

DIAMOND DRILLING



010

TOWNSHIP: Godfrey

REPORT No.: 37

WORK PERFORMED BY: Texasgulf Inc.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 410424	G 5-6	1096.0	Sept/81	(1)

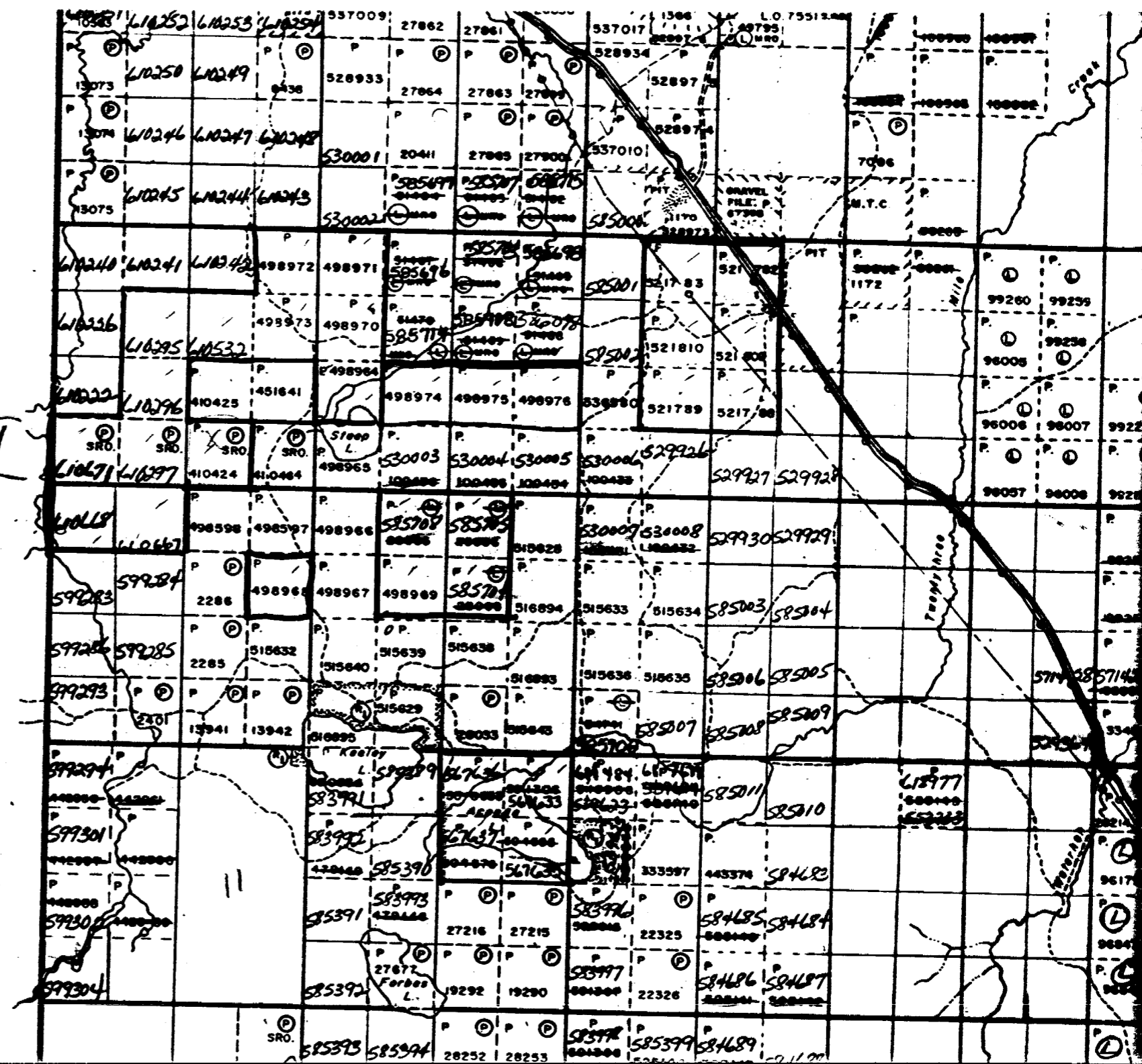
NOTES: (1) #416-81

GODFREY TWP

*Godfrey Twp  
M-284*

#416-81

Turnbull Twp. (M.316)



