

DIAMOND DRILLING



42A12SE0414 35 GODFREY

010

TOWNSHIP: GODFREY TWP.

REPORT No.: 35

WORK PERFORMED BY: TEXASGULF INCORPORATED

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 410424	G-51-4	1006.0	Aug./80	(1)
	G-51-5	997.0	Aug./80	(1) (2)

NOTES: (1) # 175-80  
(2) # 259-81



42A12SE0414 35 GODFREY

020

ASSESSMENT DRILLING

GODFREY 51 PROPERTY

GODFREY TOWNSHIP

# 175-80

N.T.S. 42-A-12/5

Timmins, Ontario

C.D.A. Comba  
August 21, 1980

SUMMARY:

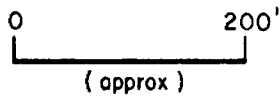
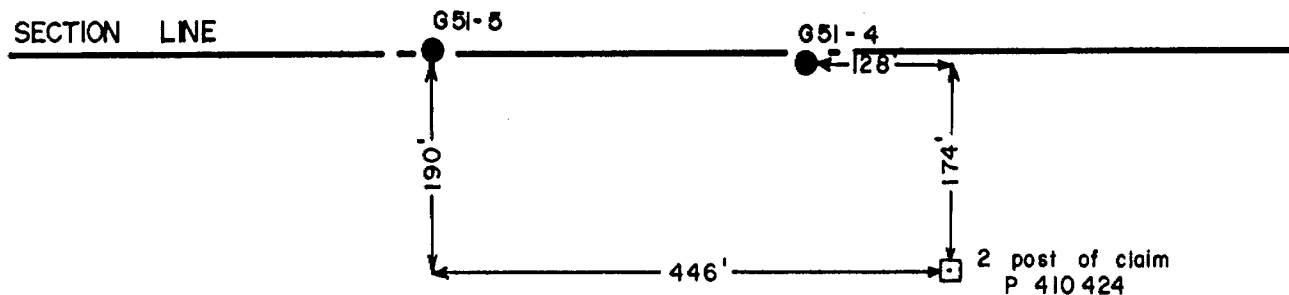
Two vertical holes were drilled in the southwest quarter of the south half of Lot 11 Concession V Godfrey Township on mining claim P-410424. Drilling to August 21, 1980 comprised of 1206 feet of BQ core. No commercially exploitable mineralization was encountered.

INTRODUCTION:

Drilling by Consolidated Brewis Mines Limited in the mid 1960's indicates interesting basemetal values in a stringer sulphide-type environment. The subject drill holes were laid out to investigate this mineralization at depth and to fill in gaps in the existing drill coverage.

GENERAL GEOLOGY:

Claim P-410424 is underlain by hydrothermally altered Archean lavas. The lavas are thought to strike north-south and dip steeply west (overturned?), but the attitudes and primary lithologies of the flows is presently conjectural. The northwest corner of the claims is underlain by gabbro and quartz diorite of the Kamkotia Gabbro Complex. A northerly trending diabase dyke occurs in the centre of the claim. The majority of outcropping volcanic rocks are characterized by east-northeast trending shearing. Chlorite, sericite and silica are the major alteration products. Sulphides, principally pyrite and pyrrhotite, occur as fine disseminations and stringers.



SOUTHWEST QUARTER SOUTH 1/2 LOT 11 CON V GODFREY TWP.

