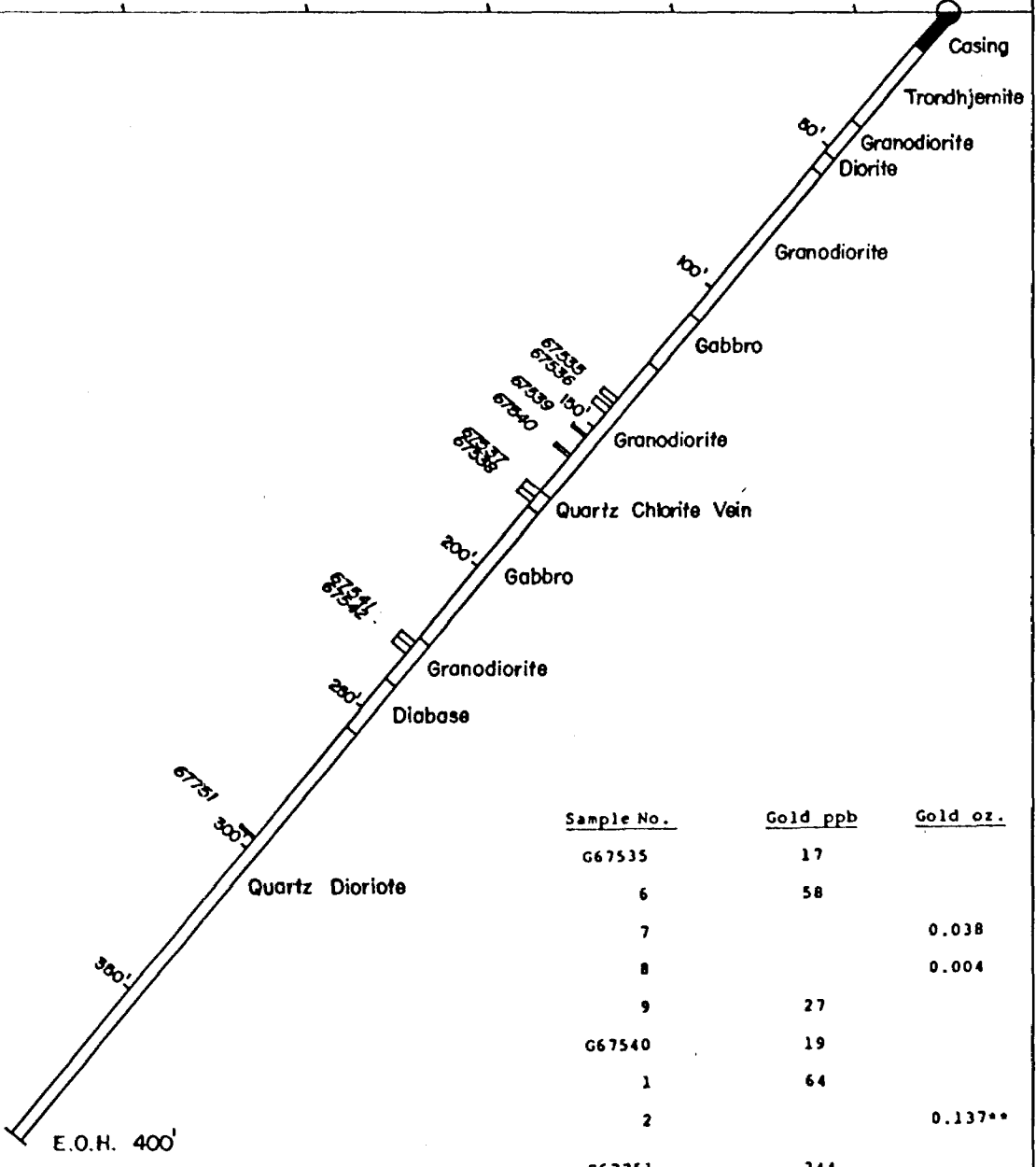
CHESTER MINERALS DRILL HOLE C-1

<u>Sample No.</u>	<u>Molybdenum ppm</u>	<u>Arsenic ppm</u>
67542	8	N.D.

