

DIAMOND DRILLING



52B10SE0120 37 BURCHELL LAKE

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AREA: BURCHELL LAKE

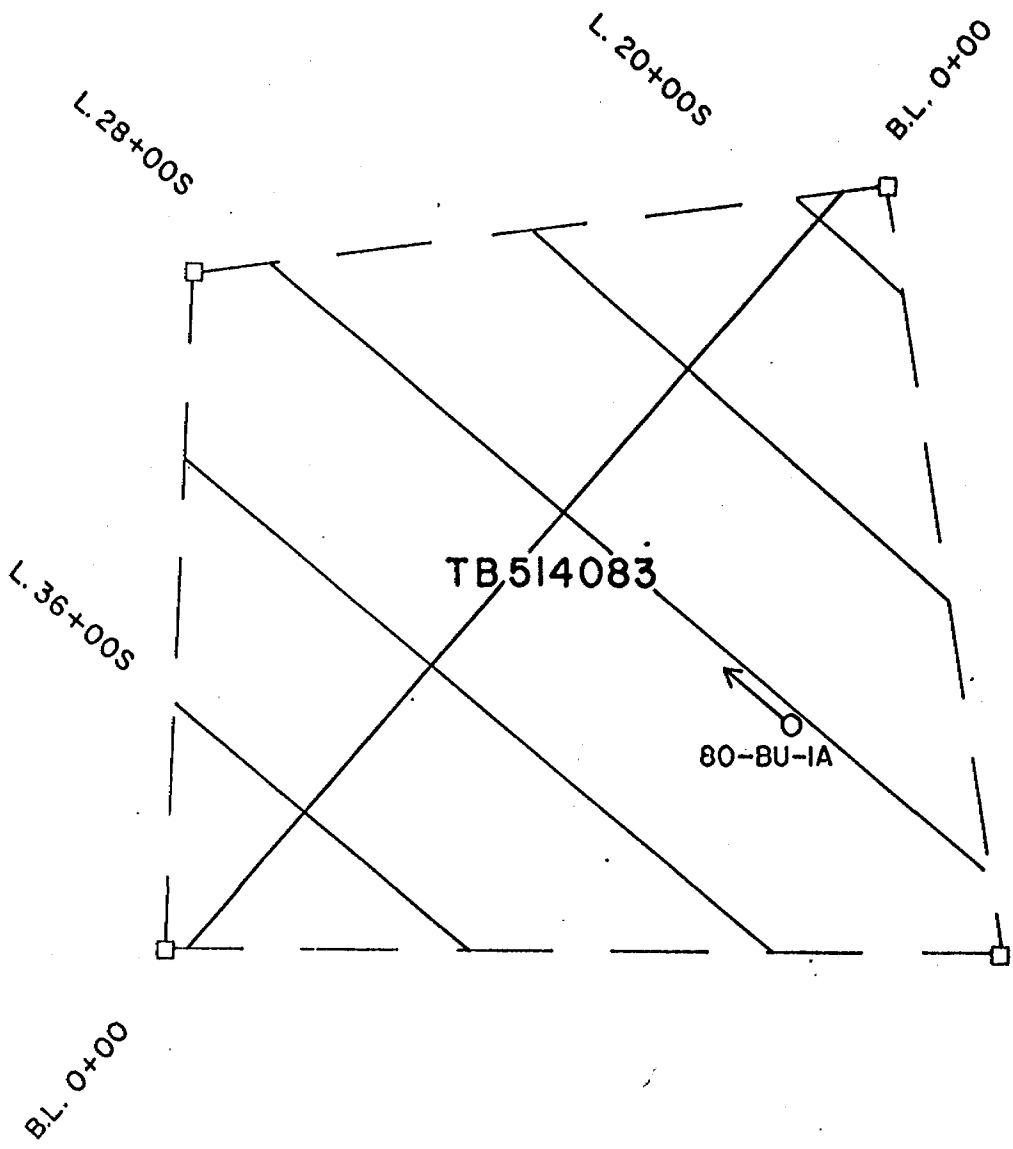
REPORT No.: 37

WORK PERFORMED BY: GULF MINERALS LIMITED

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
TB 514083	80-BU-1A	866.0	Oct./80	(1)
	80-BU-2B	752.0	Oct/80	(2)

1628'