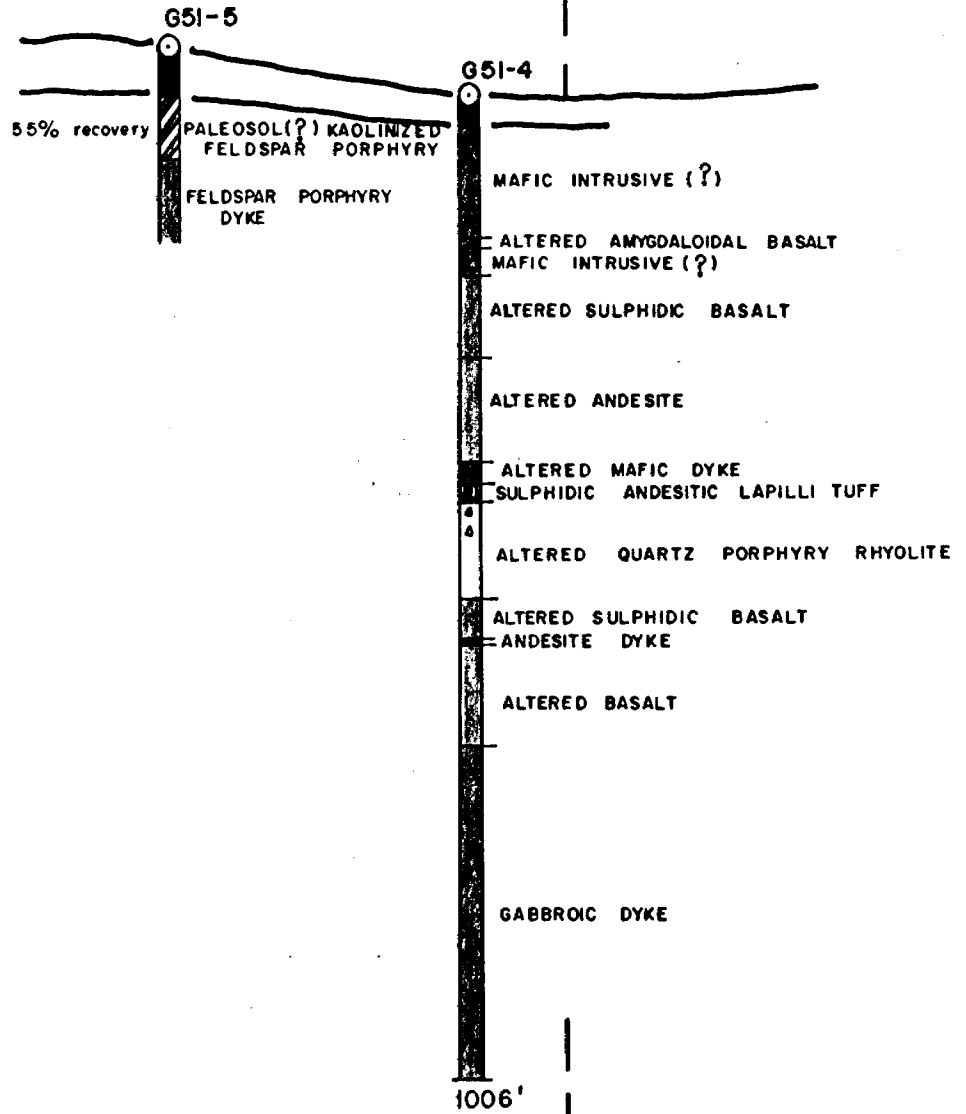
*— Dave Combs*

TEXASGULF Inc.	
Minerals Exploration Division	Timmins, ONTARIO
GODFREY 51 GODFREY Twp.	
PORCUPINE MINING DIVISION	
SKETCH MAP	
DRILL HOLES G 51-4 & G 51-5	
SCALE : 1" = 200'	Date : Combs
Drawn : DEL	Project No : 242
	Date : 08 / 80




WEST

EAST

Claim P 410424  
Claim P 410464



# LEGEND

-  Mafic dyke
-  Felsic lava
-  Mafic lava

*Dave Comba*

<b>TEXASGULF Inc.</b>	
Minerals Exploration Division	Timmins, ONTARIO
GODFREY 51 GODFREY Twp. PORCUPINE MINING DIVISION <b>SECTION SKETCH</b> <b>DRILL HOLES G 51-4</b> <b>&amp; G 51-5</b>	
SCALE : 1 = 200'	Date : Comba
Drawn : DEL	Project N <sup>o</sup> : 242 Date : 08/80

## ECONOMIC GEOLOGY

Claim P-410424 is underlain by stringer-type base metal mineralization associated with hydrothermally altered lavas. Relatively chalcopyrite-rich zones occur with more intensely chloritized lavas, sphalerite-rich zones are generally associated with sericitized lavas. No mineralization of a commercially exploitable nature is known.