N.B.: N.D. denotes "Not Detected"

28 S      27 S      26 S      25 S      24 S      23 S

C-1



Sample No.	Gold ppb	Gold oz.
G67535	17	
6	58	
7		0.038
8		0.004
9	27	
G67540	19	
1	64	
2		0.137**
G67751	344	

\*\* Checked

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CHESTER MINERALS	
	Title	DDH C-1 L 22 W	
	Date: June 1985	Scale: 1" = 50'	N.T.S.:
	Drawn: C.G.	Approved:	File: M-55

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

DIAMOND DRILL HOLE LOG

PROJECT:	Chester Minerals Ltd. M-55	HOLE NUMBER:	85 - C-2
AREA:	Gogama	LOCATION:	L60W 17S
CLAIM NUMBER:	Patented Land	AZIMUTH:	0°
CORE SIZE:	BQ	DIP:	-45°
DRILLED BY:	Norex Drilling	DATE:	May 16, 1985 - May 18, 1985
LOGGED BY:	Bruce Durham	CASING:	34'
CORE STORED AT:	Kirby Street Warehouse	LENGTH:	401
OBJECTIVE:		ACID TESTS:	

*Bruce Durham*

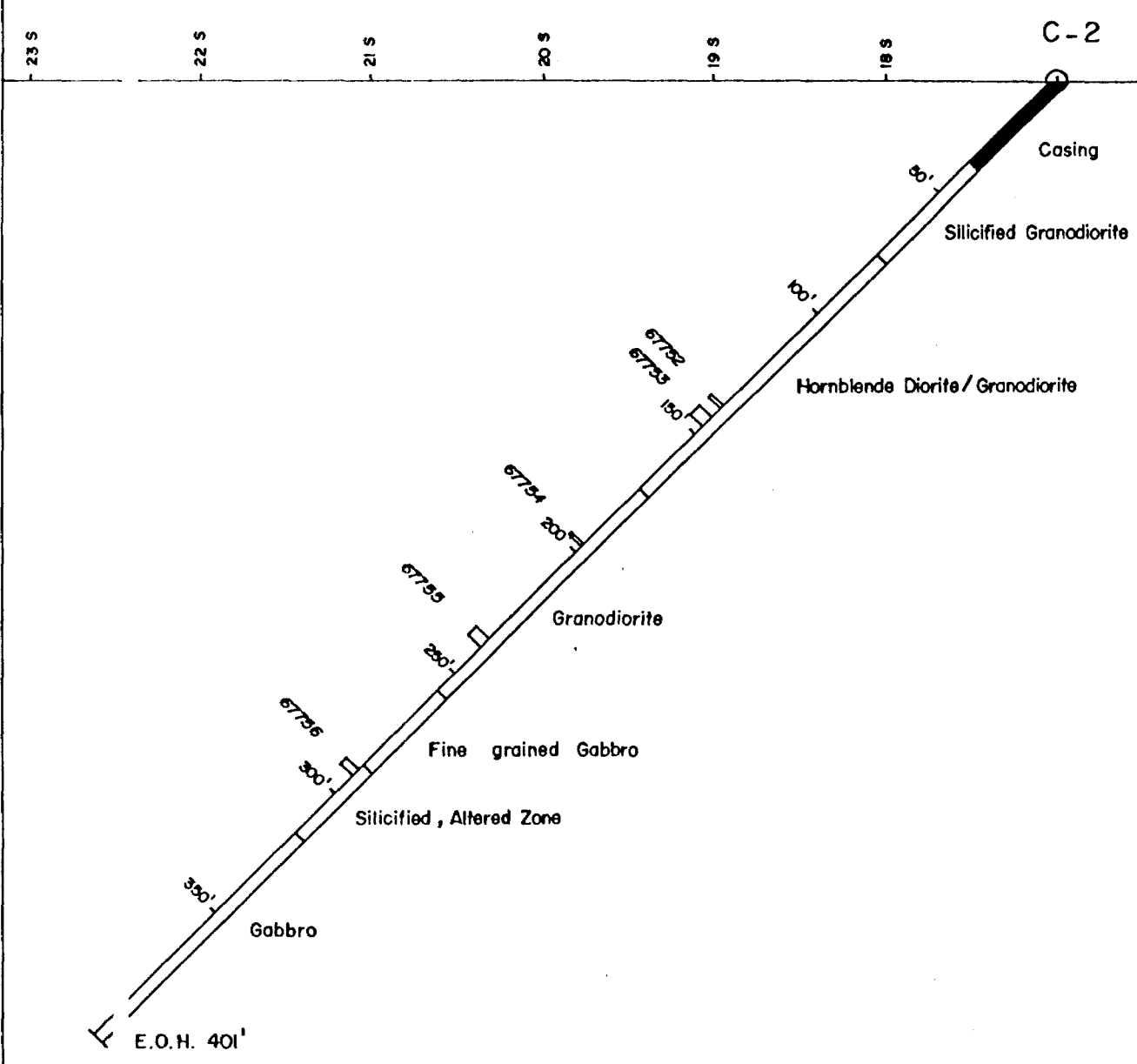
DIAMOND DRILL HOLE LOG

Footage		ROCK TYPE AND DESCRIPTION	Core to Axis	% phides	SAMPLE				Analytical Result	
from	to				Number	From	To	Length (feet)	Au ppb	Au oz/t
0	34	CASING								
34	73.7	<u>SILICIFIED GRANODIORITE</u> Generally fine grained to aphanitic quite fractured (chloritic) cream coloured weakly chloritic, sericitic unit. 43 - 50 fine-medium grained 51.2 - 51.5 moderate sericite, 1% pyrite + chalcopyrite								
73.7	171.2	<u>HORNBLLENDE DIORITE/GRANODIORITE</u> Massive uniform pinkish green to green medium grained. 86 - 89 pink altered granodiorite 99 - 149 dark green-pink, calcite altered schistose finer grained, perhaps a syenodiorite. 125.5 one speck of chalcopyrite in quartz, calcite stringers. 138 - 139 disseminated streak of chalcopyrite @ 20° to CA? 142.5 - 146.5 considerable calcite + quartz veining trace pyrite Lower Contact 10°	10°		67752 67753	138 142.5	139 146.5	1 4	196 15	
