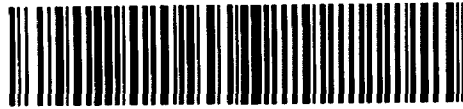


Done



41P12SW0022 10 BENNEWEIS

010

Diamond Drilling

Township OF BENNEWEIS

Report N^o: 10

Work performed by: Texas Gulf Inc.

Claim N ^o	Hole N ^o	Footage	Date	Note
S. 292222	B-1	352' ✓	Feb/71	(1)
	B-2	438' ✓	Feb/71	(2)
S. 292223	B-3	215' ✓	Feb/71	(2)

1005

Notes:

- (1) #82/71
- (2) #92/72

D. D. HOLE No. B-1

Loc. Benneweis Twp. Dip collar : -45° Bearing collar : 225° Length : 352'

East Grial 352' -44° : : Collar el. : :

Line 0; 2+10E : : Bottom el. : :

Drilled by: Brad. Bros. Core size: 1 1/2" Begun: Feb. 7/71 Ended: Feb. 9/71 Logged by: P. L. M.

Samples	Footage drilled			Geology
	From	To	Len.	
xxxx	0	12.0	12.0	Overburden
	12.0	112.0	100.0	<u>GABBRO Type I</u> : grey with white to pale greenish (epidotized) feldspars. Average grain size ~ 1 mm, remarkably uniform. Texture weakly sub-ophitic. Occas. blotches epidotized feldspar (pale greenish white) up to 10 mm (0.4") in diameter. Maximum of 2% finely disseminated sulphides (po, trace cp). Moderately but uniformly magnetic due to fine dissem. magnetite. Very scarce serpentized slip planes at 30° to 40° to the core axis.
				13.4-13.7 Very fine grained dark grey-green rock (Inclusion of andesite?). Contacts essentially perpendicular to core axis.
				60.0-65.0 Typical gabbro. Assay for Cu, Ni
				74.0 Grain size slowly decreases from about this point.
				95.0 Grain size now about 0.5 mm. Rock slightly paler in colour - more felsic.
				110.0-112.0 Rock has become nearly aphanitic
				112.0 Gabbro (Type I) distinctly chilled against next unit (Gabbro Type II). Contact at 50° to core axis.
	112.0	116.0	54.0	<u>GABBRO Type II</u> : blotchy, dark greenish grey to greenish white. Average grain size varies from 12 mm. (1/2") to 0.5 mm within a few inches. Local patches with sub-ophitic texture, others with stubby pale greenish (epidotized) to off-white feldspars in a groundmass of pyroxenes. Local irregular blotches feldspar (glomero-porphyrific?) and streaks

D. D. HOLE No. B-1

Loc. Benneweis Twp. Dip collar : Bearing collar : Length :

Collar el. :

Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled			Geology
	From	To	Len.	
xxxx				of feldspar. Local quartz-carbonate veinlets, ser-pentinized joints and slip planes. Scattered grains of po (about 1%), traces cp. Minor magnetite locally.
				133.5-138.0 About 30% white quartz-carbonate veinlets. Attitudes somewhat variable but generally about 50° to 60° to core axis.
				150.0-155.0 Mainly typical gabbro. Assay for Cu, Ni.
				152.5-152.7 Aphanitic, cherty-looking pale grey rock (inclusion of silicic volcanic?). Minor cubic py. Upper contact 60° to core axis. Lower uncertain (ground).
	166.0	168.2	2.2	<u>SILICIC VOLCANIC (?)</u> Aphanitic, almost cherty, pale grey. Local cubes py, some py on joints (py very minor). Both contacts at 60° to core axis. Very narrow (1 or 2 mm) chill zone or reaction rim with gabbro.
	168.2	203.8	35.6	<u>GABBRO Type II</u> as previously described (112.0-166.0)
	203.8	204.8	1.0	<u>GRANITIC ROCK</u> pale pinkish grey, medium grained, micas altered to clay minerals. Contacts irregular.
	204.8	224.9	20.1	<u>GABBRO Type II</u> (as 112.0-166.0)
				214.5-216.3 } Fine-grained greenish grey andesite (in-
				221.8-222.4 } clusions) or fine-grained gabbro. Contacts
				214.5' 65°; 216.3' 40°; 221.8' 45°, 222.4' 40° (all to core axis),
	224.9	226.0	1.1	Andesite (?) or chilled facies of Gabbro Type II. Fine grained, greenish grey, equigranular, massive.
	226.0	276.5	50.5	<u>SILICIC VOLCANIC or PYROCLASTIC.</u> Pale grey, crowded with blue quartz "eyes" about 5 mm. in diameter (phenocrysts?) Possibly a few feldspar megacrysts