### 1980 DRILLING PROGRAM

Two vertical holes were drilled on claim P-410424 in the southwest quarter of the south half of Lot 11 Concession V Godfrey Township. To August 21, 1980 1206 feet of BQ coring had been completed by Bradley Bros. Limited, drill contractor.

The drilling is summarized as follows:

HOLE NUMBER	DIP	LENGTH	STARTING DATE	FINISHING DATE
G-51-4	-90°	1006'	12/08/80	17/08/80
G-51-5	-90°	200'	19/08/80	21/08/80

Drill logs are appended (Appendix A).

### RESULTS

No economic sulphides were cored. A Xerox reduced copy of a completed Report of Work form is appended (Appendix B).

*Dave Comber*

PROPERTY Godfrey 51 PROJECT 242 **Texasgulf** CONTRACTOR Bradley Bros. START 12/8/80 FINISH 17/8/80  
HOLE No. G-51-4 GRID LOC. Refer to attached sketch ELEV.      Az.      DIP -90° LENGTH 1006 CORE SIZE BQ

FROM — TO	DESCRIPTION	SAMPLE No.	FROM — TO	SAMPLE LENGTH	ASSAYS				AVERAGES & REMARKS
0.0	28.0								
28.0	143.9								
143.9	152.0								
152.0	184.0								
184.0	266.0								

FROM — TO		DESCRIPTION	SAMPLE No.	FROM — TO	SAMPLE LENGTH	ASSAYS					AVERAGES & REMARKS
184.0	266.0	Con't									
		Best mineralization related to most pervasively chlorited sections.									
		Three to four percent sulphides overall, but short sections may contain 15 to 20% over several feet. Typical stringer sulphide habit, 70% fracture controlled, 30% disseminated. Pyrrhotite 55%, pyrite 20%, chalcopyrite 20%, sphalerite 5% of total sulphides present. Three centimetre wide chloritic shear at 45° to C.A. at 209.									
266.0	373.4	ALTERED ANDESITIC LAVAS:									
		Marbled white, olive green-grey and dark green. Aphanitic.									
		Aphyric. Appears to be fragmental but fractures and structures are identical to silicified top of the Amulet Formation, Noranda P.Q.. The later rock has been intensely hydrothermally altered from tholeiitic andesite to cal-alkalic rhyolite (Gibson, 1979 - MSc Thesis Carleton University). Two to three percent total sulphides as irregular discontinuous veinlets and disseminations, chalcopyrite-rich in more chloritic areas, sphalerite-rich in more sericitic areas.									
373.4	399.8	ALTERED MAFIC DYKE:									
		Light grey-green with brownish oxidized sections for first nine feet. Remainder of section dark green with beige specks.									
		Aphanitic to fine grained. Aphyric. Well developed chills. Upper contact undulates at approximately 35° to C.A., lower contact at 45°. Upper nine feet bleached and oxidized. Lower section strongly chloritized with 5 to 10% leucoxene as finely disseminated									



