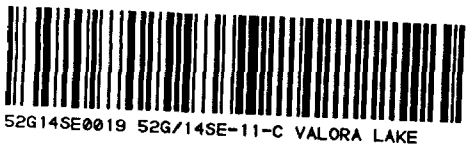

010

DIAMOND DRILLING

Area: VALORA LAKE Report No:

WORK PERFORMED FOR: STEEP ROCK IRON MINES LIMITED

RECORDED HOLDER: SAME AS ABOVE [ ]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
PA 37553	BB- 5	152.7'	MAY / 67	
PA 37555	BB- 6	169.3'	June / 67	
PA 37553	BB- 7	130.6'	June / 67	
PA 37555	BB- 8	164.6'	June / 67	
PA 37555	BB- 9	168.1'	July / 67	
PA 37555	BB- 10	115.10'	July / 67	
PA 37555	BB- 11	140.8'	July / 67	
PA 37560	BB- 12	168.5'	July / 67	
PA 37560	BB- 13	13.4'	July / 67	
PA 37560	BB- 14	170.7'	July / 67	
PA 37560	BB- 15	152.9'	Aug / 67	
PA 37560	BB- 16	15.0'	Aug / 67	
PA 37559	BB- 17	148.3'	Aug / 67	
PA 37560	BB- 18	107.10'	Aug / 67	

Total:- 14 DH 1817 feet

NOTES:

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE #BB-5

LOCATION: Claim Pa.37553
285' South and 30' East of Post No. 4

LATITUDE: 9898N DEPARTURE: 17538E

DIP: Collar vertical AZIMUTH: Vertical Hole DEPTH: 152'

STARTED: May 24, 1967 COMPLETED: May 28, 1967

LOGGED BY: L. B. Staines and S. J. Carryer

FROM	TO	DESCRIPTION
0'	6' 6"	Overburden - Sand and boulders.
6' 6"	14' 10"	Silicified Granite - Blue-grey medium grained quartz rich granitic rock. Contains varying amounts of pyrite comprising less than 1% of rock. Silicification decreases with depth. 7' 7" to 8' 2" narrow (to 1/8") discontinuous streak of MoS_2 parallel to core axis. 12' 2" to 12' 6" - shear zone with chloritic lineations at core angle 50° at 12' 2" tending to 90° at 12' 6".
14' 10"	25' 0"	Quartz-Feldspar Porphyry - Blue-grey fine grained rock with medium grained phenocrysts of quartz (15%) and feldspar (40%). The proportion of quartz decreases with depth. Finely disseminated pyrite is present in minor amounts. 14' 10" - 16' 8" strongly sheared at core angle 35°. Shearing decreases from 16' 7" to 16' 9". 14' 11" - rusty fracture at core angle 30°. 20' 11" - 21' 6" dark schist zone with schistosity and contacts at 40°.
25' 0"	43' 8"	Feldspar Porphyry - Blue-grey fine grained rock with medium grained phenocrysts of feldspar (25%). Minor pyrite is disseminated throughout the rock. Occasional low angle fractures occurring at irregular intervals contain smears of pyrite.
43' 8"	44' 3"	Dark Schist - Black and white banded schistose rock with schistosity at 45°.
44' 3"	44' 6"	Silicified Granite - as 6' 6" to 14' 10" with about 1% pyrite.
44' 6"	45' 6"	Dark Schist - As 43' 8" to 44' 3" with schistosity at core angle 35° to 45°.
45' 6"	73' 4"	Feldspar Porphyry - As 25' 0" to 43' 8". 53' 8" to 60' 2" - well fractured with chlorite and pyrite along fracture faces. At 54' 6" the fractures grade into shearing at core angle about 40°. 65' 8" to 68' 10" - sheared and fractured. 68' 10" - 1/2" fracture containing pyrite chalcopyrite and pyrrhotite. 69' 0" - 1/8" fracture containing pyrite and pyrrhotite. 71' 2" to 71' 5" barren quartz veins.

D.D. HOLE #BB-5 (cont.)

FROM	TO	DESCRIPTION
73' 4"	75' 8"	Silicified Granite - As 6' 6" to 14' 10" with 2% sulphides as pyrrhotite chalcopyrite and pyrite.
75' 8"	90' 3"	Feldspar Porphyry - Similar to 25' 0" to 43' 3" but usually somewhat mottled due to well crystallized phenocrysts of feldspar comprising 40% to 80% of rock. Minor pyrite, pyrrhotite and chalcopyrite. Occasional fractures have pyrite smears on the faces. 85' 2" - 1/2" quartz stringer containing 5% sulphides (pyrrhotite and chalcopyrite). 86' 0" to 86' 3" - silicified shear zone.
90' 3"	106' 6"	Silicified Granite - As 6' 6" to 14' 10" with 1% disseminated sulphides as pyrrhotite with minor pyrite and chalcopyrite. Irregular fractures occurring at intervals are usually chloritized and show pyrite, rarely with pyrrhotite and chalcopyrite, on the fracture faces. 90' 8" to 90' 10" - fine grained granite. 105' 3" to 105' 9" - fine grained quartz diorite with gradational contacts.
106' 6"	110' 0"	Quartz Diorite - Dark grey fine grained siliceous rock with gradational contacts to silicified granite. Contains minor pyrite, pyrrhotite and chalcopyrite disseminated throughout.
110' 0"	110' 6"	Quartz veining - barren.
110' 6"	112' 10"	Dark Schist - a weakly gneissic black and white banded rock with schistosity at variable core angles 0° to 50°.
112' 10"	116' 3"	Silicified Granite - As 6' 6" to 14' 10" well fractured with 1% to 2% sulphides as pyrite and chalcopyrite.
116' 3"	117' 4"	Dark Schist - As 110' 6" to 112' 10". 116' 3" to 116' 5" - quartz feldspar blebs. Upper contact at core angle 50°, lower contact at core angle 80°.
117' 4"	152' 7"	Quartz-Feldspar Porphyry - As 14' 10" to 25' 0" with minor

D.D. HOLE #BB-5 (cont.)

FROM	TO	DESCRIPTION
73' 4"	75' 8"	Silicified Granite - As 6' 6" to 14' 10" with 2% sulphides as pyrrhotite chalcopyrite and pyrite.
75' 8"	90' 3"	Feldspar Porphyry - Similar to 25' 0" to 43' but usually somewhat mottled due to well crystallized phenocrysts of feldspar comprising 40% to 80% of rock. Minor pyrite, pyrrhotite and chalcopyrite. Occasional fractures have pyrite smears on the faces. 85' 2" - 1/2" quartz stringer containing 5% sulphides (pyrrhotite and chalcopyrite). 86' 0" to 86' 3" - silicified shear zone.
90' 3"	106' 6"	Silicified Granite - As 6' 6" to 14' 10" with 1% disseminated sulphides as pyrrhotite with minor pyrite and chalcopyrite. Irregular fractures occurring at intervals are usually chloritized and show pyrite, rarely with pyrrhotite and chalcopyrite, on the fracture faces. 90' 8" to 90' 10" - fine grained granite. 105' 3" to 105' 9" - fine grained quartz diorite with gradational contacts.
106' 6"	110' 0"	Quartz Diorite - Dark grey fine grained siliceous rock with gradational contacts to silicified granite. Contains minor pyrite, pyrrhotite and chalcopyrite disseminated throughout.
110' 0"	110' 6"	Quartz veining - barren.
110' 6"	112' 10"	Dark Schist - a weakly gneissic black and white banded rock with schistosity at variable core angles 0° to 50°.
112' 10"	116' 3"	Silicified Granite - As 6' 6" to 14' 10" well fractured with 1% to 2% sulphides as pyrite and chalcopyrite.
116' 3"	117' 4"	Dark Schist - As 110' 6" to 112' 10". 116' 3" to 116' 5" - quartz feldspar blebs. Upper contact at core angle 50°, lower contact at core angle 30°.
117' 4"	152' 7"	Quartz-Feldspar Porphyry - As 14' 10" to 25' 0" with minor pyrite and pyrrhotite. Occasional fractures have chlorite and pyrite smeared on the faces.
152' 7"		END OF HOLE.

D.D. HOLE #BB-5 (cont.)

Sample	Footage	Cu%	MoS_2%
5536	6' 6" - 14' 10"	0.05	0.020
5537	14' 10" - 25' 0"		
5538	25' 0" - 35' 0"		
5539	35' 0" - 43' 8"		
5540	43' 8" - 45' 6"		
5541	45' 6" - 60' 0"		
5542	60' 0" - 73' 4"		
5543	73' 4" - 75' 8"	0.12	0.003
5544	75' 8" - 90' 3"		
5545	90' 3" - 100' 0"	0.17	0.004
5546	100' 0" - 110' 6"	0.16	0.001
5547	110' 6" - 112' 10"		
	116' 8" - 117' 4"		
5548	112'10" - 116' 3"	0.08	0.006
5549	117' 4" - 131' 0"		
5550	131' 0" - 143' 0"		
5751	143' 0" - 152' 7"		

LBS/SJC/ma

DIAMOND DRILL HOLE LOG

U4

BEIDELMAN BAY

D.D. HOLE BB-6

LOCATION: Claim Pa. 37555
350' South & 55' West of Post #1

LAT: 9831' N

DEP: 17448' E

DIP: Collar -43°

AZIMUTH: 150°

DEPTH: 169'

STARTED: May 30, 1967

COMPLETED: June 5, 1967

LOGGED BY: L. B. Staines and S. J. Carryer

FROM	TO	DESCRIPTION
0'	14' 4"	Overburden - sand and boulders
14' 4"	16' 4"	Silicified Granite - grey-green medium grained rock with coarse grained blue quartz eyes. Less than 1% sulphides with pyrite and minor pyrrhotite. Well fractured at low angles to core length.
16' 4"	17' 2"	Dark Schist - Fine grained black and white weakly banded schistose rock with occasional quartz-feldspar stringers oblique to schistosity. Schistosity at core angle 80°. Strongly chloritised at lower contact. Contact at core angle 90°.
17' 2"	21' 2"	Silicified Granite - As 14' 4" to 16' 4" with 1% sulphides, pyrite and pyrrhotite with minor chalcopyrite. The pyrite is concentrated along fractures which occur at intervals at various angles to core. 19' 3" - 3/8" quartz stringer at core angle 20° with heavy pyrite and chalcopyrite.
21' 2"	23' 2"	Quartz-Feldspar Porphyry - Blue-grey fine grained rock with medium grained phenocrysts of quartz (15%) and feldspar (15%). Contains less than 1% sulphides as disseminated pyrite and pyrrhotite (1:1). 21' 2" - 1" sericitised weak shear at core angle 50°.
23' 2"	57' 8"	Feldspar Porphyry - Grey fine grained rock with medium grained phenocrysts of feldspar (35%) and quartz (10% at 23' 2" grading to 2 to 3% at 33 ft.) Minor pyrite finely disseminated throughout and also as fine to medium grained cubes. Occasional fractures occur 23' 10" to 26' 9" - shear zone at core angle about 50°. 36' 2" to 36' 7" - shear zone at core angle about 45°; some straining of the rock decreasing away from this zone. 48' 2" to 57' 8" - intermittent shear zones at core angle 40° to 90°. 57' 8" contact with parallel shears at 90°.
57' 8"	60' 0"	Silicified Quartz Feldspar Porphyry - Blue-grey fine grained rock with phenocrysts of quartz up to 3/4" long (30%) and medium grained feldspar (15%). The rock is moderately strained across the core axis, and shows evidence of introduction of secondary quartz. Associated with the secondary quartz are sulphides (less than 1%) in the form of pyrrhotite and pyrite (3:1) with minor chalcopyrite.