Aug 25 1971

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D. D. HOLE No. B-1

Loc. Benneweis Twp. Dip collar : Bearing collar : Length :
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled			Geology
	From	To	Len.	
xxxx				(white patches). Moderate schistosity (and flattening of quartz eyes) at 25° to 30° to core axis. Sulphides extremely rare - one minute grain every 5 or 10 feet.
				260.6-276.5 Highly schistose zone (shear zone?) Blue quartz eyes recognizable locally. Schistosity varies from 30° to core axis to (locally) parallel to axis.
	276.5	288.0	11.5	ANDESITE (?) Fine grained, greenish grey, massive. Several "bull" white quartz veins. Largest about 1' (279.0-280.0) long. Contacts irregular. Trace py, p
	288.0	293.8	5.8	SILICIC VOLCANIC or PYROCLASTIC (as 226.0-276.5). Sch. quartz eyes at 35° to core axis.
	293.8	295.2	1.4	GABBRO Type I as previously described (12.0-112.0) except probably no more than 1% po, trace cp. Aphanitic to about 294.5, gradually increases in coarseness to about 0.5 mm at 295.2.
	295.2	296.3	1.1	SILICIC VOLCANIC or PYROCLASTIC. "Quartz eye" type as 226.0-276.5. Upper contact at 25°, lower highly irregular but about 10°. Schistosity parallels contacts near them.
	296.3	352.0	55.7	GABBRO Type I (as previously described). Grain size about 0.5 mm.
				302.0-302.7 } Inclusions silicic volcanic(?). Aphanitic
				304.3-304.8 } cherty-looking type. Pale grey. Contacts at 302.7 35°; at 304.3 80°, at 304.8 60°.
				315.0 Grain size of gabbro has increased to about 1.0 mm.
				352.0 END OF HOLE

AUG 25 1961

[Handwritten Signature]

D. D. Hole No. B-1

D. D. HOLE No. B-2

Loc. Benneweis Twp. Dip collar : -45° Bearing collar : 90° Length : 438'

S 292222 430' -43° Collar el. :

Line 6 South; 0+50E Bottom el. :

Drilled by: Brad. Bros. Core size: Begun: Feb. 10/71 Ended: Feb. 11/71 Logged by: P. I. M.

Samples	Footage drilled			Geology
	From	To	Len.	
xxxx	0	16.0	16.0	Overburden
	16.0	126.3	110.3	<u>GABBRO Type II</u> dark greenish grey, highly variable in texture, grain size (12 mm to 0.5 mm within a few inches). Partly equigranular, partly porphyritic to glomero-porphyritic. Some sections distinctly subophitic. Minor disseminated po (generally no more than 1%), lesser cp. Disseminated magnetite locally abundant. Local quartz, carbonate stringers. Some epidotization of feldspars.
				16-33 Mainly fine-grained
				33.0-43.3 Mainly coarse-grained with local very coarse (10 mm, 1/2") magnetite. Better than average cp in last 5 feet.
				38.0-43.0 Assay for Cu, Ni.
				43.3-71.5 Almost uniformly fine-grained.
				71.5-107.0 Grain size highly variable. Locally porphyritic. All textural varieties gradational to each other.
				107.0-126.3 Mainly coarse-grained.
				121.0-126.0 Higher than average po (~2%), magnetite. Assay for Cu, Ni.
	126.3	136.8	10.5	<u>ANDESITE(?)</u> Fine grained to aphanitic, dark greenish grey. Trace py, po. Lower contact at 55° to core axis. Reaction rim 3 mm. wide of dark green fine-grained rock at lower contact.
	136.8	358.2	221.4	<u>GABBRO Type II.</u> As previously described (16.0-126.3)
				136.8-142.5 Mainly coarse-grained.
				142.5-171.5 Mainly fine-grained but local coarse-grained sections.