FROM — TO	DESCRIPTION	SAMPLE No.	FROM — TO	SAMPLE LENGTH	ASSAYS					AVERAGES & REMARKS
373.4	399.8	Con't								
		speckles. Less than ½% disseminated pyrite (euhedral).								
399.8	411.3	SULPHIDIC ANDESITIC LAPILLI TUFF:								
		Dark green with light grey to white mottling spotting and bronze streaking. Long axis clasts and layering at 40° to C.A..								
		Heterogeneous, strongly silicified and chloritized, weak to moderately sericitized.								
411.3	514.8	ALTERED QUARTZ PORPHYRITIC RHYOLITE:								
		Variegated light to medium grey and olive green with dark green mottling and white patches. Aphanitic with occasional quartz phenocrysts (1-2%) Breccia 411.3 to 450.0 uniform and massive 450.0 to 514.8. Strongly to intensely sericitized and silicified. Broken surface sugary. Moderate to strongly foliated at low angle to core axis. Short sections of strong chloritic alteration may represent hyaloclastite screens. Lower contact sharp, irregular at 25° to C.A.. Odd speck pyrrhotite.								
514.8	552.8	ALTERED SULPHIDIC BASALT:								
		Medium grey-green to dark green. Aphanitic. Aphyric. Five to eight percent amygdules overall but some highly vesicular sections to forty percent. Amygdules 1-3mm frequently filled by quartz with sulphide cores. Intensely chloritized, moderate silicification and silica dumping. Low fracture density. Total sulphide content 1-3%, sphalerite predominates as amygdale fillings, fine disseminations and irregular wispy vein stockworks.								

FROM — TO	DESCRIPTION	SAMPLE No.	FROM — TO	SAMPLE LENGTH	ASSAYS					AVERAGES & REMARKS
552.8	557.0	ANDESITE DYKE:								
		Medium grey with white and olive green bands. Aphanitic.								
		Aphyric. Upper contact sharp at 45°. Lower contact in fractures								
		altered zone at approximately 45°. Lower portion of dyke strong-								
		ly sericitized and silicified.								
577.0	665.8	ALTERED BASALT:								
		Dark green, green-black with light grey to white mottle.								
		Aphanitic-aphyric. Fault at 35° to C.A. at 559.2 to 560.2 with								
		associated white quartz-carbonate veining. Intense chloritic								
		alteration gradually decreasing down section. Weak to moderate								
		carbonate alteration, especially 650.0 to 665.8. Total sulphides								
		2-3% with short sections from several inches to three to four								
		feet up to 10-15%. Pyrite: pyrrhotite ratio 8:1.								
665.8	1006.0	GABBROIC DYKE:								
		Medium to dark green with green-black mottle. Occasional								
		sections of fine white-beige flecks. Upper chill at 75° to C.A..								
		Aphanitic for first few inches, gradational to fine grained.								
		Possible schlieren zone (feldspar phytic) 841.5 to 842.0. Low								
		to moderate fracture density. Fracture filling by quartz, carbon-								
		ate and minor epidote. Core reacts with dilute HCL from 665.8 to								
		862.0 and over odd short intervals thereafter. Finely disseminated								
		leucoxene throughout. Less than 1% pyrite overall. Weakly magnetic								
		820.0 to 852.0. Ground core 847.5 to 851.5.								
1006.0		END OF HOLE								

LOGGED BY: D. Comba

DATE: August 20, 1980

PROPERTY Godfrey 51

HOLE No. G-51-4

PAGE No. 4 of 4

# Texasgulf

PROPERTY Godfrey 51 PROJECT 242 CONTRACTOR Bradley Bros. START 10/08/80 FINISH 21/08/80  
 HOLE No. G-51-5 GRID LOC. Refer to attached sketch ELEV. \_\_\_\_\_ Az. \_\_\_\_\_ DIP -90° LENGTH 200' CORE SIZE BQ