171.2	256.8	<u>GRANODIORITE</u> Pinkish cream massive, uniform equigranular weakly fractured (chlorite coated). 172 1/2" quartz stringer - minor pyrite 70° to CA 176 1/2" quartz stringer - minor pyrite, trace chalcopyrite, 70° to CA. 179.2 1/2" broken quartz stringer, trace pyrite, chalcopyrite. 181.5 .5 section very fine grained bleached white. 196 - 197 broken chlorite calcite vein with chalcopyrite clots @ 30° to CA. 220 less pink, fractured with occasional more bleached, fine grained sections. 235.5 - 239 fine grained fractured .5% disseminated pyrite + chalcopyrite.	70° 70° 30°		67754 67755	196 235.5	197 239	1 3.5	951* 115	

DIAMOND DRILL HOLE LOG

Footage		ROCK TYPE AND DESCRIPTION	Core Angle	% Sul-	SAMPLE			Analytical Result	
from	to				Number	From	To	Length	Au ppm
		243.3 3/4" barren quartz vein at 45° to CA. Lower Contact 45°	45°						
256.8	287	<u>FINE GRAINED GABRO</u> Fine to medium grained altered gabbro or volcanic remnant. White green chloritic contacts but grey green in central portion. Fine calcite is ubiquitous. 282.5 clot of chalcopyrite in clastic gash. 286 quartz calcite veining over .5'							
287	314.8	<u>SILICIFIED, ALTERED ZONE</u> Mixture of fine grained chlorite schist (as at 256.8 and siliceous aplite? 4" barren quartz vein at contact. 289 - 290.2 aplite 290 - 292.5 1/4" quartz vein at 55° with chalcopyrite splashes, minor disseminated chalcopyrite, pyrite throughout sample length. 293.5 - 295.5 aplitic-pink, fractured. 307 - 314.8 silicified-aplitic (altered granodiorite?)			67756	290.0	292.5	2.5	540*
314.8	401	<u>GABRO</u> Fine to coarse grained schistose, sheared to massive, uniform and equigranular - dark green rather fresh except where schistose. Where developed, shearing appears to be generally 20-30° to CA.	20-30°						
401		END OF HOLE							