NOTES: (1) #208-80  
(2) #14-81



Gulf Minerals Canada Limited			
BURCHELL PROJECT D.D.H LOCATION BEFORE OPTION ONTARIO			
DATE:	SCALE:	DRAWN BY:	
DEC. 1980	1:4800		

PROJECT BURCHELL HOLE 80-BU-1A

LOCATION Burchell Lake CLAIM TB 514083 CORE SIZE BQ TESTS 250' - 60°

LATITUDE L 28+22S AZIMUTH 310° STARTED Oct 2/80 450' - 61°

DEPARTURE 6+33 E DIP -60° COMPLETED Oct 12/80 650' - 58°

ELEVATION \_\_\_\_\_ DEPTH 866 feet LOGGED BY E.R. Solonyka 850' - 53°

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.
0	240	Boulders, sand				
240	4335	Gabbro				
		Medium green, medium grained, massive,				
		occasional quartz, calcite, epidote or chlorite filled				
		fractures and veinlets. Trace pyrite				
		240-257 8 ft. ground core				
		340-345 blocky, several gray quartz veins with				
		minor feldspar 3" wide, pink feldspar in				
		gabbro near contacts. Some places rich in				
		in course grained biotite				
		370-374 finergrained, darker green, chlorite rich,				
		slightly foliated, 1/2" pink feldspar vein				
		@ 374'				
		400-401 slightly sheared				
4335	451.5	Rhyolite & Chert				
		Dark grey, fine grained, with 1-3% disseminated pyrite				
		throughout, few quartz veinlets				
		455.5-438.0 predominantly dark grey chert, 1-3%				
		pyrite, occasional narrow (< 1/2")				
		magnetite band				



FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.	Cuppm	Znppm	Nippm	Auppb	Agppm
499	558.5	Andesite									
		Whitish green, medium grained with greenish amphibole concentrations. Minor epidote and chlorite filled fractures. Minor pyrite									
		503 1" band of 70% pyrite									
		514-515 finer grained zone									
		523-530.5 finer grained, foliated, some feldspar phenocrysts, epidote filled fractures <1% pyrite									
		530.5-531 Dacite or Rhyolite, dark gray massive									
		531-533 Dacite and Andesite 5% pyrite, 10% magnetite, 1% pyrrhotite	E4014	531	533	2.0	1100	31	3	48	1.0
		533-558.5 both fined grained and courser grained similar to beginning of zone. Foliation more predominant near lower contact. Trace magnetite									
		555.5-558.5 more siliceous, gradational contact, 1-3% pyrite C.A. 556.5' - 30°									
		558.5 1/2" zone of pyrite and chlorite									
558.5	581.6	Rhyolite									
		Fine grained, light gray, slightly foliated, somewhat sericitic. Trace pyrite C.A. 564'-25°									
		566 1 1/2" band of 50% pyrite, 35% magnetite, 15% chlorite and 1% chalcopyrite	E4016	566	567.5	1.5	3000	31	68	350	2.0