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D.D. HOLE RB-6 (cont.)

FROM	TO	DESCRIPTION
60' 0"	71' 10"	Silicified Granite as 4' 4" to 16' 4" with 1 to 2% finely disseminated sulphides as pyrite with minor pyrrhotite and chalcopyrite and occasional grains of Molybdenite. Occasional fractures cut the core at various angles and show associated intensification of mineralization. 63' 10" - coarse grained pyrite stringer up to 1/2" wide at core angle 35°. 65' 3" - 1 1/2" dark blue silicified zone with up to 4% sulphides as in rest of rock. 66' 0" to 66' 2" fine grained granite with specks of chlorite. 68' 4" to 68' 6" - zone of increased silicification and mineralization as above. 68' 6" - 1/2" sulphide stringer with pyrite and 10% sphalerite. Increased mineralization to 5% sulphides (pyrite, chalcopyrite and sphalerite) extends from 68' 2" to 70' 2". 70' 8" to 70' 11" - band of non silicified granite.
71' 10"	73' 6"	Dark Schist - as 16' 4" to 17' 2" but with well defined banding within 6" of both contacts. Upper contact at core angle 50°, lower at 75°. Schistosity grades from core angle 50° to core angle 75°.
73' 6"	75' 3"	Feldspar Porphyry - as 23' 2" to 57' 5" but with only occasional quartz eyes. Finely disseminated pyrite constitutes about 1% of rock. 73' 7" to 73' 11" - 3/4" highly fractured quartz vein, barren.
75' 3"	76' 1"	Feldspar Granite - Grey-green fine grained highly siliceous chloritic rock with 1% finely disseminated pyrite.
76' 1"	76' 9"	Dark Schist - as 16' 4" to 17' 2" with less than 1% finely grained cubes of pyrite. Schistosity at core angle 70°. At upper contact 1/2" quartz feldspar stringer.
76' 9"	88' 0"	Feldspar Porphyry - as 23' 2" to 57' 5" with 30% feldspar and 1 - 2% quartz eyes and minor pyrite and pyrrhotite. 77' 9" to 78' 6" - sericititic shear zone with a 1" brecciated fault zone at 77' 11" at core angle 27°. This fault zone contains a quartz-feldspar cement and about 5% pyrite. 78' 6" - 1/2" fault zone as at 77' 11" core angle 47°. 80' 5" to 82' 0" - shear zone at core angle 55°. The rock on either side of this shear shows straining which decreases away from the shear. 87' 11" to 88' 0" - shear zone at 55° which is parallel to contact.
88' 0"	152' 8"	Silicified Granite - as 14' 4" to 16' 4" with weakly porphyritic zones at intervals to 116'. Contains 1 to 3% sulphides as pyrrhotite with chalcopyrite and pyrite. 91' 8" - 2" zone of intense sulphide mineralization to 15%, chalcopyrite and pyrrhotite with minor sphalerite. 75' 3" to 96' 2" - weakly siliceous granitic phase containing 1 to 3% sulphides as before. 97' 10" - 1/2" quartz vein at core angle 55°; contains pyrite and sphalerite with minor chalcopyrite. 97' 10" to 100' 2" - weakly siliceous granitic phase more finely grained than surrounding silicified granite. At about 116' silicified granite becomes more uniform with a decrease in sulphides to 1%, pyrite with pyrrhotite and chalcopyrite. 145' 5" to 152' 8" occasional 1/4" to 1/2" quartz stringers with increased sulphides to 3%

D.D. HOLE BB-6 (cont.)

FROM	TO	DESCRIPTION
152' 8"	153' 8"	Feldspar Granite - as 75' 3" to 76' 1".
153' 8"	156' 4"	Silicified Granite - as 14' 4" to 16' 4" with 2 - 3% sulphides, largely pyrite usually as cubes to 1/8".
156' 4"	162' 5"	Dark Schist - as 16' 4" to 17' 2" but very weakly schistose at core angle 65°. 156' 4" - 1" highly chloritic with irregular quartz blebs. 161' 0" to 161' 7" - siliceous injections of 75% quartz and about 5% sulphides; sulphides mainly pyrite as cubes but with minor disseminated chalcopyrite and pyrrhotite. Lower contact more finely grained than elsewhere and strongly schistose.
162' 5"	167' 3"	Silicified Granite - as 14' 4" to 16' 4" with 1% sulphides as pyrite, pyrrhotite and chalcopyrite. 167' 3" - 1/4" pyrite stringer.
167' 3"	169' 3"	Granite - medium to fine grained grey granite with minor pyrite as cubes. 168' 7" - 1/4" blue quartz stringer at core angle 65° with 1% pyrrhotite.
169' 3"		END OF HOLE.

	FOOTAGE			CU%	MOS_2%	ZN%
5752	14' 4"	-	21' 2"	0.19	0.002	
5753	21' 2"	-	32' 0"	0.10	0.001	
5754	32' 0"	-	45' 0"	0.10	Tr.	
5755	45' 0"	-	57' 8"	0.15	0.001	
5756	57' 8"	-	65' 0"	0.18	0.008	
5757	65' 0"	-	71' 10"	0.25	0.005	Nil
5758	71' 10"	-	76' 9"	0.10	0.005	
5759	76' 9"	-	88' 0"	0.10	0.005	
5760	88' 0"	-	96' 0"	0.28	0.011	Nil
5761	96' 0"	-	104' 0"	0.19	0.016	
5762	104' 0"	-	112' 0"	0.17	0.008	
5763	112' 0"	-	120' 0"	0.20	0.013	
5764	120' 0"	-	129' 0"	0.15	0.010	
5765	129' 0"	-	138' 0"	0.22	0.011	
5766	138' 0"	-	147' 0"	0.22	0.009	
5767	147' 0"	-	156' 4"	0.23	0.007	
5768	156' 4"	-	162' 5"	0.08	0.001	
5769	162' 5"	-	167' 3"	0.23	0.011	
5770	167' 3"	-	169' 3"	0.20 (0.23)	0.008	

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D.D. HOLE BB-6 (cont.)

Weighted composite of samples 5760 to 5767 inclusive and sample 5769

Au Nil Ag Trace.

A 30 element spectrographic analysis of this sample shows the presence of the following minerals:-

Barium	0.1%	Manganese	0.01%
Copper	0.2%	Molybdenum	0.02%
Gallium	0.001%	Titanium	0.1%
Iron	3%	Vanadium	0.01%
Lead	0.01%	Zirconium (ZrO_2)	0.02%

Silver 0.2 oz/ton

SJC/ma

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE #BB-7

LOCATION: Claim No. Pa. 37553
157' south and 80' east of Post No. 4

LATITUDE: 9990N **DEPARTURE:** 17599E

DIP: -40° **AZIMUTH:** 325° **DEPTH:** 130' 6"

STARTED: June 6, 1967 **COMPLETED:** June 9, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	130' 6"	Feldspar Porphyry - medium grey fine grained ground mass with phenocrysts of feldspar up to 3/8" (20% to 40%) and phenocrysts of quartz up to 1/2" (1% to 8%). The rock is mineralized with less than 1% sulphides, mainly pyrite with minor pyrrhotite finely disseminated and in cubes. Occasional fractures ranging from low angles to across core with pyrite smeared on faces. Numerous shear zones occur throughout core:
		From 12' 0" to 12' 1" a shear zone occurs at 80° to core
		From 15' 7" to 15' 8" a shear zone occurs at 70° to core
		From 19' 5" to 20' 10" a shear zone occurs at 70° to core, the ends of which are very fine grained and compact. Two very fine grained feldspar stringers 1/4" and 1/2" occurs at 19' 7" and 19' 9" at 70° to core.
		From 40' 10" to 66' 1" a shear zone occurs from 45° to 70° with a fine grained speckled appearance, with unsheared quartz eyes, and with occasional quartz-feldspar stringer up to 1/2" across core.
		From 67' 5" to 68' 7" a slightly sheared zone occurs at 60° to core
		From 69' 11" to 70' 9" a sheared zone occurs at 60° to core
		From 71' 3" to 73' 3" a shear zone occurs at 60° to core
		From 74' 8" to 75' 1" a shear zone occurs at 60° to core
		From 77' 5" to 80' 3" a shear zone occurs at 60° to core
		From 110' 4" to 117' 6" a shear zone occurs at 60° to core
		At 126' 5" a 1/4" fault zone occurs at 25° to core with stained quartz eyes
		At 126' 8" a 1/4" fault zone occurs at 30° to core with stained quartz eyes
130' 6"		END OF HOLE.
		NOTE: No samples were sent for analysis.

LBS/ma

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-8

LOCATION: Claim Pa. 37555 LAT: 9790N DEP: 17314E
386' South and 185' West of Post #1

DIP: -45° AZIMUTH: 145° DEPTH: 164' 6"

STARTED: June 10, 1967 COMPLETED: June 26, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	27' 11"	Feldspar Porphyry - light to medium grey fine grained groundmass with feldspar phenocrysts up to ¼" (up to 50%) and quartz phenocrysts up to 3/8" (up to 25%). Fairly numerous fractures from 35° to 90° to core length. About 1% sulphides chiefly pyrrhotite with some pyrite disseminated in rock. From 0' - 2' 3" slight shear zone at 35° to core is mineralized with about 1% sulphides chiefly pyrite with minor pyrrhotite. At 0' 8" a 1/8" fault zone at 35° to core is filled with chlorite, feldspar and quartz. At 0' 9" a 1 1/4" barren quartz stringer occurs with obscure contacts. From 11' 2" to 11' 3" a strong shear occurs at 48° to core. At 15' 10" a ¼" shear zone occurs at 35° to core. From 17' 6" to 20' 3" slight shearing at 45° to core. From 20' 3" to 21' 11" a brecciated zone occurs and is mineralized with about 2% sulphides mostly pyrrhotite with some pyrite. From 21' 11" to 24' 0" a strong shear occurs at 72° to core, sparsely mineralized with less than 1% sulphides mostly pyrite disseminated and in cubes.
27' 11"	32' 6"	Dark Schist with fine gneissic banding of feldspar at 55° to core.
32' 6"	34' 1"	Silicified Feldspar Porphyry - fine grained, blue-grey slightly sheared ground mass with about 20% feldspar phenocrysts (distorted) and 10% quartz phenocrysts. The rock is mineralized with about 2% sulphides, mostly pyrite.
34' 1"	34' 9"	Dark Schist - Similar to 27' 11" to 32' 6" with first 3" being feldspar rich. At 34' 7" a 1" irregular, barren quartz bleb occurs roughly parallel to schistosity which varies from 52° to 70° to core.
34' 9"	47' 6"	Silicified Granite - pale bluish-grey rock with some less silicified zones. The rock is mineralized with about 1% sulphides, mostly pyrite giving way to pyrrhotite, and minor chalcopyrite. The mineralization is concentrated along and associated with numerous fractures which occur at varying angles to core. From 37' 8" to 37' 10" a strong shear zone occurs at 50° to core with from 3% to 4% pyrite. From 45' 1" to 45' 10" a fine grained porphyritic zone occurs at 80° to core with about 1 ½% pyrrhotite.

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D.D. HOLE BB-8 (cont.)