FROM — TO	DESCRIPTION	SAMPLE No.	FROM — TO	SAMPLE LENGTH	ASSAYS					AVERAGES & REMARKS
0.0	50.0									
	CASING: In overburden. Hole later reamed to 110'.									
50.0	108.0									
	KAOLINIZED FELDSPAR PORPHYRY: Medium grey with high density of white flecks 50.0 to 63.0. Tan, light grey-green mottle in a rusty brown matrix 63.0 to 103.0. White zone 74.0 to 76.0. Dark green with light grey mottle and rusty spots and fracture planes 103.0 to 108.0. Medium to coarse grained feldspar phyrlic. Oxidized, kaolinized 63.0 to 108.0. 10-15% pyrolusite (MnO <sub>2</sub> ). Strongly chloritized 103.0 to 108.0. Fractured and blocky. Negligible sulphides Core recovery 55%.									
108.0	167.0									
	BLEACHED OXIDIZED FELDSPAR PORPHYRY DYKE: Light to medium grey with high density of white speckles. Streaks of white dark green and rusty brown. Medium to coarse grained feldspar phyrlic. Strongly fractured and blocky. 90-95% core recovery. 10 to 15% of section sheared and intensely chloritized at 20°-35° to core axis. Weakly carbonated and epidotized. Negligible sulphide content.									
167.0	200.0									
	FELDSPAR PORPHYRY INTRUSIVE: Variegated medium grey with densely packed white spots and green-grey with low density of hazy white spots. Fine to coarse									

*Dave Comba*

FROM — TO		DESCRIPTION	SAMPLE No.	FROM — TO	SAMPLE LENGTH	ASSAYS					AVERAGES & REMARKS
167.0	200.0	Con't									
		grained feldspar phytic with variable concentrations of feldspar phenocrysts. Short sections of moderate to strong chlorite, weakly carbonated. Chloritic shear with calcite veining at 25° to C.A. at 194.7. 1-2% pyrrhotite with trace pyrite, chalcopyrite, sphalerite 193.0 to 196.0 as fracture fillings and disseminations.									



42A12SE0414 35 GODFREY

030

ASSESSMENT DRILLING  
GODFREY 51 PROPERTY  
GODFREY TOWNSHIP

N.T.S. 41-A-12/5

C.D.A. Comba

Timmins, Ontario  
June 22, 1981

## SUMMARY

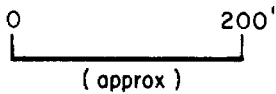
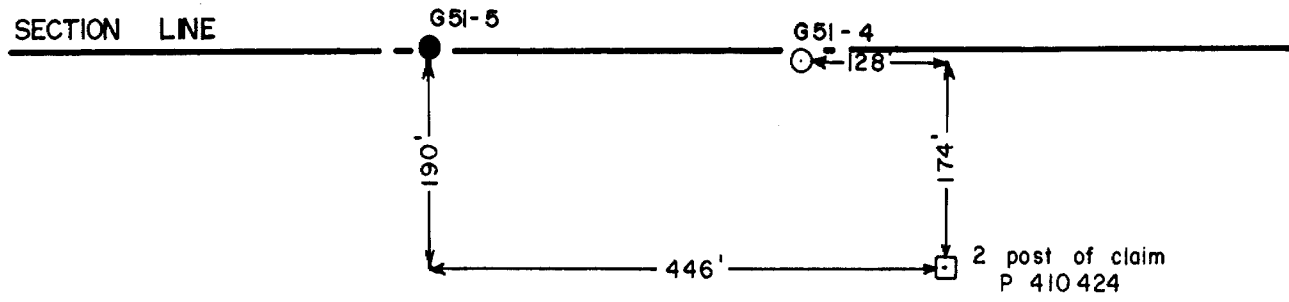
Two vertical holes were drilled in the southwest quarter of the south half of Lot 11 Concession V, Godfrey Township on mining claim P-410424. 1206 feet of BQ core drilling to August 21, 1980 was submitted for assessment August 22, 1980. The remaining 797 feet of BQ drilling from hole G-51-5 is the subject of this report. No commercially exploitable mineralization was encountered.

## INTRODUCTION

Drilling by Consolidated Brewis Mines Limited in the mid 1960's indicates interesting basemetal values in a stringer sulphide-type environment. Two vertical holes, G-51-4 and G-51-5, were laid out to investigate this mineralization at depth and to fill in the gaps in the existing drill coverage.