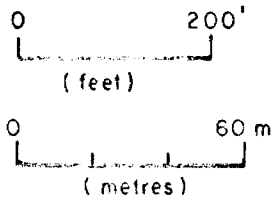
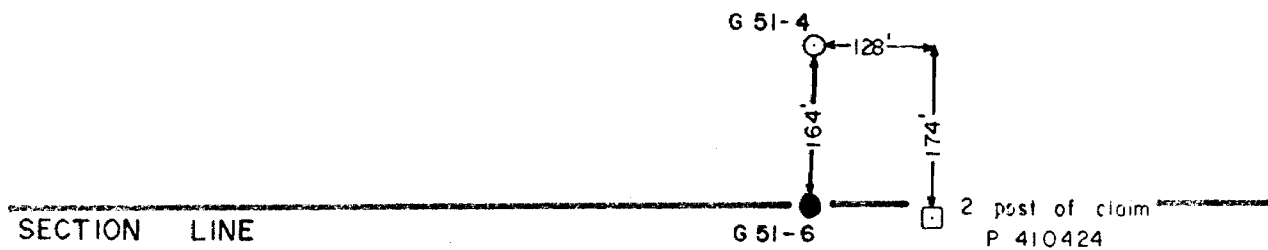


FIGURE 1




Southwest Quarter, South Half, Lot 11 Con V; GODFREY Twp.

<b>TEXASGULF Inc.</b>		
Minerals Exploration Division		Timmins, ONTARIO
GODFREY 51		
GODFREY Twp.		
PORCUPINE MINING DIVISION		
<b>SKETCH MAP</b>		
<b>DRILL HOLE G 51-6</b>		
SCALE : 1" = 200'	Date : Bulc	
Drawn : DEL	Project N <sup>o</sup> : 242	Date : 10 / 81

Claim P 410424  
 Claim P 410464

G 51-6

**LEGEND**

-  FELSIC
-  MAFIC
-  MAFIC INTRUSION

MAFIC (carbonated)

MAFIC (sulphidic)

MAFIC (carbonated)

MAFIC (sulphidic)

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC INTRUSION

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

FELSIC (quartz phenocrysts rare)

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

FELSIC (few quartz phenocrysts)

MAFIC INTRUSION (non carbonated)

FELSIC VOLCANIC (very weakly quartz porphyritic)

MAFIC (carbonated)

MAFIC (with leucoxenes, non carbonated)

1096'




<b>TEXASGULF Inc.</b>		
Minerals Exploration Division	Timmins, ONTARIO	
GODFREY 51		
GODFREY Twp.		
PORCUPINE MINING DIVISION		
<b>DRILL HOLE</b>		
<b>G 51-6</b>		
(Looking North)		
SCALE : 1" = 100'	Data : Bulc	
Drawn : DEL	Project No : 242	Date : 10 / 81

**FIGURE 2**

G 51-6

Claim P 410424  
Claim P 410464

**LEGEND**

-  FELSIC
-  MAFIC
-  MAFIC INTRUSION

MAFIC (carbonated)

MAFIC (sulphidic)

MAFIC (carbonated)

MAFIC (sulphidic)

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC INTRUSION

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

FELSIC (quartz phenocrysts rare)

MAFIC (carbonated)

QUARTZ PORPHYRITIC FELSIC

MAFIC (carbonated)

FELSIC (few quartz phenocrysts)

MAFIC INTRUSION (non carbonated)

FELSIC VOLCANIC (very weakly quartz porphyritic)

MAFIC (carbonated)

MAFIC (with leucoxenes, non carbonated)

334.06 m

<b>TEXASGULF Inc.</b>		
Minerals Exploration Division		Timmins, ONTARIO
GODFREY 51		
GODFREY Twp.		
PORCUPINE MINING DIVISION		
<b>DRILL HOLE</b>		
<b>G 51-6</b>		
(Looking North)		
SCALE : 1 cm = 20m	Data : Bula	
Drawn : DEL	Project N <sup>o</sup> : 242	Date : 10 / 81

**FIGURE 3**

**Texasgulf** Inc.  
EXPLORATION

**DRILL HOLE RECORD**

HOLE NO. G-51-6 ..... PROPERTY GODFREY ..... PROJECT NO. ...242..... CONTRACTOR Bradley Brothers START ...September 26/81

FINISH ...October 4/81...

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

COLLAR ATTITUDE      Azimuth ..... Dip ...-90°...      LENGTH .334.06m.      CORE SIZE ..B.Q.....