FROM	TO	DESCRIPTION
47' 6"	49' 1"	Quartz Feldspar Porphyry - medium grey, fine grained ground mass with quartz phenocrysts up to ½" (25%) and feldspar phenocrysts up to 1/4" (10% to 15%) some shearing and distortion occurs at about 70° to core. Up to 2% sulphides, mainly pyrrhotite with some pyrite and very minor chalcopyrite are disseminated in rock.
49' 1"	78' 7"	Feldspar Porphyry - dark grey fine grained ground mass with phenocrysts of feldspar up to 3/8" (about 30%) and quartz phenocrysts up to 1/4" (up to 3%) and mineralized with less than 1% sulphides. From 54' 0" to 54' 4" a shear zone occurs including a 1/4" quartz stringer parallel to shearing at 65° to core at 54' 1". At 59' 8" a quartz stringer occurs at 25° to core with some coarse pyrrhotite on one contact. From 76' 0" to 78' 7" a strong shear zone occurs at 75° to core.
78' 7"	79' 5"	Quartz Diorite - fine grained, grey green ground mass with irregular quartz "eyes" up to 3/4" (about 30%) with about 2% sulphides - pyrrhotite with some minor pyrite and chalcopyrite. At 78' 7" a 1" quartz feldspar stringer occurs at 50° to core. From 78' 11" to 79' 2" an irregular quartz bleb occurs with about 2% coarse pyrrhotite and minor chalcopyrite in one contact.
79' 5"	89' 6"	Silicified Granite - poorly silicified and porphyritic locally. About 1% sulphides mainly pyrrhotite with minor pyrite and very minor chalcopyrite are disseminated in rock. From 82' 3" to 82' 7" a shear zone occurs at 50° to core. From 86' 1" to 86' 8" a feldspar porphyry inclusion occurs.
89' 6"	110' 8"	Feldspar Porphyry - medium grey fine grained ground mass with feldspar phenocrysts up to 1/4" (up to 50%) and quartz phenocrysts up to 3/8" (1% to 25%) numerous fractures from across to low angles to core upper contact with silicified granite at 30° to core. Mineralized with about 1% sulphides mostly pyrrhotite with some pyrite and the occasional speck of chalcopyrite. At 91' 3" a 3/8" strong shear occurs at 70°. From 94' 8" to 95' 2" a fine grained zone occurs. From 95' 2" to 110' 8" an intermittent shear zone occurs with zones of unsheared porphyry within. Shearing is at 50° to core. At 101' 5" a 2" silicified zone with 1 ½% sulphides same as mentioned above with a little more chalcopyrite occurs at 50°. At 107' 4" a 1/8" intermittent stringer of amssive pyrrhotite with minor chalcopyrite occurs at 45°.
110' 8"	116' 11"	Dark Schist - schistosity from 45° to 55°.
116' 11"	135' 1"	Silicified Granite - poorly silicified from 127' to 131'. About 1% mineral-pyrite mostly for first 2' and then pyrrhotite with some pyrite and very minor chalcopyrite. At 120' 2" a 1½" quartz stringer with 5% massive sulphides - pyrite, pyrrhotite, chalcopyrite and bornite occurs at 45° to core.

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D.D. HOLE BB-8 (cont.)

FROM	TO	DESCRIPTION
135' 1"	135' 8"	Diorite - fine grained upper contact sharp at 70° lower contact irregular. Slightly sheared.
135' 8"	142' 2"	Silicified Granite - poorly silicified with less than 1% mineral mostly pyrrhotite. Quite well fractured.
142' 2"	143' 1"	Dark Schist - very fine grained chloritic with large, up to 1½", irregular quartz-feldspar blebs up to 50% of rock.
143' 1"	151' 2"	Silicified Granite - poorly silicified with less than 1% mineral mostly pyrite with some pyrrhotite. At 143' 9" a 2½" quartz-tourmaline stringer with about 1" coarse pyrite occurs at 55° to core. From 143' 11" to 144' 6" a 5% sulphide zone occurs. The enrichment being 2 irregular discontinuous stringers of pyrite with occasional speck of chalcopyrite at roughly 45°. At 146' 0" a 3/4" quartz stringer with about 2% coarse pyrite and occasional speck of chalcopyrite occurs at 45° to core.
151' 2"	152' 6"	Diorite - fine grained grey-green rock with contacts sharp at 75° to core. Slight shearing is apparent parallel to contacts.
152' 6"	158' 2"	Silicified Granite - light bluish-grey rock with about 1% mineralization mostly pyrite with occasional speck of chalcopyrite. At 152' 7" a 1½" highly fractured quartz stringer with about 3% mineral mostly but some chalcopyrite and speck of MoS_2 at 45° to core. From 155' 3" to 155' 9" a quartz injection occurs barren except for a 1/16" speck of MoS_2.
158' 2"	160' 7"	Sheared quartz Feldspar Porphyry - a medium grey rock with about 2% of the mineral mostly pyrite. Feldspar phenocrysts mostly destroyed by shearing at 75°. At 158' 2" and 159' 3" 1" Dark Schist stringers occur at 75° to core.
160' 7"	162' 6"	Dark Schist - with considerable white feldspar banding. Contact sharp at 70° to core. Schistosity at about 75° to core. From 162' 4" to 163' 0" fine grained with about 2% pyrite cubes. From 163' 0" to 163' 6" pale green-grey coarse grained bleached zone.
164' 6"		END OF HOLE.

SAMPLE NO.	FOOTAGE			FEET	Cu %	MoS_2 %
5771	34' 9"	to	47' 6"	12' 9"	.10	.0025
5772	78' 7"	to	89' 6"	10' 11"	.08	.0010
5773	116' 11"	to	126' 0"	9' 1"	.08	.0014
5774	126' 0"	to	135' 1"	9' 1"	.10	.0018
5775	143' 1"	to	151' 2"	8' 1"	.13	.0030
5776	151' 2"	to	158' 2"	7' 0"	.18	.0065

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-9

LOCATION: Claim Pa. 37555 LAT: 10,024N DEP: 17,194E
182' South and 312' West of Post #1

DIP: -45° AZIMUTH: 179° DEPTH: 168' 1"

STARTED: June 27, 1967 COMPLETED: July 2, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	4' 11"	Casing. Sand and boulders
4' 11"	52' 11"	Silicified Granite - a broad zone of varying silicification, alteration, fracturing and mineralization. From 4' 11" to 7' 0" bluish green zone 40% to 50% quartz with occasional fracture, less than 1% mineralization mainly pyrrhotite. No chalcopyrite observed. From 7' 0" to 13' 3" same as above with about 1% mineralization mostly pyrite with some chalcopyrite and sphalerite. At 13' 3" a 3" zone of heavy sulphides consisting of pyrite, pyrrhotite, sphalerite, chalcopyrite and galena occurs at 30° to core. From 13' 6" to 15' 11" same as from 7' 0" to 13' 3". From 15' 11" to 19' 3" similar to above with about 2% sulphides mostly pyrrhotite with chalcopyrite visible every inch and some sphalerite. From 19' 3" to 24' 7" medium grey less siliceous zone (about 30% quartz) with a fine grained zone from 22' 2" to 23' 4". Less than 1% sulphide: From 24' 7" to 29' 2" bluish grey with up to 50% quartz, about 1½% mineralization mostly pyrite with some chalcopyrite. Shearing at 45° from 26' 4" to 27'. Shearing and distortion at 45° at 29' 0". From 29' 2" to 39' 11" bluish light grey rock up to 75% quartz. About 1% sulphides with zones of up to 3% mostly pyrite with some chalcopyrite, pyrite and sphalerite. Fair sericitization. From 39' 11" to 52' 11" bluish grey-green rock with generally about 40% quartz and about 1% sulphides well serecitized and fractured. From 39' 11" to 42' 3" 1% mineralization, minor chalcopyrite. From 42' 8" to 46' 8" 1½% to 2% mineral mostly pyrite with some chalcopyrite. From 46' 8" to 49' 3" very siliceous. 3½% sulphides - pyrite and chalcopyrite. At 46' 9" a 1/8" stringer of massive pyrite and chalcopyrite at 30° to core. From 49' 3" to 52' 11" highly sericitized less than 1% mineral.
52' 11"	54' 10"	Dark Schist - schistosity generally 80° - locally 60° to core. At 54' 10" a ½" 50% pyrite stringer occurs at 80° to core.

D.D. HOLE BB-9 (cont.)

FROM	TO	DESCRIPTION
54' 10"	62' 6"	Silicified Granite - slightly silicified with about 30% to 40% quartz, about 1½% sulphides, 1:1 and pyrrhotite with some chalcopyrite. At 57' 6" a 3" quartz vein occurs at 50° to core. At 58' 5" a 5" fine grained zone occurs. At 58' 10" a 1½" quartz vein occurs across core. At 59' 4" a 1/4" shear occurs at 65° to core. At 60' 11" a ½" irregular feldspar stringer with a 1/4" schist band on lower contact occurs at 65°. At 61' 5" a 1" chlorite schist band occurs at 80°.
62' 6"	63' 0"	Diorite - light grey fine grained rock with less than ½% pyrite. Lower contact at 75°.
63' 0"	64' 0"	Granite (blue quartz eye) - medium bluish-grey medium grained rock with fair sericite and about 30% bluish "quartz eyes". About 1% mineral mostly pyrrhotite with fair chalcopyrite.
64' 0"	66' 4"	Feldspar Granite - very fine grained well fractured with about 1% sulphides mostly pyrrhotite and some fine grained chalcopyrite.
66' 4"	89' 0"	Silicified Granite - bluish-grey rock with from 30% to 40% quartz. From 66' 4" to 76' 8" 2½% to 3% mineral mostly pyrrhotite with chalcopyrite, magnetite and sphalerite. At 74' 11" a 2" quartz stringer with 5% pyrrhotite and chalcopyrite (massive). From 76' 8" to 83' 11" a 1½% to 2% mineral mostly pyrrhotite with pyrite, chalcopyrite and sphalerite with some magnetite. From 83' 11" to 86' 0" slight pinkish color with about 1% sulphides mostly pyrite. At 84' 2" and 85' 5" a 3" and 1" dark schist stringer at 75° to core. From 86' 0" to 89' 0" about 1% to 2% sulphides mostly pyrrhotite with pyrite, chalcopyrite and (sphalerite).
89' 0"	89' 8"	Dark Schist - schistosity at 80°.
89' 8"	97' 3"	Silicified Granite - weakly silicified - from 30% to 40% quartz. From 89' 8" to 91' 3" medium siliceous with about 1% sulphides mostly pyrite with some pyrrhotite and minor chalcopyrite. From 91' 3" to 93' 3" weakly silicified with 1½% sulphides mostly pyrite with minor pyrrhotite and (chalcopyrite). Highly sericitized. Schistosity from 30° to 45° to core. From 93' 3" to 94' 5" medium siliceous, about 1½% sulphides mostly pyrrhotite with some chalcopyrite and pyrite. From 94' 9" to 97' 3" weakly silicified, strongly sericitized medium blue-grey rock with 1½% sulphides mostly pyrite with minor chalcopyrite At 94' 9" a 1" schist stringer at 80°.
97' 3"	137' 8"	Granite - grey medium grained rock with from 15% to 20% quartz locally up to 30% quartz. Generally less than 1% sulphides with occasional 2" to 3" zones of up to 3% mostly pyrrhotite with considerable pyrite and some chalcopyrite and sphalerite. At 107' 4" a 1/4" chlorite, sphalerite, pyrrhotite and chalcopyrite stringer at 30°. At 124' 0" a 3" dark schist stringer at 30° and 80°.