## GENERAL GEOLOGY

Claim P-410424 is underlain by hydrothermally altered Archean lavas. The lavas are thought to strike north-south and dip steeply west (overturned?), but the attitudes and primary lithologies of the flows is presently conjectural. The northwest corner of the claims is underlain by gabbro and quartz diorite of the Kamkotia Gabbro Complex. A northerly trending diabase dyke occurs in the centre of the claim. The majority of outcropping volcanic rocks are characterized by east-northeast trending shearing. Chlorite, sericite and silica are the major alteration products. Sulphides, principally pyrite and pyrrhotite, occurs as fine disseminations and stringers.



Southwest Quarter , South Half , Lot II Con V ; GODFREY Twp.

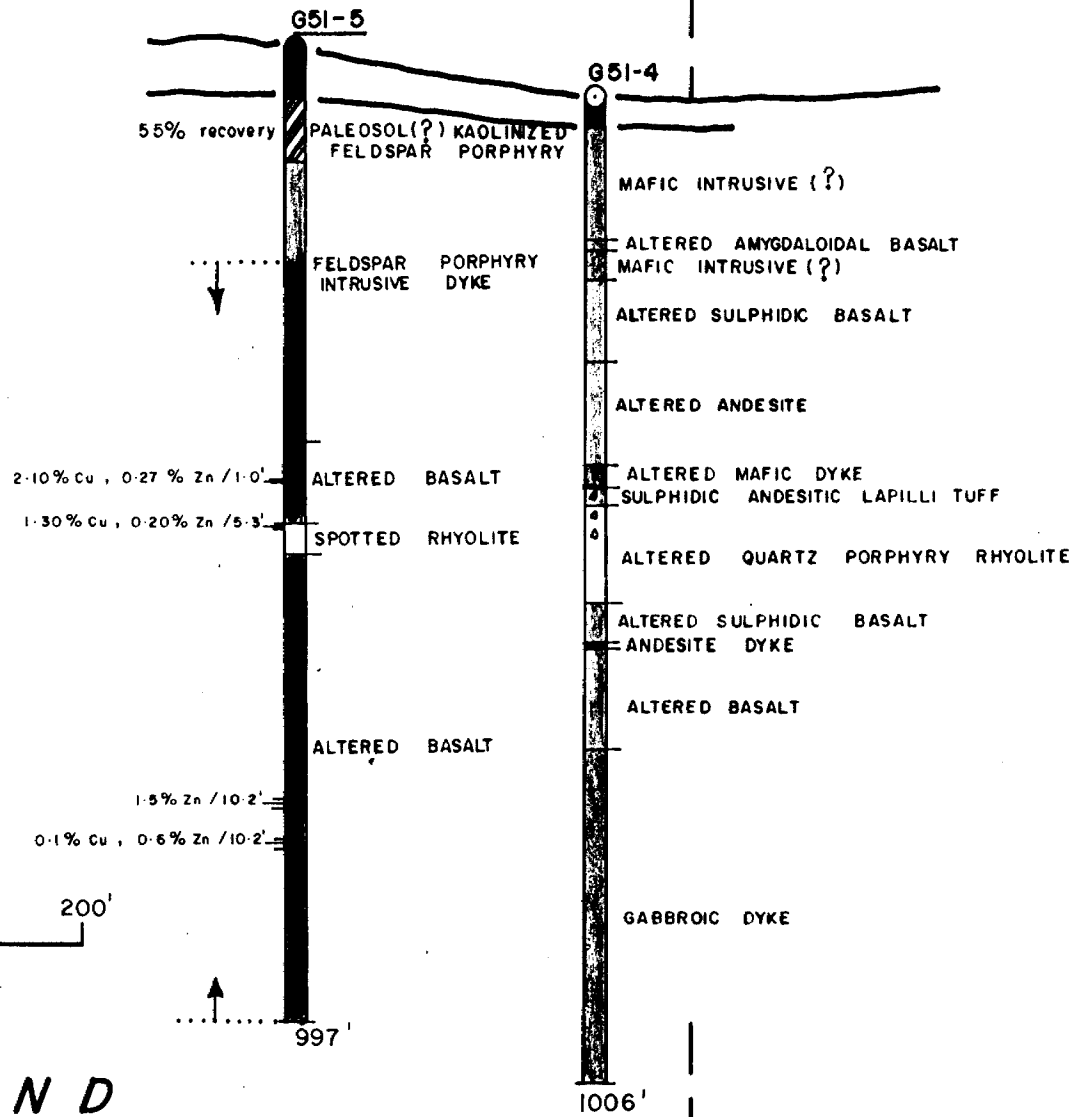
*Dave Combar*

TEXASGULF Inc.		
Minerals Exploration Division		Timmins ,ONTARIO
GODFREY 51		
GODFREY Twp.		
PORCUPINE MINING DIVISION		
SKETCH MAP		
DRILL HOLES G 51-4		
& G 51-5		
SCALE : 1" = 200'	Data : Comba	
Drawn : DEL	Project N <sup>o</sup> : 242	Date : 06 / 81




WEST

EAST

Claim P 410424  
Claim P 410464



# LEGEND

-  Mafic dyke
-  Felsic lava
-  Mafic lava

*Dave Combs*

<b>TEXASGULF Inc.</b>	
Minerals Exploration Division	Timmins, ONTARIO
GODFREY 51 GODFREY Twp. PORCUPINE MINING DIVISION	
<b>SECTION SKETCH</b>	
<b>DRILL HOLES G 51-4 &amp; G 51-5</b>	
SCALE : 1 = 200'	Data : Comba
Drawn : DEL	Project No : 242 Date : 06/81



ECONOMIC GEOLOGY