**INCLINATION TESTS**

Acid Tests

Compass Tests

Acid Tests		Compass Tests			
Depth	Dip	Depth	Dip	Azimuth	True Azimuth
75.7m	88.5m				
148.9m	87.5m				
228.2m	87.5m				
329.4m	87.5m				

REMARKS : (NOTE: Correction factor of 1 meter = 3.2808 feet)

*Ron J. Bula*

FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	STRUCTURE	ALTERATION	SULPHIDES	REMARKS
0	9.50	CASING							
9.50	23.60	MAFIC (WEAKLY CARBONATED)	Pale green-grey	Aphanitic to fine grained	Uniform and homogeneous	Weak planar fabric locally developed -lower contact gradational (?) over 2-4cm	Weakly carbonated throughout -carbonate veinlets cut core obliquely and are frequently encountered	Negligible	Carbonate is calcium carbonate and increases slightly, downhole
23.60	30.48	MAFIC (SULPHIDIC)	Green-grey	Fine grained	Weak mottling due to more chloritic material -speckled with pale white dots less than 1 square millimeter in size; (leucoxenenes)	Very weak planar fabric noted at various angles to core axis -fault with slickensides noted at 28.50 meters being 50° to core axis	Weak to moderately chloritic	Pyrrhotite, pyrite sphalerite and chalcopyrite present throughout much of section Overall: pyrrhotite - 1% pyrite - 0.2% sphalerite - 0.5% chalcopyrite - trace - mineralization occurs as disseminations and thin stringers	Lacks calcium carbonate material -interesting sphalerite stringers noted at 25.91 - 30.48m
30.48	35.97	MAFIC (CARBONATED)	Grey to pale green-grey	Aphanitic to fine grained	Uniform -homogeneous -pale buff white speckles dot core averaging less than 1 square millimeter in size	Few structural breaks (joints?) at low angle to core axis -generally massive -upper contact marked by quartz/ carbonate vein at 15° to core axis -lower contact at 45° to core axis and diffuse	Moderate calcium carbonate noted throughout section	Only rare pyrite cubic disseminations noted	Similar to section 9.50m - 23.60m

FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	STRUCTURE	ALTERATION	SULPHIDES	REMARKS
35.97	37.03	MAFIC (SULPHIDIC)	Dark green-grey	Aphanitic to fine grained	Possibly amygdular (several spheroid chloritic pods noted)	Weak fabric at 40° to core axis	Chloritic locally -carbonate (calcium) veinlets cut core occasionally	Pyrite noted throughout as fine to medium grained cubic disseminations -from 36.85m-37.00m 25% pyrite noted as medium to coarse grained cubic disseminations -sphalerite and chalcopyrite are rarely noted and take on the form of fine grained disseminations	Interesting sulphides in a chloritic non-carbonated mafic
37.03	82.45	MAFIC (CARBONATED)	Greenish-grey	Aphanitic to fine grained	Uniform -possible amygdules noted at 51.57 meters -xenolith of mafic material noted at 46.39m	Lower contact at weak shear (?) zone at 20° to core axis -carbonate veinlets cut core at predominantly low angles to core axis	Calcium carbonate noted throughout section -few quartz/carbonate veinlets 2-3 centimeters thick cut core at high angle to core axis	Pyrrhotite noted as fine grained disseminations from 37.15 to 38.71m averaging 0.5% -sphalerite noted as fine grained disseminations through much of core averaging less than 0.2% -chalcopyrite occurs as fine grained disseminations noted only locally in trace amounts -at 4.75 a 4.0 centimeter wide stringer type band cuts core at 45° to core axis -it contains 20% pyrite and 20%	Possibly cyclic intrusion with weak chill zones noted within section



FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	STRUCTURE	ALTERATION	SULPHIDES	REMARKS
7.03	82.45	Continued....						sphalerite as fine to medium grained disseminations -pyrrhotite detected by magnet only -pyrite/sphalerite stringer noted at 73.15m consisting of 60% pyrite and 25% sphalerite, both occurring as disseminations and blebs	
82.45	91.66	QUARTZ PORPHYRITIC FELSIC	Grey and mottled	Aphanitic -quartz eyes up to 1 square millimeter	Weak breccia detected locally -core appears tuffaceous over last 2 meters of section	Upper contact broken -lower contact sharp and at 45° to core axis	Silica and chlorite alteration strong here -sericite alteration locally notable	Pyrrhotite, chalcopyrite and pyrite form clotty stringers up to 2 centimeters in width being concentrated at 86.86-87.30m and at 89.61m-91.66m -here sulphides total 5-6% -overall pyrrhotite -2% pyrite-0.2% chalcopyrite-0.2%	Highly altered quartz porphyritic rhyolite -quartz phenocrysts average 0.5% through core however may be quite variable in abundance
91.66	92.02	MAFIC	Grey-green	Aphanitic (chill zone) to fine grained	Appears chilled at upper contact -weak flow laminations 1cm wide at upper contact over 10cm	Upper contact sharp and at 45° to core axis -lower contact sharp and at 45-50° to core axis	Minor quartz veining	Pyrrhotite noted as wispy stringers throughout section and averages 1.0-1.5% -trace to minor chalcopyrite with pyrrhotite blebs	Flow laminated intrusion

FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	STRUCTURE	ALTERATION	SULPHIDES	REMARKS
.02	210.01	QUARTZ PORPHYRITIC FELSIC	Dark green to mottled green and white	Aphanitic	Mottled texture due to alteration with silica dumping -rounded to subrounded silicic pods resemble either rounded fragments or obscure amygdules	Possible flow laminations noted in top 3 meters of section -patchy diffuse silicification noted at lower end of unit -most contacts show slight chilling of mafics and cut core at 40° to 50° to core axis	Moderate silicification noted in top 3 meters of section -patchy diffuse silicification noted locally often associated with slightly more porphyritic zones -more massive sections are sericitic -silica dumping may locally be very apparent -calcium carbonate throughout mafic intrusions and within hairline fracture in both mafic, and in felsic rocks (more abundant in mafic rocks) near contacts -chloritic material may form discrete irregular shaped patches -alteration tends to decrease towards end of section	Pyrrhotite and pyrite through sections within unit averaging less than 0.5% however from 92.02-95.00m wispy stringers containing 2% pyrrhotite, 1% pyrite and less than 1% chalcopyrite -sections may be void of one or all sulphides mentioned -at 132.36 to 132.38 in contact zone chalcopyrite (8%) and pyrrhotite (17%) occur as wispy stringers within weak fabric	Mineralized quartz porphyritic felsic volcanic -possibly few quartz amygdules noted -cut by several intrusions which are mafic and carbonated moderately -mafic intrusions cut section at following intervals: 1) 96.18 - 103.94 2) 125.52 - 128.32 3) 132.38 - 136.25 4) 168.74 - 172.21 5) 179.83 - 186.54
210.01	219.09	MAFIC INTRUSION	Dark green in central part of unit and buff grey at contacts	Chilled zones at contact to fine grained zones within unit	Excellent chilled margins -flow features noted at contact zone of intrusion	Intrusion cuts core at very low angle to core axis	Possible contact metasomatism suggested because pale grey color -section is not carbonated as other mafic intrusions noted earlier	Negligible	Appears to be a near vertical intrusion -not carbonated and therefore different from all other intrusions mentioned

FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	STRUCTURE	ALTERATION	SULPHIDES	REMARKS
19.09	220.53	FELSIC VOLCANIC (FLOW LAMINATED TO WEAKLY FRAGMENTAL)	Light white to dark grey	Aphanitic	Flow laminations frequent through section -subtle blocky fragmental suggested towards end of section	Flow laminations cut core at 40° to core axis -upper contact at 20° to core axis -lower contact at a quartz vein at 90° to core axis	Preferential silicifica- tion along flow lamin- ations and select frag- ments -relatively weakly altered sections are common -peculiar epidote green color noted at lower contact	Negligible	Lower contact diffuse and questionable
220.53	334.06	MAFIC (CARBONATED)	Dark green to green	Aphanitic to fine grained	Uniform -slight coarsening downhole	Upper contact at 90° to core axis -several weak shear (?) zones noted (i.e. 233.46m)	Abundant calcium carbonate to 271m where calcium is no longer detected Epidote discoloration noted over 1 meter at top of section -leucoxenes (?) noted from 259 to end of unit averaging 2-3% and 1 square millimeter	Locally thin pyrite stringers and cubic disseminations -overall less than 0.1% pyrite	Thick intrusion coarsening downhole -similar to carbonated mafic described earlier -leucoxenes are light to buff brown