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D.D. HOLE BB-9 (cont.)

FROM	TO	DESCRIPTION
137' 8"	145' 2"	Silicified Granite - slightly silicified with about 30% to 40% quartz. Generally less than 1% sulphides - pyrrhotite, pyrite and minor chalcopyrite. From 137' 8" to 138' 6" a quartz stringer along core with minor chalcopyrite.
145' 2"	165' 10"	Granite - grey medium grained rock with generally about 1% sulphides pyrrhotite, pyrite, chalcopyrite and sphalerite. Fair magnetite. At 150' 5" a 1" shear zone occurs at 45° with about 5% pyrite and pyrrhotite. From 154' 1" to 154' 9" a ½" quartz stringer with about 5% sulphides as pyrite, pyrrhotite, chalcopyrite and sphalerite occurs at a very low angle. At 162' 10" a 3/4" band of magnetite with pyrrhotite and chalcopyrite occurs at 45° to core.
165' 10"	168' 1"	Dark Schist - schistosity from 30° to 80° with irregular quartz feldspar blebs up to 2".
168' 1"		END OF HOLE.

SAMPLE NO.	FOOTAGE			FEET	Cu%	ZN%	Oz./T Au	Oz./T Ag
5777	7' 0"	to	19' 3"	12' 3"	.09	nil	tr.	nil
5778	19' 3"	to	24' 7"	5' 4"	.07	-	-	-
5779	24' 7"	to	29' 2"	4' 7"	.09	-	-	-
5780	29' 2"	to	39' 11"	10' 9"	.14	nil	nil	nil
5781	39' 11"	to	52' 11"	13' 0"	.14	-	-	-
5782	52' 11"	to	66' 4"	13' 5"	.14	-	-	-
5783	66' 4"	to	76' 8"	10' 4"	.14	nil	tr.	tr.
5784	76' 8"	to	83' 11"	7' 3"	.07	nil	tr.	nil
5785	83' 11"	to	97' 3"	13' 4"	.10	nil	tr.	tr.
5786	97' 3"	to	110' 9"	13' 6"	.12	nil	tr.	tr.
5787	110' 9"	to	124' 3"	13' 6"	.07	-	-	-
5788	124' 3"	to	137' 8"	13' 5"	.10	-	-	-
5789	137' 8"	to	151' 9"	14' 1"	.07	nil	tr.	tr.
5790	151' 9"	to	165' 10"	14' 1"	.07	-	-	-

DIAMOND DRILL LOG

BEIDELMAN BAY

D.D. HOLE BB-10

LOCATION: Claim Pa. 37555 LAT: 10115N DEP: 17190E
310' West and 65' South of #1 Post.

DIP: Collar -45° AZIMUTH: 180° DEPTH: 115' 10"

STARTED: July 2, 1967 COMPLETED: July 7, 1967

LOGGED BY: S. J. Carryer

FROM	TO	DESCRIPTION
0'	9' 6"	Overburden - sand and boulders.
9' 6"	20' 7"	Granite - a grey medium grained granitic rock with minor sulphides disseminated throughout. Zones of weak to moderate secondary silicification, usually carrying about 1% sulphides occur at intervals. The sulphide minerals identified are pyrite, pyrrhotite and minor chalcopyrite with rare grains of sphalerite. Weak jointing is generally present. 15' 8" to 16'11" - mud. The material from this zone suggests that thi is a cleft in the bed rock open to the surface.
20' 7"	21' 6"	Feldspar Granite - A white fine grained rock with disseminated grains of chlorite. Occasional fine grains of pyrite are also present.
21' 6"	42' 10"	Granite - as 9' 6" to 20' 7" 29' 11" - ½" sericitized shear zone at core angle 45°. 30' 7" to 30' 9" - sericitized shear zone at core angle 45°. 40' 0" to 40' 4" - sericitized shear zone with 1 to 2% pyrite. At core angle 25°. 40' 11" to 41' 4" - 1/4" wide feldspar-pyrite (30%) vein, parallel to core. 41' 2" - ½" schist band at core angle 75°. 41' 4" - ½" schist band at core angle 130°. 41' 5" - 1" quartz feldspar vein with minor chalcopyrite and pyrite. 41' 11" to 42' 1" - schist band. 42' 1" to 42' 4" - zone of narrow quartz-feldspar veins. These veins carry minor chalcopyrite and pyrite.
42' 10"	44' 2"	Dark Schist - Black weakly banded with white schistose rock with schistosity at core angle 80°. 42' 10" to 43' 2" - blebs of granite in quartz feldspar vein. 43' 9" - 1/4" feldspar vein.
44' 2"	46' 3"	Granite - A grey medium grained granitic rock with 2% biotite and 2% pyrite. Numerous (2 per inch) chloritic joints cut the rock at a variety of angles.
46' 3"	48' 7"	Dark Schist - as 42' 10" to 44' 2" but strongly banded from 46' 9" to 47' 4" schistosity at core angle 90°. 46' 3" - 1" feldspar vein across core. 48' 6" - ½" diameter feldspar bleb.

D.D. HOLE BB-10 (cont.)

FROM	TO	DESCRIPTION
48' 7"	56' 2"	Granite - A pale blue grey medium grained granitic rock containing ½% pyrrhotite with minor chalcopyrite disseminated throughout and ½% pyrite near contact but pyrite decreases with depth. Rock becomes weakly sericitized near 56'.
56' 2"	80' 2"	Sericitic Granite - Grey granitic rock with texture largely destroyed by the alteration of the feldspars to sericite. This alteration is variable and contacts are gradational. Minor pyrrhotite is disseminated throughout. 57' 8" to 58' 1" - shear zone containing 5% sulphides as pyrrhotite, pyrite and chalcopyrite (2:2:1). 59' 5" to 61' 5" - weakly altered to unaltered zone containing ½% pyrrhotite 66' 6" to 66' 8" - quartz veining with 2% associated sulphides as pyrrhotite chalcopyrite and pyrite. 72' 1" - ½" barren quartz vein. 76' 6" to 77' 0" - 1% pyrite as cubes. 78' 10" - 1/8" pyrite and pyrrhotite stringer (irregular).
80' 2"	94' 8"	Granite - as 48' 7" to 56' 2" with minor pyrite and pyrrhotite disseminated throughout although pyrite with rare grains of sphalerite is concentrated along joints. 89' 8" to 92' 10" - increased sulphide mineralization to 1 - 2%; pyrrhotite and pyrite with minor chalcopyrite were identified. 92' 10" to 94' 8" biotite granite of similar composition as 44' 2" to 46' 3" but with 1% pyrite as medium grained cubes concentrated along chloritized joints.
94' 8"	96' 2"	Dark Schist - black and white gneissic rock banded at core angle 90°. 96' 0" - 1" feldspar vein.
96' 2"	107' 4"	Granite - as 48' 7" to 56' 2" with minor disseminated pyrite, pyrrhotite and chalcopyrite. 96' 2" to 96' 7" - blebs of schist with pyrite grains to 1/4" length. 97' 4" to 97' 9" fine grained chloritic phase with minor pyrite and pyrrhotite. 101' 1" - sulphide stringer containing pyrrhotite and pyrite.
107' 4"	110' 6"	Sericitic Granite - as 56' 2" to 80' 2". 107' 8" - 1/4" sulphide stringer containing pyrrhotite, chalcopyrite and pyrite. 107' 8" to 107' 11" - fine grained grey chloritic rock as 97' 4" to 97' 9". 108' 6" - 1" barren quartz vein. 110' 5" - sulphide stringer containing chalcopyrite and pyrrhotite with quartz eyes.
110' 6"	115' 10"	Granite - as 48' 7" to 56' 2" with zones of sericitization. 1 - 2% pyrrhotite with minor pyrite and chalcopyrite is disseminated throughout. 113' 4" - 1/4" barren quartz vein with sulphide stringer containing chalcopyrite, pyrrhotite and pyrite, cutting it at 30°.
115' 10"		END OF HOLE.

D.D. HOLE BB-10 (cont.)

SAMPLE NO.	FOOTAGE			Cu%
5791	9' 6"	to	19' 6"	0.22
5792	19' 6"	to	27' 6"	0.07
5793	27' 6"	to	35' 6"	0.10
5794	35' 6"	to	41' 6"	0.10
5795	89' 8"	to	92' 10"	0.10
5796	107' 4"	to	115' 10"	0.10

D.D. HOLE BB-10 (cont.)

SAMPLE NO.	FOOTAGE			Cu%
5791	9' 6"	to	19' 6"	0.22
5792	19' 6"	to	27' 6"	0.07
5793	27' 6"	to	35' 6"	0.10
5794	35' 6"	to	41' 6"	0.10
5795	89' 8"	to	92' 10"	0.10
5796	107' 4"	to	115' 10"	0.10

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-11

LOCATION: Claim Pa. 37555 LAT: 9814N DEP: 17199E
305' West and 360' South of Post #1

DIP: -45° AZIMUTH: 359½° LENGTH: 140' 8"

STARTED: July 8, 1967 COMPLETED: July 13, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	2' 3"	Casing - sand and boulders.
2' 3"	29' 6"	Feldspar Porphyry - medium to dark grey fine grained ground mass with feldspar phenocrysts up to 1/4" about 25% to 30% and occasional quartz eye. From 2' 3" to 6' 10" a shear zone occurs at 57° to 60° with occasional chalcopyrite, MoS_2 smear on shear faces. From 6' 10" to 29' 0" about 1% sulphides occur as pyrrhotite, pyrite, chalcopyrite and MoS_2. From 29' 0" to 29' 6" a shear zone occurs, similar to from 2' 3" to 6' 10".
29' 6"	31' 11"	Silicified Granite - weakly silicified about 40% quartz with fairly strong sericite. Less than 1% mineral occurs as pyrrhotite, pyrite occasional specks chalcopyrite and very occasional specks of MoS_2.
31' 11"	87' 2"	Granite - weakly siliceous zones and zones of fairly heavy sericite. An occasional stringer of heavy sulphide mineralization occurs. At 36' 11" a 1" strongly sericitized stringer with about 10% pyrite with occasional specks of sphalerite occurs at 65°. At 40' 9" a 1/4" fault filled with about 10% pyrite, sphalerite and molybdenite occurs at 48° to core. From 44' 7" to 45' 0" a fine grained zone occurs at 52°. At 52' 10" a 1" fine feldspar stringer occurs at 38°. At 58' 11" a 1/8" stringer of sphalerite with a few specks of molybdenite occurs at 55° to core. At 61' 6" a ½" quartz stringer occurs with 5% pyrite at a low angle to core. From 61' 6" to 66' 0" a zone of 2% mineral with numerous irregular quartz stringers and low angle fractures with coarse pyrite and some chalcopyrite (strongly sericitic). From 74' 0" to 75' 5" a feldspar rich zone pale grey and fine grained. From 75' 8" to 76' 5" strongly serictic. From 83' 6" to 84' 3" a ½" fine feldspar stringer along core. From 85' 5" to 86' 0" a chlorite schist stringer occurs with schistosity at 30°.
87' 2"	89' 4"	Feldspar Granite - fine grained pale grey.

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D.D. HOLE BB-11 (cont.)