Claim P-410424 is underlain by stringer-type base metal mineralization associated with hydrothermally altered lavas. Relatively chalcopyrite-rich zones occur with more intensely chloritized lavas, sphalerite-rich zones are generally associated with sericitized lavas. No mineralization of a commercially exploitable nature is known.

1980 DRILLING PROGRAM

Two vertical holes were drilled on claim P-410424 in the southwest quarter of the south half Lot 11 Concession V, Godfrey Township. To August 21, 1980, 1206 feet of BQ drilling had been completed by Bradley Bros. Limited, drill contractor. This drilling was submitted for assessment August 22, 1980. An additional 797 feet of BQ coring was completed by Bradley Bros. Limited between August 21, 1980 and August 25, 1980. The final 797 feet of hole G-51-5 is the subject of this report.

The drilling is summarized as follows:

HOLE #	DIP	LENGTH	STARTING DATE	FINISHING DATE
G-51-4	-90°	1006	12/08/80	17/08/80
G-51-5	-90°	<u>997</u>	19/08/80	25/08/80
		2003*		

\* 1206 feet filed for assessment August 22, 1980. Balance, 797 feet, is filed with this report.

Drill log for final portion of hole G-51-5 is appended (Appendix A).

RESULTS

No economic sulphides were cored. A Xerox reduced copy of a completed Report of Work form is appended (Appendix B).

*- Dave Combs*

**DRILL HOLE RECORD**

HOLE NO. .G-51-5..... PROPERTY ..GODFREY.51 PROJECT NO. 242..... CONTRACTOR BRADLEY!S START ...19/08/80.....  
FINISH ...25/08/80.....

COORDINATES Grid Location: Latitude ..... UTM: Lat. .... Surveyed: Lat. .... Mine Grid: Lat. ....  
Departure ..... Dep. .... Dep. .... Dep. ....  
Elevation ..... Elev. ....