\* Checked



Sample N	Gold ppb	Gold oz.
G67752	196	
3	15	
4	951**	
5	115	
6	540**	

\*\* Checked

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CHESTER MINERALS	
	Title	DDH C-2 L 60 W	
	Date: June 1985	Scale: 1" = 50'	N.T.S.:
	Drawn: C.G.	Approved:	File: M-55

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

DIAMOND DRILL HOLE LOG

PROJECT:	Chester Minerals Ltd. M-55	HOLE NUMBER:	85 - C-3
AREA:	Gogama	LOCATION:	L62W 16S
CLAIM NUMBER:	Patented Land	AZIMUTH:	0°
CORE SIZE:	BQ	DIP:	-45°
DRILLED BY:	Norex Drilling	DATE:	May 20, 1985
LOGGED BY:	Bruce Durham	CASING:	43'
CORE STORED AT:	Kirby Street Warehouse	LENGTH:	150
OBJECTIVE:		ACID TESTS:	

*Bruce Durham*

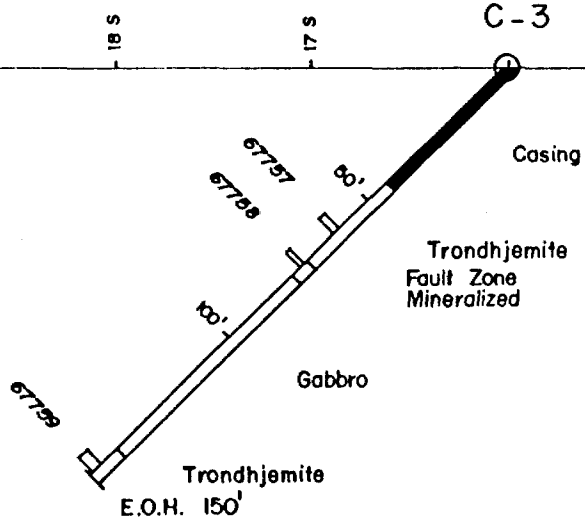
DIAMOND DRILL HOLE LOG

Footage		ROCK TYPE AND DESCRIPTION	Core Angle TO AXIS	% Sul- phides	SAMPLE			Analytical Result		
From	To				number	from	to	Length	Au	Au
0	43	CASING - gravel								
43	72	<u>TRONDJHEMITE</u> Fine to medium grained equigranular, almost aphanitic where more altered. Moderately fractured 60.5 - 62.5 .5% disseminated chalcopyrite, no discrete veining.			67757	60.5	62.5	2	344	
72	76	<u>FAULT ZONE</u> Chloritic, calcitic sheared zone, much broken core. Central portion from 73 - 74.2 is composed of a pyritic calcite vein containing up to 15% coarse disseminated pyrite.			67758	73	74.2	1.2		0.054*
76	141	<u>GABRO</u> (with dioritic phases) Massive to weakly sheared rather uniform, medium grained. 76.6 minor coarse disseminated pyrite. 85 - 102 more dioritic. 112 - 141 quite coarse grained.								
141	150	<u>TRONDJHEMITE</u> Bleached, fractured weakly sericitized, highly crushed zone, weakly sericitic trace pyrite. May be intense alteration of the diorite. 146 - 149 trace-.5% pyrite, minor-modererate sericite.			67759	146	149	3	174	
150		END OF HOLE								

\* Checked



20 S      19 S      18 S      17 S      C-3      16 S      14 S



Sample No.	Gold ppb	Gold oz.
67757	344	
67758		0.054**
67759	174	

\*\* Checked

REVISIONS


ROBERT S. MIDDLETON  
EXPLORATION SERVICES INC.  
for  
CHESTER MINERALS

Title  
DDH C-3  
L 62 W

Date: June 1985	Scale: 1" = 50'	N.T.S.:
Drawn: C.G.	Approved:	File: M-55

CHESTER TWP

RS-11

5 M

4 M

3 M

2 M



40 acres

for STAKING  
40 ACRES