FROM	TO	DESCRIPTION
89' 4"	123' 7"	Granite - slight pinkish color generally with occasional chlorite-pyrite filled fractures at various angles to core. Generally less than 1% mineral.
123' 7"	124' 10"	Granodiorite - medium-grey medium grained rock. At 124' 8" a ½" quartz stringer at 50°. From 124' 8" to 124' 10" strong shearing at 50° to core.
124' 10"	140' 8"	Granite - generally slight pinkish coloration and less than 1% mineral. At 124' 10" a 1½" quartz stringer occurs at 50° to core with 5% pyrite, chlorite and chalcopyrite. At 125' 10" a 1½" strongly sericitic stringer occurs at 30° to core with 3% pyrite mineralization.
140' 8"		END OF HOLE.

SAMPLE NO.	FROM	TO	FEET	Cu%	MoS_2
5797	2' 3"	15' 4"	13' 1"	.32	.014
5798	15' 4"	29' 6"	14' 2"	.40	.026

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-12

LOCATION: Claim Pa.37560 LAT: 9360N DEP: 15979E
324' West and 410' North of Post #2.

DIP: -31° AZIMUTH: 148° DEPTH: 168' 5"

STARTED: July 14, 1967 COMPLETED: July 19, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	6' 1"	Silicified Granite - well rusted and fractured about 1½% to 2% sulphides as pyrite, pyrrhotite and chalcopyrite. From 0' 3" to 4' 2" lost core.
6' 1"	7' 11"	Chlorite Schist - contacts and schistosity at 70°. From 6' 2" to 7' 2" lost core.
7' 11"	19' 11"	Silicified Granite - pale blue-grey rock about 2% to 2½% fine sulphides as pyrite, pyrrhotite and fair chalcopyrite locally. Zones of highly serecitized granite. From 7' 11" to 8' 5" a quartz tourmaline vein occurs at 60° with minor chalcopyrite. At 9' 2" a 3/8" stringer of quartz occurs at 65°. At 9' 9" a 3" quartz tourmaline stringer occurs at 45° with some chalcopyrite. At 11' 6" a 3" zone of Granodiorite occurs. At 12' 7" a ½" irregular quartz stringer occurs at 45° with some chalcopyrite. From 14' 2" to 14' 9" a zone of Granodiorite occurs. At 18' 0" a ½" fault zone occurs at 55°.
19' 11"	63' 10"	Granite - (Blue quartz eye) bluish-grey rock with predominant blue quartz eyes. From 19' 11" to 30' 3" - 2% mineral-pyrrhotite, pyrite and some chalcopyrite. At 23' 10" and 24' 0" - ½" blue quartz stringers at 45°. From 29' 2" to 30' quartz injected zone. Heavy chalcopyrite at 23' 10". From 30' 3" to 36' 0" - 2% to 2½% sulphides pyrrhotite, pyrite and chalcopyrite. From 30' 5" to 31' 0" quartz veinings, At 80° to core with about 2% chalcopyrite. From 36' 0" to 41' 0" - 2½% to 3% sulphides as pyrrhotite, pyrite and fair chalcopyrite with irregular quartz injections from 36' to 37'. From 41' 0" to 46' 0" - 3½% mineral pyrrhotite, pyrite and chalcopyrite. From 43' 6" to 46' 0" an 8" stringer of chlorite-schist with very good chalcopyrite at low angle to core. From 45' to 46' 0" a heavy sulphide stringer occurs at low angle to core. At 43' 10" a chlorite stringer with 8% pyrite and pyrrhotite and some chalcopyrite occurs at 30° to core.

D.D. HOLE BB-12 (cont.) 46

FROM	TO	DESCRIPTION
		From 46' 0" to 56' 11" - 2½% to 3% mineral as pyrite, pyrrhotite and fair chalcopyrite. At 47' 0" a 3/4" quartz stringer at 75° with 1% chalcopyrite. At 49' 5" a 3/4" quartz chlorite stringer at 50° with heavy pyrite 25% and chalcopyrite 5%. From 52' 1" to 52' 9" sheared zone heavily sericitized at 48°. At 56' 9" a ½" irregular quartz stringer at low angle with 10% pyrite, pyrrhotite and chalcopyrite. From 56' 11" to 63' 10" - 2% to 2½% mineral as pyrite, pyrrhotite and chalcopyrite. From 60' 5" to 60' 11" a quartz (60%) tourmaline (40%) vein occurs across core with 1% pyrite, pyrrhotite and chalcopyrite with a 1½" band of chlorite schist on lower contact.
63' 10"	64' 10"	Granite - medium grained fleshy colored, Contact at 75° to core, lower contact obscure. About 1% mineralized with pyrrhotite, pyrite and some chalcopyrite.
64' 10"	70' 6"	Granite - (blue quartz eye) - blue-grey medium grained rock with about 1½% to 2% sulphides as pyrrhotite, pyrite and chalcopyrite.
70' 6"	74' 10"	Silicified Granite - up to 60% quartz. Lower contact gradational. Upper contact obscured by a 3" chlorite schist band at 65° to core. From 71' 7" to 72' 0" a chlorite schist stringer occurs from 45° to across with irregular quartz-feldspar blebs and stringers about 35%.
74' 10"	85' 6"	Granite (blue quartz eye) - greyish-blue medium grained rock with bluish quartz eyes and irregular patches with about 2% sulphides as pyrrhotite, chalcopyrite and some MoS_2 (at 85' 5"), well fractured, several at low angles to core. At 75' 11" a 3/4" bluish quartz stringer at 25° with accompanying low angle fractures.
85' 6"	87' 11"	Feldspar Granite - contacts gradational. Fine grained honey-grey colored rock with about 1½% to 2% fine sulphides as pyrite, pyrrhotite and chalcopyrite. Occasional fracture with concentrations of sulphides of varying angles to core.
87' 11"	91' 4"	Granite - light grey medium grained rock with from 1½% to 2% mineral as pyrite, pyrrhotite and chalcopyrite.
91' 4"	93' 0"	Granodiorite - medium grained dark grey rock with from 1% to 1½% mineral mostly pyrite, contacts gradational.
93' 0"	99' 0"	Quartz Diorite - dark grey medium to fine grained rock with about 10% quartz and about 2% mineral as pyrite, pyrrhotite and fine chalcopyrite. At 98' 11" a ½" quartz stringer at 60° to core.
99' 0"	135' 9"	Granite (blue quartz eye) - bluish-grey medium grained rock with generally 2½% to 1½% sulphides (decreasing with depth) as pyrite, pyrrhotite and chalcopyrite. At 100' 2" a 1½" stringer of Diorite at 75° to core.

D.D. HOLE BB-12 (cont.)

FROM	TO	DESCRIPTION
		From 103' 5" to 103' 11" an irregular quartz vein from across to low angle with about 2% pyrite, chalcopyrite and pyrrhotite.
		At 107' 0" a 3" irregular quartz chlorite stringer occurs.
		At 107' 6" a 2½" dark schist stringer occurs across core.
		At 112' 5" a 1½" bluish quartz stringer at 50°.
		At 115' 10" a 3/4" quartz stringer occurs at 25° to core.
		At 116' 10" a 2" quartz stringer occurs across core.
		At 118' 4" a 3/4" irregular quartz tromaline stringer occurs.
		From 121' 6" to 122' 1" a medium grained diorite stringer occurs from 80° to 45° with about 3½ to 4% pyrite with some pyrrhotite and chalcopyrite.
		At 128' 10" a 1½" chlorite schist stringer at 45° to core.
		From 130' 10" to 133' quartz feldspar porphyry zone occurs at 50° to core. Contact at 135' 9" is sharp at 45°.
135' 9"	154' 6"	Feldspar Porphyry - dark grey fine grained ground mass with about 20% feldspar phenocrysts. Contact at 154' 6" sharp but irregular across core.
		From 139' 9" to 140' 6" lost core.
		From 144' 0" to 146' 5" lost core.
		At 151' 6" two bluish quartz stringers, 1/4" and 3/4" at 40° to core with some chalcopyrite and pyrrhotite.
154' 6"	163' 4"	Granite (blue quartz eye) - dark grey-blue medium grained rock with 2½% to 3% sulphides as pyrite, pyrrhotite and chalcopyrite.
		At 156' 10" a 1" quartz stringer with about 4% pyrrhotite, pyrite and chalcopyrite.
		From 157' 11" to 158' 5" slightly sheared feldspar porphyry at 50° to core.
		At 159' 6" a 1½" bluish quartz stringer at 60° with some chalcopyrite, pyrrhotite and speck of MoS_2.
		From 160' 3" to 162' 1" well sericitized.
163' 4"	168' 5"	Dark schist light grey and dark grey-black; the light coloration being due to fine grained feldspar enrichment. Contact at 50° to core and schistosity highly contorted but generally at 50°.
		From 163' 4" to 163' 11" highly chloratized with a ½" band of red hematite staining at 163' 10".
168' 5"		END OF HOLE.

D.D. HOLE BB-12 (cont.)

SAMPLE NO.	FOOTAGE			FEET	Cu %
5653	0' 0"	to	7' 11"	7' 11"	.08
5654	7' 11"	to	19' 11"	12' 0"	.21
5655	19' 11"	to	30' 3"	10' 4"	.17
5656	30' 3"	to	36' 0"	5' 9"	.29
5657	36' 0"	to	41' 0"	5' 0"	.42
5658	41' 0"	to	46' 0"	5' 0"	1.3%
5659	46' 0"	to	56' 11"	10' 11"	.38
5660	56' 11"	to	63' 10"	6' 11"	.17
5661	63' 10"	to	74' 10"	11' 0"	.13
5662	74' 10"	to	85' 6"	10' 8"	.21
5663	85' 6"	to	91' 4"	5' 10"	.17
5664	91' 4"	to	99' 0"	7' 8"	.17
5665	99' 0"	to	112' 4"	13' 4"	.21
5666	112' 4"	to	124' 0"	11' 8"	.17
5667	124' 0"	to	135' 9"	11' 9"	.21
5668	154' 6"	to	163' 4"	8' 10"	.17

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-13

LOCATION: Claim Pa. 37560 LAT: 9370N DEP: 15973E
418' North and 331' West of Post #2

DIP: -45° AZIMUTH: 328° DEPTH: 13' 4"

STARTED: July 19, 1967 COMPLETED: July 19, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	6' 1"	Silicified Granite - badly fractured, weathered and leached. From 1' 0" to 2' 8" - lost core. From 4' 0" to 5' 2" - lost core.
6' 1"	7' 2"	Lost core.
7' 2"	13' 4"	Quartz Feldspar Porphyry - highly sheared and fractured. From 7' 7" to 8' 10" - lost core. From 9' 11" to 13' 0" - lost core.
13' 4"		END OF HOLE

NOTE: The hole appeared to be just skirting the bed rock so it was abandoned.

(No samples taken)

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-14

LOCATION: Claim Pa.37560 LAT: 9175N DEP: 16095E
225' North and 210' West of Post #2.