COLLAR ATTITUDE Azimuth ..... Dip ..90° LENGTH .....997' CORE SIZE .....BQ

**INCLINATION TESTS**

**Acid Tests**

**Compass Tests**

Depth	Dip
200'	80°
400'	87°
600'	86°
800'	84°

Depth	Dip

Depth	Dip	Azimuth	True Azimuth
924'	82°	123°	111°

**REMARKS**

FIRST 200' DRILLING FILED FOR ASSESSMENT AUGUST 22, 1980.  
LAST 797' SUBJECT THIS LOG.

*Dave Comba*

FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	STRUCTURE	ALTERATION	SULPHIDES	REMARKS
200.0	403.9	FELDSPAR PORPHYRY INTRUSIVE	Medium green to grey with variable densities of white spots interspersed with dark green or black and white veining	Fine grained	Medium to course grain feldspar phyric	Moderate to strongly fractured 250.0 - 349.1 with weak shearing evident in chlorite-rich zones: 250.0 - 250.9 253.9 - 265.1 272.0 - 274.6 275.9 - 280.8 301.8 - 306.1 325.1 - 328.1	Feldspar phenocrysts in chloritized sections are largely destroyed	Total sulphides 0.5% to 1.0% : pyrrhotite 95% chalcopyrite 3-4% sphalerite 1-2% Sulphides occur as tiny irregular veinlets disseminated and blebs.	Mafic dyke with aphanitic chills at 50-55° to core axis cuts feldspar porphyry between 349.0 - 353.3
403.9	484.9	ALTERED BASALT	Medium to dark grey-green marbled by light grey, green-black and olive green	Aphanitic	Aphyric	Weakly amygdaloidal with alteration on fractures producing pseudo-brecciated appearance. Minor fault at 45° to core axis at 433.4	Alteration relationships suggest following order of development: 1. silicification 2. sericitization 3. chloritization Intensely sericitized 457.0 - 484.9	Total sulphides 3/4% overall. pyrite, pyrrhotite ratio 4:3. Chalcopyrite-rich stringer 440.6 to 441.6.	Carbonated mafic dyke 461.9 - 478.0.

FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	STRUCTURE	ALTERATION	SULPHIDES	REMARKS
484.9	517.1	SPOTTED RHYOLITE	Medium to dark grey - green with black spotting	Aphanitic	Aphyric	White (silicified?) matrix areas 65% to chloritized "clasts". Breccia appearance may be due to alteration.	Chloritized 35% possibly silicified	Total sulphide 2-3% overall but short sections up to 10-15% Fracture controlled Chalcopyrite-rich veinlet 484.9 - 490.2	
517.1	997.0	ALTERED BASALT	Medium to dark green mottled by light grey-green	Aphanitic	Aphyric	Weakly amygdaloidal overall with short sections to 10-20%. Minor sections of flow breccia possibly broken pillow breccia	Strongly chloritized, silicified by vein stockwork and variably carbonated. Many sections of core react vigorously with dilute HCL.	Total sulphides 2-3% but local concentrations of disseminated and stringer-type sulphides. Sphalerite-rich sections: 764.4 - 774.6 808.4 - 818.6	
	997.0	END OF HOLE							

DIAMOND DRILL CORE ASSAY RECORD

SAMPLE NUMBER	FROM	TO	ESTIMATE			Feet LENGTH	ASSAYS				AVERAGE ASSAYS AND REMARKS								
			Cu	Zn			% Cu	% Zn	ppbAu	ppmAg	FROM	TO	LENGTH	Cu	Zn	Au	Ag		
E 1419	440.6	441.6				1.0	2.10	0.27	8	21.0									
E 1423	484.9	490.2				5.3	1.30	0.20	55	6.5									
10001	764.4	769.4				5.0	--	2.1	5	0.7			764.4	774.6	10.2	---	1.5	---	---
10002	769.4	774.6				5.2	--	0.9	3	0.7									
10005	808.4	813.4				5.0	0.1	0.7	4	0.3			808.4	818.6	10.2	0.1	0.6	---	---
10006	813.4	818.6				5.2	0.1	0.4	3	0.2									