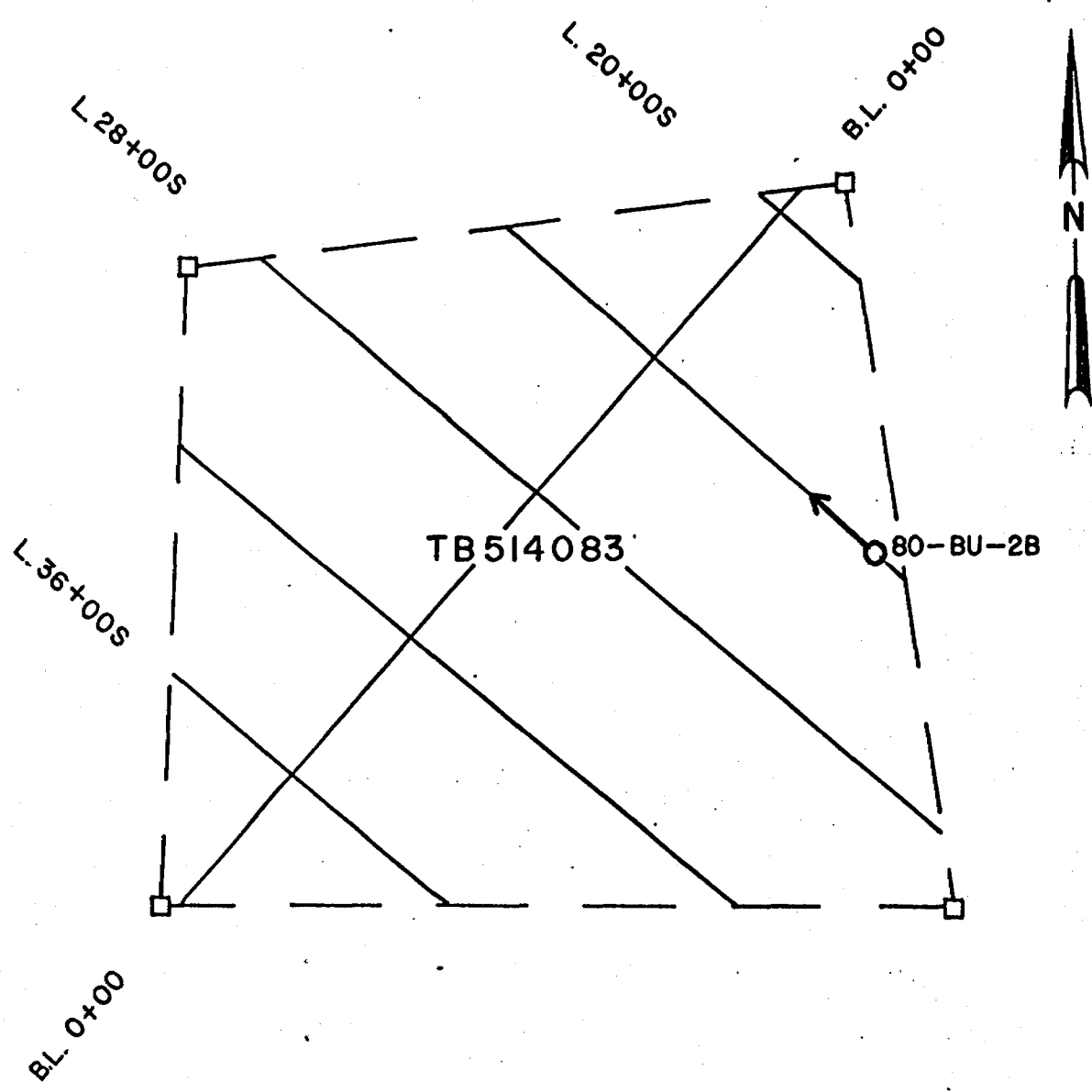
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.	Cupppm	Znppm	Nippm	Auppb	Agppm
		567.5 several thin magnetite and chlorite layers, minor pyrite									
		573 1/2" chlorite and pyrite zone									
		573-581.6 more massive, some hematite staining and chlorite along foliation C.A. 580-35°									
581.6	599	Andesite									
		Dark green, fine grained, chloritic, 3-5% pyrite									
		583.5-585 more siliceous									
		585-592 well foliated, broken core, very chloritic 5% pyrite, slightly magnetic									
		591 6" shear zone									
		592-597.5 Dacite feldspar porphyry as before, well foliated 3-5% pyrite, C.A. 595' - 30°									
		597.5-599 Andesite and chert, 5% pyrite, well foliated, broken core									
599	615	Rhyolite									
		Yellowish-white, well foliated, "sericite schist", few thin chlorite bands, trace pyrite, C.A. 606-25°									
615	627.3	Andesite Tuff									
		615-616.5 gradational contact with upper unit									
		6.6.5-627.3 dark bluish green andesite tuff interlayered with chert, 5% pyrite									
		622.5-627.3 15% pyrite as stringers parallel to foliation C.A. 625'-40°, 626.8-627.3 50% pyrite	E4022	622.5	627.3	4.8	970	100	160	54	<0.5











Gulf Minerals Canada Limited

BURCHELL PROJECT  
D.D.H. LOCATION  
BEFORE OPTION  
ONTARIO

DATE: JAN. 1981	SCALE: 1:4800	DRAWN BY:	
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## Gulf Minerals Canada Limited

PROJECT Burchell HOLE 80-BU-2B  
 LOCATION Burchell Lake CLAIM 514083 CORE SIZE BQ TESTS 255' - 62°  
 LATITUDE L24+00S AZIMUTH 310° STARTED October 27, 1980 454' - 58°  
 DEPARTURE 6+75E DIP -60° COMPLETED November 6, 1980 751.5' - 53°  
 ELEVATION \_\_\_\_\_ DEPTH 752 feet LOGGED BY E.R. Solonyka, P. Barron