DIP: -46° AZIMUTH: 328° DEPTH: 170' 7"

STARTED: July 20, 1967 COMPLETED: July 27, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	27' 7"	Breccia - a medium grey rock of various grain sizes and compositions composed of xenoliths of fine grained quartz diorite medium grained granite with some blue quartz eyes, medium grained granodiorite, feldspar porphyry and quartz feldspar porphyry. Quite well fractured with those to 12' 10" being well rusted. Generally about 2% mineralized with pyrrhotite, pyrite and chalcopyrite with minor MoS_2. Some good concentrations of chalcopyrite locally. Contact at 27' 7" at 25° to core.
		From 5' 11" to 6' 3" an irregular quartz vein with about 5% pyrrhotite, pyrite and chalcopyrite with fair molybdenite.
		At 7' 5" a 1" quartz stringer with 10% chalcopyrite and fair molybdenite. Contacts obscured by ground core.
		At 7' 11" an irregular quartz injection with about 8% chalcopyrite with MoS_2
		(From 8' 3" to 9' 7")? ground core.
		From 10' 3" to 10' 9" a 1/4" irregular quartz stringer at a low angle with 15% chalcopyrite.
		At 12' 0" a 1½" irregular quartz stringer with fair chalcopyrite.
27' 7"	79' 2"	Feldspar Porphyry - medium grey fine grained ground mass with feldspar phenocrysts up to 3/8" comprising up to 30% of the rock with occasional bluish quartz eyes. Occasional quartz stringers and narrow stringers of heavy sulphides occurred at various angles to core.
		From 28' 2" to 28' 7" an irregular inclusion of granite with sharp contacts.
		At 28' 10" a 1/4" blue quartz stringer at 35° with 5% chalcopyrite and some MoS_2.
		At 31' 3" a 1" blue quartz stringer at 40° with the occasional speck of MoS_2
		From 32' 1" to 32' 4" about 3½% chalcopyrite concentrated around and in 2 - 1/4" blue quartz stringers at 45° with occasional specks of MoS_2.
		At 33' 5" a 1" blue quartz stringer at 50° with about 1% MoS_2.
		At 34' 8" a ½" blue quartz stringer with about 3% chalcopyrite and ½% MoS_2 at 50° to core.
		From 36' 3" to 36' 11" - 3 quartz stringers at various angles to core with numerous specks of MoS_2.
		At 41' 9" a 1" shear zone at 50° to core.
		From 42' 6" to 43' 2" - 3 - ½" to 3/4" bluish quartz stringers at varying angles to core with better than 1% MoS_2.

D.D. HOLE BB-14 (cont.)

FROM	TO	DESCRIPTION
		At 47' 4" a strong slip occurs at 30° with about 1½% chalcopyrite associated.
		At 50' 6" a 3/8" bluish quartz stringer occurs at 65° to core well fractured and with a few specks of MoS_2.
		At 60' 4" a 2" quartz stringer occurs at 40° with 40% massive sulphides as pyrite and chalcopyrite (2:1) with occasional speck of MoS_2.
		At 61' 7" a ½" shear zone with tourmaline, chlorite and chalcopyrite filling at 30° to core.
		At 71' 4" a 1/4" blue quartz stringer at 40° with 15% chalcopyrite and 2% MoS_2.
		At 74' 3" an irregular bluish quartz stringer at a low angle with about 3% chalcopyrite in and associated with it.
		From (77' 0" to 79' 2")? - lost core.
79' 2"	105' 5"	Granite - light grey medium grained rock well fractured with occasional bluish quartz stringers at varying angles to core. Generally about 2% mineral as pyrrhotite and chalcopyrite. Considerable fine chalcopyrite especially to 90' 10".
		From 81' 10" to 82' 5" an irregular feldspar inclusion occurs.
		At 85' 10" a 1/4" quartz-sericite filled slip occurs at 75° to core.
		From 88' 6" to 88' 9" - 2 - ½" to 3/4" bluish quartz stringers occur at 50° and 45° with considerable (25%) pyrite and chalcopyrite (3:1) with some MoS_2.
		At 90' 0" a 2" band of feldspar granite occurs. Contacts obscured by ground core.
		From 99' 3" to 99' 7" a 3/4" bluish quartz rich zone between 2 fractures occurs at 25° with about 5% sulphides as pyrrhotite and chalcopyrite (3:1).
		From 104' 9" to 105' 3" a quartz vein occurs at about 50° with about 1% chalcopyrite.
105' 5"	143' 8"	Feldspar Porphyry - similar to from 27' 7" to 79' 2" occasional narrow blue quartz stringers with chalcopyrite and MoS_2 at varying angles to core.
		From 116' 7" to 118' 10" highly sericitized zone associated with irregular quartz injections. Lineations are from low angles to 40°.
		At 121' 5" - 5" of weakly sheared porphyry at 35° to core.
		From 132' 0" to 133' 6" sheared porphyry at 85° to core.
		At 135' 2" a 2" irregular quartz stringer across with 25% chalcopyrite.
143' 8"	170' 7"	Granite - light grey granitic rock with some bluish-grey "blue quartz eye" sections. Fairly well fractured and occasional narrow (1/8" to ½") bluish quartz stringers at varying angles to core usually with from 1% to 15% sulphides as pyrrhotite, pyrite and chalcopyrite with some MoS_2.
		From 157' 0" to 157' 7" a quartz vein occurs with minor chalcopyrite and a few specks of MoS_2 at 50°.
		At 170' 6" blue quartz eye granite with fair chalcopyrite.
170' 7"		END OF HOLE.

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D.D. HOLE BB-14 (cont.)

SAMPLE NO.	FROM	TO	FEET	%Cu	%MoS_2
5669	0'	13' 9"	13' 9"	.31	.015
5670	13' 9"	27' 7"	13' 10"	.14	.004
5671	27' 7"	41' 9"	14' 2"	.17	.017
5672	41' 9"	54' 9"	13' 0"	.11	.010
5673	54' 9"	67' 0"	12' 3"	.09	.004
5674	67' 0"	79' 2"	12' 2"	.17	.012
5675	79' 2"	90' 10"	11' 8"	.29	.007
5676	90' 10"	105' 5"	14' 7"	.26	.010
5677	105' 5"	118' 10"	13' 5"	.11	.005
5678	118' 10"	132' 3"	13' 5"	.11	.005
5679	132' 3"	143' 8"	11' 5"	.20	.005
5680	143' 8"	157' 2"	13' 6"	.37	.007
5681	157' 2"	170' 7"	13' 5"	.29	.010

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-15

LOCATION: Claim Pa. 37560 LAT: 9148'N DEP: 15998'E
195' North and 965' East of #3 Post

DIP: Collar -34° DEPTH: 152' AZIMUTH: 328°

STARTED: July 29, 1967 COMPLETED: August 2, 1967

LOGGED BY: S. J. Carryer

FROM	TO	DESCRIPTION
0'	63' 0"	Quartz-Feldspar Porphyry - blue-grey medium to fine grained porphyritic rock with phenocrysts of white feldspar. Some zones contain coarse grained phenocrysts of the feldspar. Feldspar comprises 60 - 75% and quartz 10 - 15% of the rock generally with a fine grained ground mass, although some phases with a granitic ground mass were noted. Sulphides (½%), generally pyrrhotite with minor pyrite and chalcopyrite, are present although not consistant. The rock is weakly fractured and chloritic-pyritic joints occur occasionally.

0' to 9" - chloritic fine grained altered zone.
7" to 9" - brecciated zone.
11' 2" - 1" barren quartz vein at core angle 50°.
12' 3" to 12' 5" - quartz vein with a discontinuous sulphide stringer at core angle 55°. Sulphides are pyrrhotite, molybdenite and chalcopyrite
13' 2" to 15' 3" - sericitized zone with 30 - 50% feldspar and 10 - 25% quartz.
16' 8" - ½" barren quartz vein at 50°.
19' 11" - 1" quartz vein at 55°. 2% sulphides at margins of vein (pyrrhotite chalcopyrite and molybdenite).
19' 6" - 1" silicified, erroded shear zone.
23' 6" to 23' 11" - lost core.
27' 4" to 27' 10" - low angle chloritic joints.
33' 1" - quartz-pyrrhotite stringer at core angle 60°.
39' 1" to 39' 3" - quartz veins with 10% sulphides at core angle 55°, (chalcopyrite and pyrrhotite)
39' 3" to 40' 3" - 1% sulphides as pyrrhotite and chalcopyrite.
40' 4" to 41' 0" - barren quartz vein.
42' 6" to 43' 0" - quartz veining across core (90°) with minor pyrite and chalcopyrite.
43' 4" - 1/4" barren quartz vein at core angle 70°.
43' 7" - irregular pyrrhotite stringer.
43' 9" - irregular pyrrhotite stringer.
44' 9" - 1/4" barren quartz vein.
46' 2" - 1" barren quartz vein.
46' 4" - two ½" quartz veins at core angle 50° with minor sulphides (chalcopyrite, pyrrhotite and molybdenite)
47' 5" - 1" quartz vein at core angle 40° with 15% sulphides (pyrrhotite and chalcopyrite)
48' 5" - 1" shear zone with 3% sulphides (pyrrhotite and chalcopyrite)
48' 6" - ½" quartz vein at core angle 65° with minor pyrrhotite, molybdenite and chalcopyrite.

D.D. HOLE BB-15 (cont.)

FROM	TO	DESCRIPTION
		49' 3" - ½" quartz vein at core angle 60° with minor molybdenite.
		49' 5" - ½" quartz vein with 2% sulphides (pyrrhotite, chalcopyrite and molybdenite)
		51' 2" - ½" quartz vein at core angle 70° with 2% sulphides (pyrrhotite, chalcopyrite, pyrite and molybdenite)
		51' 6" - 1/8" barren quartz vein at core angle 130°.
		52' 1" - 1/8" quartz vein with 2% sulphides (pyrrhotite with minor chalcopyrite)
		57' 10" to 58' 8" - sericitized zone.
		58' 1" - 1" brecciated zone at core angle 55°.
		58' 4" to 58' 9" - zone containing pale pink feldspar.
		60' 1" - barren quartz stringer.
		62' 3" to 63' 0" - dark grey brecciated zone containing pyrite cubes.
		62' 4" - 1" zone containing 10% sulphides (pyrrhotite, pyrite and chalcopyrite)
63' 0"	92' 6"	Silicified Granite - a grey medium grained granite with about 1% sulphides disseminated throughout. The sulphides consist predominantly of pyrrhotite with chalcopyrite and minor pyrite. Narrow quartz veins and stringers cut the rock at all angles and pervasive silicification is also present.
		64' 4" - 1/4" chloritic shear at core angle 20° with 5% sulphides (pyrrhotite and chalcopyrite)
		66' 10" - 1/4" chloritic shear at core angle 90° and 5% sulphides as above.
		68' 8" - ½" chloritic shear at 45° and 5% sulphides as above.
		70' 10" - 1" quartz vein at core angle 75° with 10% sulphides (pyrrhotite and chalcopyrite)
		78' 8" - ½" chloritic shear at 45° with parallel sulphide stringer containing pyrrhotite and chalcopyrite.
		82' 5" - ½" chloritic shear with 20% sulphides (pyrrhotite with chalcopyrite and minor molybdenite)
		82' 5" to 83' 6" - 5% sulphides (pyrrhotite and chalcopyrite)
		82' 9" - sulphide stringer at core angle 90° with chalcopyrite and pyrrhotite
		83' 6" to 89' 6" - 2% sulphides as above.
		83' 11" to 84' 2" - chloritic shear with minor pyrite in association with other sulphides as above.
92' 6"	107' 9"	Sericitic Granite - A grey rock of granitic composition but with the texture obscured by sericite. Weak pervasive silicification is generally present. Sulphides are also present.
		92' 6" to 101' 0" - 1% sulphides predominantly pyrrhotite but with chalcopyrite and minor pyrite.
		101' 0" to 107' 9" - 5% sulphides as pyrite pyrrhotite and chalcopyrite (2:2:1).
		98' 6" - chloritic shear at core angle 40° with a parallel pyrrhotite stringer.
		102' 3" to 102' 7" - 10% sulphides; pyrite, chalcopyrite and pyrrhotite (3:2:1)
		106' 3" to 106' 5" - 15% sulphides; pyrite cubes and chalcopyrite (3:1) with minor pyrrhotite.