SUBBURY
Mining Div.
RECEIVED
AUG 17 1972
A.M. P.M.
 7,8,9,10,11,12,1,2,3,4,5,6

D. Hole No. B-2

92/72 Benneweis
Miner Gulf Inc.

Loc. Benneweis Twp. Dip collar : Bearing collar : Length :
 : Collar el. :
 : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled			Geology
	From	To	Len.	
xxxx				154.0-159.0 Better than average sulphides (~2% po). Assay for Cu, Ni.
				171.5-197.5 Texture and grain size highly variable.
				197.5-205.5 Almost uniformly fine-grained.
				205.5-270.0 Texture, grain size highly variable.
				250.0-255.0 About 2% po. Assay for Cu, Ni.
				270.0-311.0 Mainly coarse-grained to very coarse grained. Patches almost pegmatitic.
3506				272.0-277.0 Higher than average po, cp. Assay for Cu, Ni.
				311.0-358.2 Mainly coarse grained but local fine- grained patches.
	358.2	438.0	79.8	<u>GABBRO Type I</u> Grey to greenish grey with white to pale greenish (epidotized) feldspars. Texture weakly sub-ophitic. Occasional blotches epidotized feldspar up to 12 mm (1/2") in diameter. Minor dissem. po, trace cp. Moderately but uniformly magnetic due to fine grained disseminated magnetite. Aphanitic (chilled) at contact, which is at 30°; to core axis. Grain size about 0.5 mm at 361.0'; increases to 1.0 mm by about 382.0', remains uniformly 1.0 mm to end of hole.
				END OF HOLE

SUDBURY
 MINE DIV.
RECEIVED
AUG 17 1972
 A.M. P.M.
 7, 8, 9, 10, 11, 12, 1, 2, 3, 4, 5, 6

D. S. [Signature]

D. D. HOLE No. B-3

Loc. Benneweis Twp. Dip collar : -45° Bearing collar : 45° Length : 215'
East Grid. 529223 : : : Collar el. : : :
0+40 S; 0+40W : : : Bottom el. : : :
 Drilled by: Brad. Bros. Core size: Begun: Feb. 12/71 Ended: Feb. 15/71 Logged by: P.L.M.

Samples	Footage drilled			Geology
	From	To	Len.	
xxxx	0	12.0	12.0	Overburden
	12.0	40.3	28.3	<u>GRANITOID ROCK</u> pale to dark grey, medium grained. Content mafic minerals highly variable (colour index 5 to 30). Mafics biotite, chlorite, hornblende(?). High content greyish quartz, local development blue qtz. "eyes". Weak foliation at about 70° to core axis. Local trace disseminated py. Appears to be a deformed plutonic rock of granitic to granodioritic composition. Probably intrusive into next rock type.
	40.3	77.5	37.2	<u>GABBRO Type II</u> Contact with granitoid rock at 50° to core axis. Dark greenish grey, mainly fine-grained but local coarse or medium grained zones with gradational boundaries. Partly equigranular, partly porphyritic, generally weakly blotchy, locally (only) sub-ophitic. Very minor disseminated po, cp. Minor magnetite locally. Occasional quartz, carbonate veinlets with highly variable orientations. 41.0-46.0 Better than average sulphides. Assay for Cu, Ni. 44.0-44.3 Partly "GRANITOID ROCK" dykes(?). Contacts highly irregular. 49.5-55.2 Several small inclusions of fine-grained greenish grey andesite(?) Local development of blue quartz "eyes". Local coarse blotchy texture. 55.2-67.0 Mainly very fine-grained to aphanitic, local coarser sections. Resembles andesite but grades into coarser rock.