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.
0	242	Boulders, sand, gravel				
242	265	Gabbro Medium green, medium grained, massive with occasional epidote, calcite and quartz veinlets. 246-253 Broken up core 256-264 More abundant veinlets of chlorite and calcite and occasional patches of pink feldspar becoming more pronounced nearing contact. Trace disseminated pyrite.				
265	275	Basalt Light to medium green, fine grained, highly sheared and chloritic in places (friable) 265-268 Sheared and brecciated with pyrite as anhedral blebs throughout and as stringers within matrix. 265-270 Up to 10% pyrite 270-275 Sheared and brecciated with pyrite 1-3%				
275	281.5	Dacite Dark grey, fine grained with 1-2% disseminated pyrite				

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.			
		throughout, occasional cherty band							
		280.6-281.9 Basalt-sheared, light green, chloritic with 3% py as stringers throughout							
281.9	294.3	Feldspar Porphyry							
		Light grey, fine to medium grained with abundant feldspar phenocrysts; disseminated pyrite 1-3%, occasional quartz eye							
		C.A. 294.3 35°							
		281.9-287.5 Medium grained							
		287.5-294.3 Fine grained, dark grey							
		291.5-292.5 20% pyrite							
		294.3 abrupt contact with underlying basalt; narrow band (0.5-1.0 cm) of massive pyrite							
204.3	297.5	Basalt							
		Fine-grained, dark green, chloritic, fractured and sheared in places with pyrite in fractures and as stringers (parallel to foliation?) up to 25%, minor pyrrhotite (1%)							
297.5	314	Feldspar Porphyry							
		Light to medium grey, fine to medium grained, abundant white feldspar phenocrysts, disseminated pyrite 1-3%							
		297.5-301 Foliated (?) with pyrite along foliations							
		301-312 Medium grained, more porphyritic, massive							
		312-313.2 Fine grained, mafic, abrupt contact (upper)							
		313.2-314 As above in 301-312							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.			
314	322	Basalt							
		Fine grained, medium green, brecciated in places with pyrite stringers (20%) and disseminated pyrrhotite (5%) and trace chalcopyrite (less than 1%)							
		C.A. 314-322 -20°							
322	333.5	Feldspar Porphyry							
		Dark grey, fine grained with abundant white feldspar phenocrysts; slight foliation, pyrite 1-3%; minor quartz veinlets							
		C.A. 322 -45°							
333.5	361	Basalt							
		Light to medium green, fine grained, locally brecciated and pale green, chloritic							
		. 333.5-341 Pyrrhotite stringers in matrix and disseminated throughout (15%) together with disseminated pyrite (5%) and chalcopyrite (less than 1%), very chloritic and brecciated.							
		341-343.6 Coarse fragmented breccia, altered fragments to pale green-whitish colour, chloritic matrix, pyrite 1-3% as matrix filler							
		343.6-349 Foliated, locally brecciated, pyrite 1-3%, locally up to 5%-10%							
		349-361 Apple green (bleached?), locally brecciated; minor calcite veinlets, pyrite 1-3%, locally							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.
		5-10% parallel to foliation				
361	396.2	Feldspar Porphyry				
		Light to dark grey, medium to coarse grained, massive to slightly foliated with white feldspar phenocrysts, occasional quartz eye 1-3% pyrite				
		C.A. 361 -40°				
		361-362.5 Dark grey, slight foliation				
		362.5-370 Light grey, foliated siliceous (dacitic)				
		370-379 Medium grey, medium grained				
		379-384.5 Fine grained with minor chloritic stringers				
		384.5-391.25 Coarse grained, more porphyritic and siliceous				
		C.A. 391.5 -40°				
		391.25-396.3 As above in 384.5-391.25 with more abundant siliceous, foliated sections towards lower contact				
396.3	405	Dacite				
		Dark grey, fine grained, foliated, chloritic in part with minor cherty sections, 1-3% pyrite				
		398-401 5-10% pyrite				
405	420.6	Basalt				
		Fine to medium grained, medium green locally altered to very chloritic green, minor cherty sections, massive to slightly foliated				