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D.D. HOLE BB-15 (cont.)

FROM	TO	DESCRIPTION
107' 9"	109' 2"	Dark Schist - dark green fine grained weakly gneissic rock with schistosity at core angle 25%.
		108' 9" to 109' 0" - barren quartz vein.
109' 2"	119' 2"	Sericitic Granite - as 92' 6" to 107' 9" with 2 to 5% sulphides as pyrrhotite, pyrite and chalcopyrite (3:1:1).
		109' 4" to 109' 9" - 25% pyrite occurring as cubes with minor chalcopyrite and molybdenite.
119' 2"	140' 11"	Silicified Granite - as 63' 0" to 92' 6" with 1 - 2% sulphides as pyrrhotite, pyrite and chalcopyrite (3:1 1).
		129' 11" to 130' 5" - 20% pyrite cubes with 2% pyrrhotite and chalcopyrite.
		137' 1" - 1" chloritic shear at core angle 45° with 25% sulphides; pyrite and pyrrhotite (1:1) and minor chalcopyrite.
		140' 0" to 140' 4" - dark schist and with a barren quartz vein. At core angle 25°.
140' 11"	143' 4"	Dark Schist - as 107' 9" to 109' 2" with schistosity parallel to core.
		141' 0" to 141' 3" - barren quartz vein.
		142' 10" - 1" barren quartz vein.
143' 4"	146' 2"	Quartz - barren.
146' 2"	152' 9"	Dark Schist - as 107' 9" to 109' 2" with schistosity parallel to core.
152' 9"		END OF HOLE

SAMPLE NO.	FOOTAGE	Cu%	MoS2%
5682	63' 0" - 70' 0"	0.23	
5683	70' 0" - 80' 0"	0.17	
5684	80' 0" - 92' 0"	0.29	
5685	92' 0" - 101' 0"	0.23	
5686	101' 0" - 107' 9"	0.51	0.004
5687	109' 2" - 119' 0"	0.51	0.004
5688	119' 0" - 130' 0"	0.23	0.003
5689	130' 0" - 140' 11"	0.34	0.003

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-16

LOCATION: Claim Pa. 37560 **LAT:** 9237N **DEP:** 15942E
285' North and 905' East of #3 Post

DIP: Collar -45° **AZIMUTH:** 320° **DEPTH:** 15'

STARTED: August 3, 1967 **COMPLETED:** August 3, 1967

LOGGED BY: S. J. Carryer

FROM	TO	DESCRIPTION
0'	2'	Overburden - soil and boulders.
2'	15'	Silicified Granite - blue grey medium grained granitic rock with 2% sulphides disseminated throughout. The rock is well fractured. The sulphide present is predominantly pyrrhotite but pyrite and chalcopyrite are common especially along fractures. 3' 0" to 3' 9" lost core - massive sulphides probably largely pyrite. 9' 1" to 10' 3" lost core - probably largely sulphides. 11' 7" to 12' 14" lost core. 14' 9" to 14' 11" lost core.
15'		END OF HOLE

SAMPLE NO.	FOOTAGE	Cu%
5889	2' - 15'	0.23

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-17

LOCATION: Claim Pa. 37559 **LAT:** 8954N **DEP:** 15234E
5' South and 211' East of Post #4

DIP: -32° **AZIMUTH:** 340° **DEPTH:** 148' 3"

STARTED: August 4, 1967 **COMPLETED:** August 10, 1967

LOGGED BY: L. B. Staines

FROM	TO	DESCRIPTION
0'	3' 6"	Casing - sand and boulders
3' 6"	4' 3"	Breccia? - badly ground, fractured and weathered.
4' 3"	5' 11"	Lost core.
5' 11"	13' 4"	Silicified Granite - fine grained (locally) grey rock with occasional narrow quartz stringer at various angles to core. 2% to 3% sulphides mostly pyrite with minor chalcopyrite.
13' 4"	21' 10"	Serecitic Granite - medium-dark grey with serecite destroying granitic texture for the most part. Less than 1% sulphides as above.
21' 10"	22' 9"	Quartz Diorite - dark grey to black medium to fine grained rock with 5% to 6% sulphides mostly pyrite with minor chalcopyrite. Upper contact obscured by ground core. Lower contact at 30%.
22' 9"	27' 4"	Dark Schist - with light irregular white feldspar banding schistosity generally at 40°.
27' 4"	92' 5"	Breccia - a composition of various rock types occurring as zenoliths with some sharp contacts and some gradational contacts. Zenoliths of granite, feldspar granite, silicified granite, granodiorite, diorite, quartz diorite, dark schist, chlorite schist and occasional irregular bleb of quartz were observed. The rock is generally mineralized with less than 1% sulphides consisting chiefly of pyrite with some pyrrhotite and minor chalcopyrite. There are narrow zones with up to 10% sulphides which would carry about 1% cu but these are few and far between.
92' 5"	98' 5"	Dark Schist - similar to 22' 9" to 27' 4". Schistosity is locally irregular and contorted but generally at 25° to 30°.
98' 5"	148' 3"	Breccia - similar to from 27' 4" to 92' 5". From 128' 5" to 129' an irregular quartz vein occurs with 1% chalcopyrite and fair MoS_2.
148' 3"		END OF HOLE.

SAMPLE NO	FROM	TO	FEET	%Cu
5693	3' 6"	13' 4"	9' 10"	.14
5694	13' 4"	22' 9"	9' 5"	.16
5695	138' 3"	148' 3"	10' 0"	.19

DIAMOND DRILL HOLE LOG

BEIDELMAN BAY

D.D. HOLE BB-18

LOCATION: Claim Pa. 37560 LAT: 9687N DEP: 15228E
728' North and 208' East of Post #3.

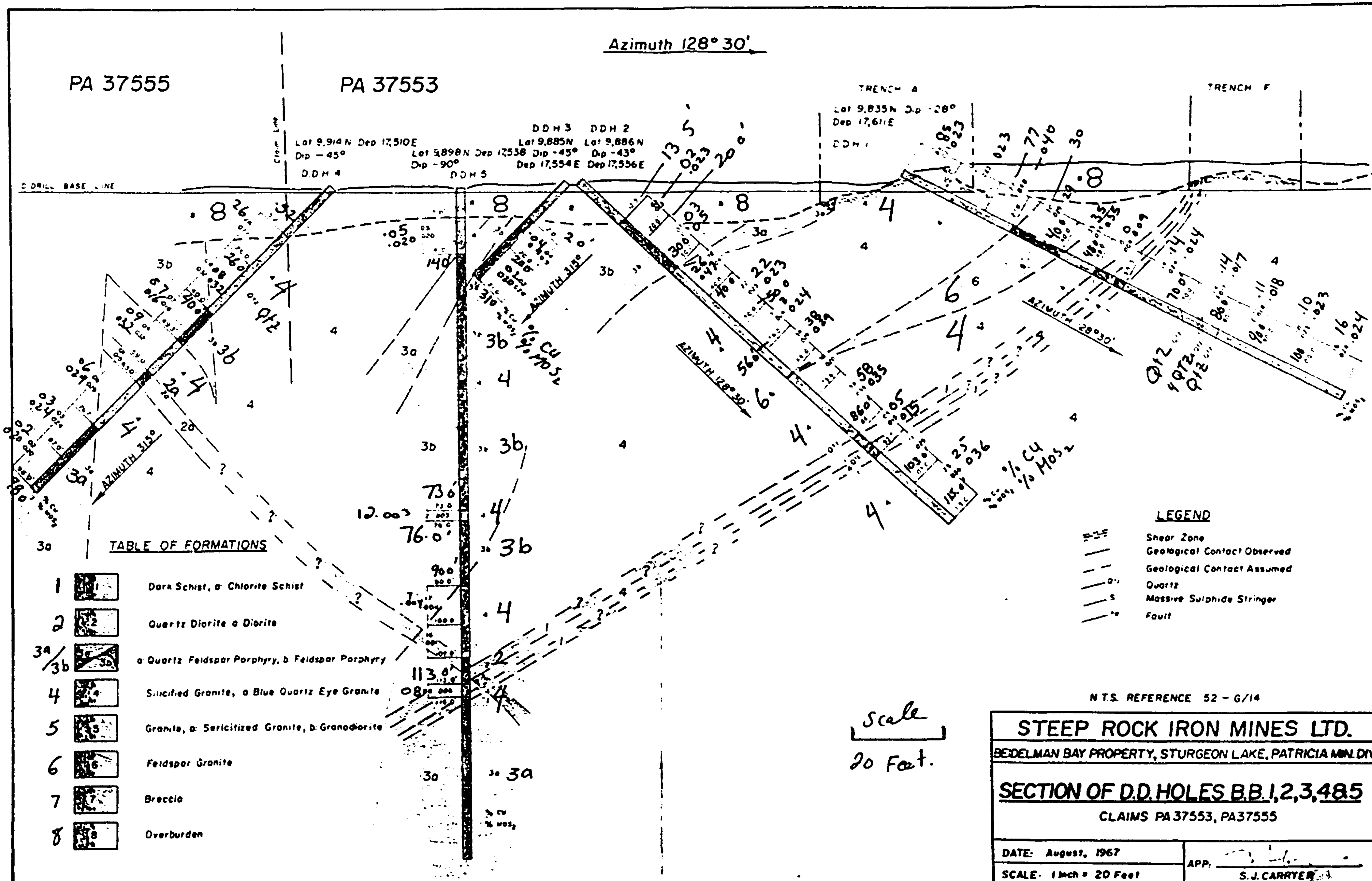
DIP: -45° AZIMUTH: 160° DEPTH: 107' 10"