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 AUG 17 1972
 7,8,9,10,11,12,13,15,16

D. D. HOLE No. B-3

Loc. Benneweis Twp. Dip collar : Bearing collar : Length :
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

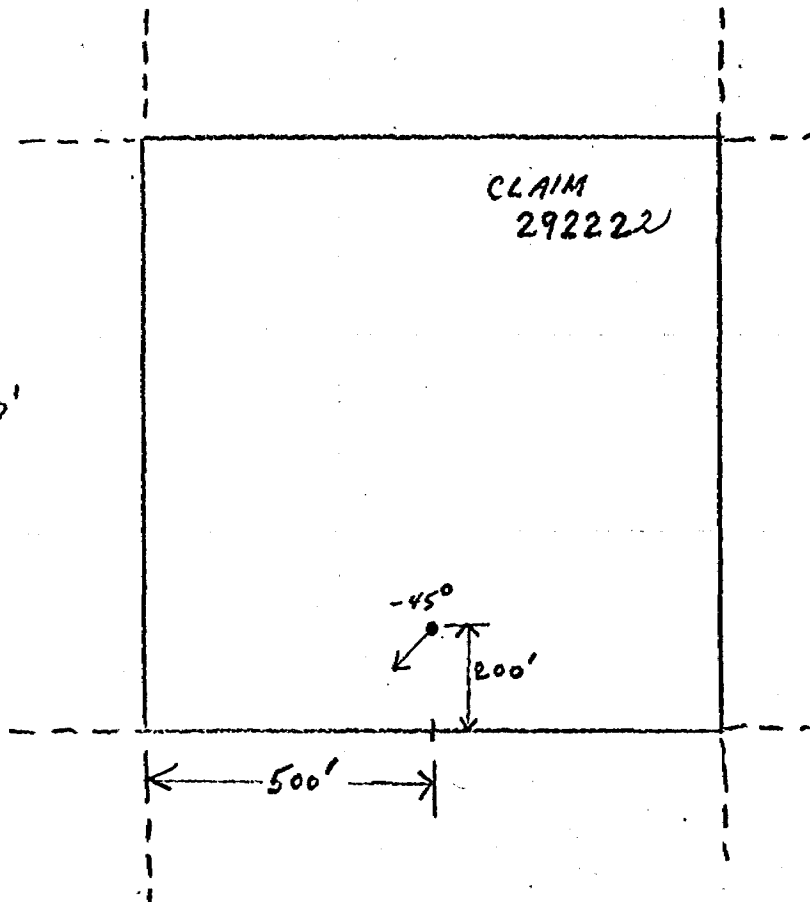
Samples	Footage drilled			Geology
	From	To	Len.	
xxxx				69.0-71.0 Local development blotchy, glomero-porphyr- itic texture due to clumps of coarse feldspar phenocrysts.
	77.5	79.5	2.0	<u>ARGILLITE(?)</u> ; <u>BASALT(?)</u> Aphanitic, black, massive, soft. Could be thoroughly chloritized meta-basalt or an argillaceous sedimentary rock. Occurs as inclusion in gabbro. Contacts at 50° (upper) and 70° (lower) to core axis. Trace disseminated py.
	79.5	215.0	135.5	<u>GABBRO Type II</u> as previously described (40.3-77.5) but not as commonly fine-grained. Local patches of "GRANITOID ROCK" with highly irregular contacts and local development of blue quartz "eyes" in gabbro (metasomatic?). Minor disseminated po, lesser cp. Local magnetite.
				84.0-89.0 Local coarse grains (to 10 mm) cp, po. Assay for Cu, Ni.
				91.0-94.0 Uniformly coarse grained.
				94.0-103.0 Grain size highly variable.
				94.0-99.0
3510				99.0-106.0 } Much better than average sulphides (2% cp?) Assay for Cu, Ni.
				106.0-110.0 }
				103.0-140.0 Uniformly coarse-grained, locally glomero- porphyritic. Local blue quartz eyes.
				140.0-175.0 Mainly medium grained, local fine and coarse grained patches.
				175.0-195.5 Mainly fine-grained. Local coarse-grained zones.
				195.5-204.0 Mainly coarse to medium grained.
				204.0-215.0 Mainly fine grained.
				END OF HOLE

SUPPLY
RECEIVED
AUG 17 1972
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D. D. Hole No. B-3

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4
N
scale 1" to 400'



DDH # B-1
BENNEWIS TWP

FEB 1991

82/71 Bennewis Twp
Texas Gull Sulphur.