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.			
		405-412 Cherty bands (1-2 cm)							
		406-408 5-10% pyrrhotite, 1-3% pyrite							
		412-419 Medium grained, medium grey, massive; fractured with calcite infill, 5% pyrite							
		419.6-420.6 Foliated, chloritic with subhedral pyrite grains, 10% pyrite, 3% pyrrhotite							
420.6	463.0	Feldspar Porphyry Light grey, medium grained with white feldspar phenocrysts occasional epidote and calcite veinlets and quartz eyes. Dominately massive, pyrite 1%							
		446-456 Finer grained, foliated phenocrysts less abundant, minor chlorite stringers							
		C.A. 453 -40°							
		457.5-463 Darker grey, foliated chloritic bands (1 cm) carry 50% pyrite							
463	492	Andesite Greyish green, fine grained, foliated with minor chlorite, epidote and calcite veinlets. Phenocrysts as in feldspar porphyry throughout. Pyrite (less than 1%) as dissemi- nations and as thin massive stringers (0.5 cm) parallel to foliation C.A. 463-492 -30° -40°							
492	510	Feldspar Porphyry Light grey, fine grained with white and pink feldspar phenocrysts aligned parallel to foliation. Occasional							

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.			
		med. grained-coarse grained sections. Minor pyrite stringers (0.2-0.5 cm) parallel to foliation and disseminated pyrite (1%)							
		C.A. 492 -45°							
		505.5-509 Finer grained, more foliated zone							
		Thin (1 cm) pyrite stringers							
		C.A. 507 -30°							
		509-511 Light pink colour; pyrite as pods, stringers							
		1%							
		C.A. 509 -30° -40°							
		511-512 White, brecciated, carbonitized, chloritic contact with underlying basalt							
512	516	Basalt							
		Medium green, fine grained, foliated with occasional calcite veinlet; pyrite disseminated and as thin bands (0.5 cm) 513 -40°							
		C.A. 513 -40°							
		515-516 Medium grained, massive - lower chilled contact with abundant feldspar, quartz and epidote veinlets (small dike?)							
516	527	Feldspar Porphyry							
		Light grey-green, fine grained, foliated with white and pink feldspar phenocrysts. Pyrite bands (0.2-0.5 cm) parallel to foliation							
		C.A. 516 -45°							



FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.
		522-523.5 Basal fine grained, black, foliated with pyrite bands (0.5 cm) parallel to foliation C.A. 522.5 -30°				
527	533	Basalt Fine grained, medium green, chloritic, foliated. Pyrite as thin bands (1 cm) parallel to foliation - 10% altered to pale green in sections with calcite filled fractures C.A. 533 -15°				
533	543	Feldspar Porphyry Light to medium grey, fine grained matrix with white feldspar phenocrysts. Minor chloritic bands and calcite veinlets 533-537 Slightly foliated, pyrite 1-2% 537-541 Pinkish-grey colour 541-543 As above in 533-537				
543	587	Basalt Medium green, fine grained, massive, commonly altered and brecciated. Locally bleached and very chloritic. Pyrite as stringers and patches within matrix (15-20%) together with pyrrhotite (5-10%) 546-548 Abundant calcite filled fractures - broken up core 555-556.3 Highly chloritic, carbonatized 556.3-557 Dark grey, medium grained with dark green phenocrysts (dike?)				



FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	INT.			
	608.5	Dark green, fine grained, massive, locally cut by calcite and chlorite veinlets (1-2 cm wide). Finely disseminated magnetite (5-10%) and pyrite (1-2%); altered sections with pinkish mottling (622-627')							
	627-636	Feldspar porphyry - dark with pinkish-white anhedral phenocrysts in a fine grained massive matrix							
	636-647.5	Basalt highly altered with numerous calcite and epidote veinlets; pinkish mottling, chloritic bands with pyrite 3-5% and magnetite 5%							
	647.5-654.5	Feldspar porphyry - as above in 627-636'							
	654.5-664.0	Basalt - highly altered as in 636-647.5							
	657.7-658.7	Foliated basalt with 25% magnetite							
	658.7-664.0	50% pinkish mottling							
	664-727	Darker green, medium grained, locally altered and fractured, Pyrite 1-3% magnetite 1-3%							
	683-684.3	35% pyrite, 5% pyrrhotite, 1% chalcopryite							
	697.8-699.5	15% pyrite, pyrrhotite throughout with thin bands (1-2 cm) of massive recrystallized pyrite							
	713-718	Altered and fractured, numerous carbonate, epidote veinlets 15% magnetite, 5% pyrite, pyrrhotite							