STARTED: August 11, 1967 COMPLETED: August 14, 1967

LOGGED BY: L. B. Staines

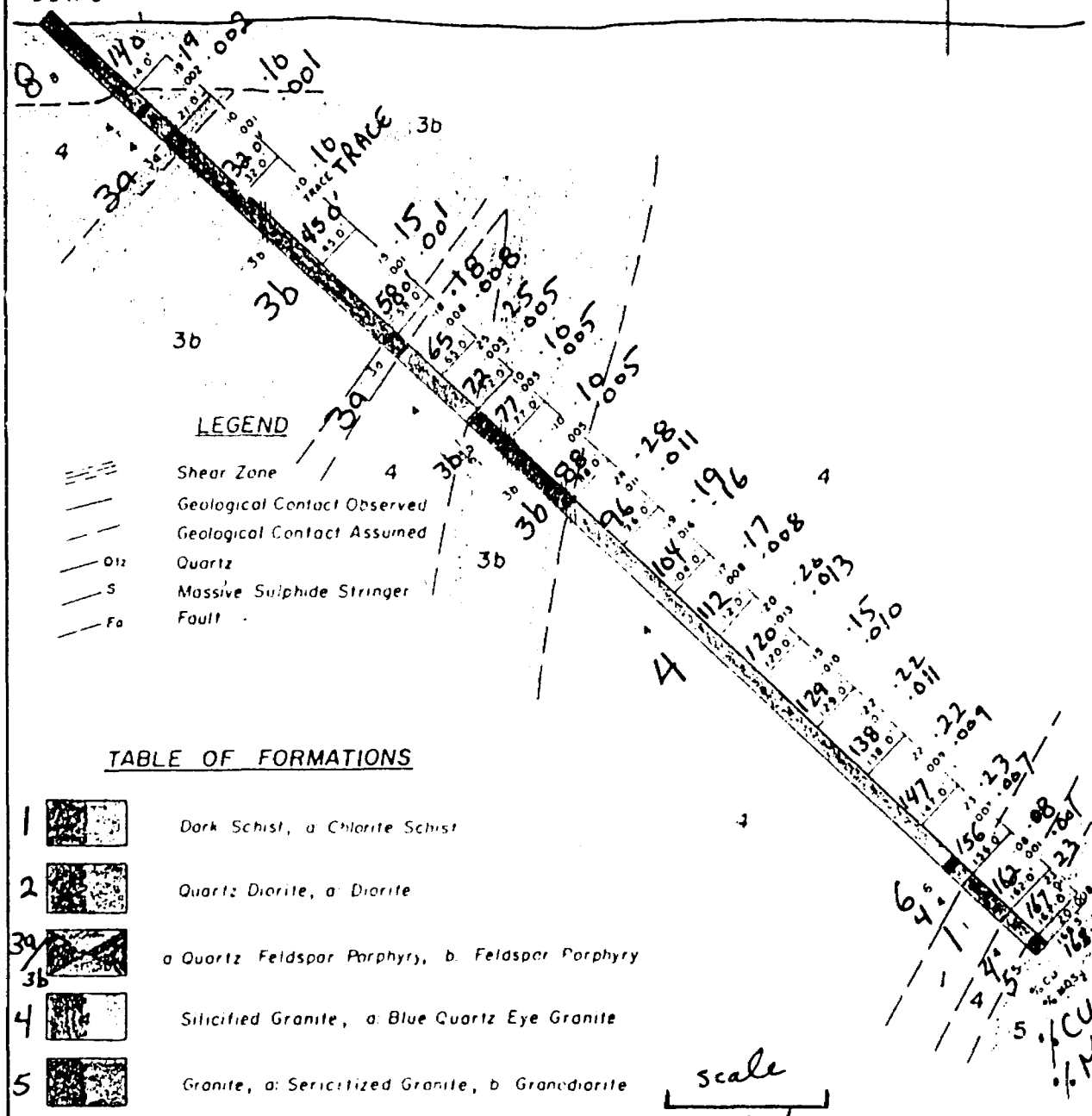
FROM	TO	DESCRIPTION
0'	16' 7"	Granite - (blue quartz eye) - dark blue-grey medium grained granitic rock with 25% blue quartz eyes, less than 1% pyrite. Well fractured and numerous leached zones. From 2' 6" to 2' 10" - lost core. From 4' 9" to 5' 0" - lost core. From 9' 9" to 12' 6" - lost core. From 13' 11" to 14' 7" - dark schist stringer irregular at 50°. Schistosity at 45°. Chloritic for 2" on each contact.
16' 7"	20' 10"	Dark Schist - schistosity at 45°. From 17' 4" to 20' 10" - lost core.
20' 10"	37' 7"	Serecitic Granite - a light bluish grey rock with the granitic texture destroyed in part by the alteration of the feldspar to serecite. Less than 1% pyrite. From 28' 2" to 34' 2" - lost core. The sludge from this zone was very dark and there was considerable sulphides in the cuttings (mostly pyrite). One ½" piece of chloritic schist was recovered. Schistosity at 60° to core.
37' 7"	47' 1"	Granite - well fractured and minor pyrite. From 38' 11" to 42' 11" - lost core.
47' 1"	48' 2"	Dark Schist - schistosity at generally 50°. Contacts sharp at 80°.
48' 2"	52' 6"	Serecitic Granite.- similar to from 20' 10" to 37' 7". From 49' 7" to 51' 0" a quartz feldspar injected zone at 45° to core. Minor pyrite.
52' 6"	86' 4"	Granite - light bluish grey to light grey rock with fair fracturing and minor pyrite with occasional serecitic rich zone and fine grained phase. From 56' 6" to 57' 3" - lost core. From 62' 9" to 63' 6" fine grained feldspar granite. At 65' 11" a 3/4" fault zone at 45° to core.
86' 4"	87' 11"	Dark Schist - contacts and schistosity at 60° to core.
87' 11"	107' 10"	Granite - similar to above. From 101' 8" to 102' 2" a quartz-tourmaline-chlorite-feldspar stringer occurs at 45° to core.
107' 10"		END OF HOLE.

(No samples were taken for assay)


Azimuth 128° 30'
PA 37555
PA 37553
TRENCH A
TRENCH F
Lat 9,914 N Dep 17,510 E
Dip −45°
DDH 4
Lat 9,898 N Dep 17,538
Dip −90°
DDH 5
DDH 3
Lat 9,885 N
Dip −45°
Dep 17,554 E
DDH 2
Lat 9,886 N
Dip −43°
Dep 17,556 E
Lat 9,835 N Dip −28°
Dep 17,611 E
DDH 1
DRILL BASE LINE
AZIMUTH 315°
AZIMUTH 128°30'
% Cu
% MoS2
TABLE OF FORMATIONS
1 Dark Schist, a Chlorite Schist
2 Quartz Diorite a Diorite
3a/3b a Quartz Feldspar Porphyry, b Feldspar Porphyry
4 Silicified Granite, a Blue Quartz Eye Granite
5 Granite, a Sericitized Granite, b Granodiorite
6 Feldspar Granite
7 Breccia
8 Overburden
LEGEND
Shear Zone
Geological Contact Observed
Geological Contact Assumed
Quartz
Massive Sulphide Stringer
Fault
Scale
20 Feet.
N.T.S. REFERENCE 52 − G/14
STEEP ROCK IRON MINES LTD.
BEIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN. DIV
SECTION OF D.D. HOLES B.B. 1,2,3,4&5
CLAIMS PA 37553, PA37555
DATE: August, 1967
SCALE: 1 Inch = 20 Feet
APP.
S.J. CARRYER

AZIMUTH 150°

Lat. 9,831 Dep. 17,448E
Dip -43°
D.D.H 6



LEGEND

- Shear Zone
- Geological Contact Observed
- Geological Contact Assumed
- Qtz — Quartz
- S — Massive Sulphide Stringer
- Fa — Fault

TABLE OF FORMATIONS

1	Dark Schist, a Chlorite Schist
2	Quartz Diorite, a Diorite
3a/3b	a Quartz Feldspar Porphyry, b. Feldspar Porphyry
4	Silicified Granite, a Blue Quartz Eye Granite
5	Granite, a Sericitized Granite, b Granodiorite
6	Feldspar Granite
7	Breccia
8	Overburden

Scale
20 Feet.

NTS REFERENCE 52 - G/14

STEEP ROCK IRON MINES LTD.

BEIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN DIV

SECTION OF D.D. HOLE B.B. 6

CLAIM PA 37555

DATE: August, 1967
SCALE 1 Inch = 20 Feet

APP. L B STAINES

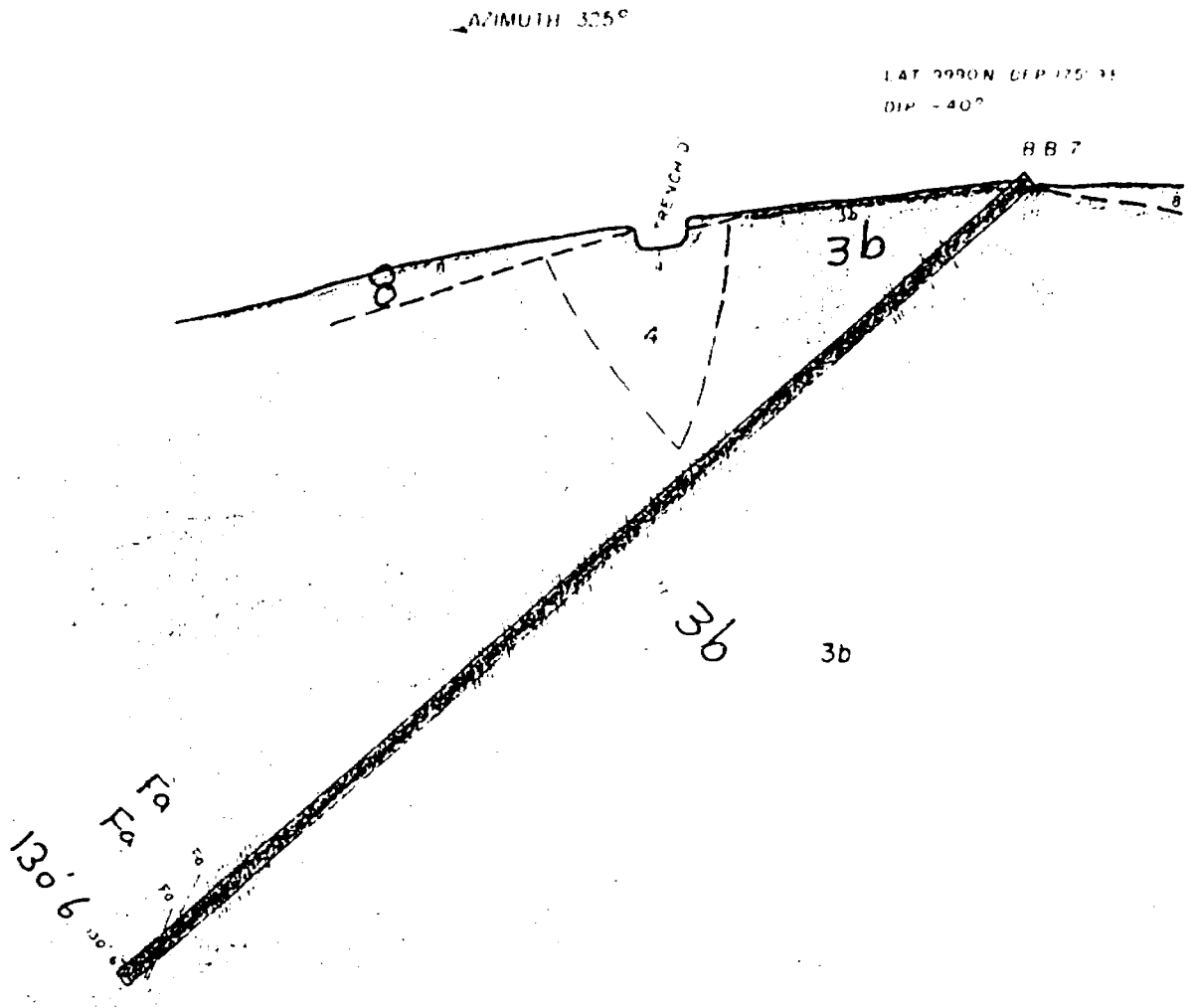


TABLE OF FORMATIONS

1		Dark Schist, a Chlorite Schist
2		Quartz Diorite a Diorite
3a/3b		a Quartz Feldspar Porphyry, b Feldspar Porphyry
4		Silicified Granite, a Blue Quartz Eye Granite
5		Granite, a Sericitized Granite, b Granodiorite
6		Feldspar Granite
7		Breccia
8		Overburden

LEGEND

- Shear Zone
- Geological Contact Observed
- Geological Contact Assumed
- Qtz — Quartz
- S — Massive Sulphide Stringer
- Fa — Fault

Scale
20 Feet.

N T S REFERENCE 52 – G/14

STEEP ROCK IRON MINES LTD.

BIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN DIV

SECTION OF D.D. HOLE B.B.7

CLAIM PA 37553

DATE: July, 1967
SCALE: 1 Inch = 20 Feet

APP L B STAINES

AZIMUTH 145°

LAT 9790 N DEP 17314 E
DIP -45°

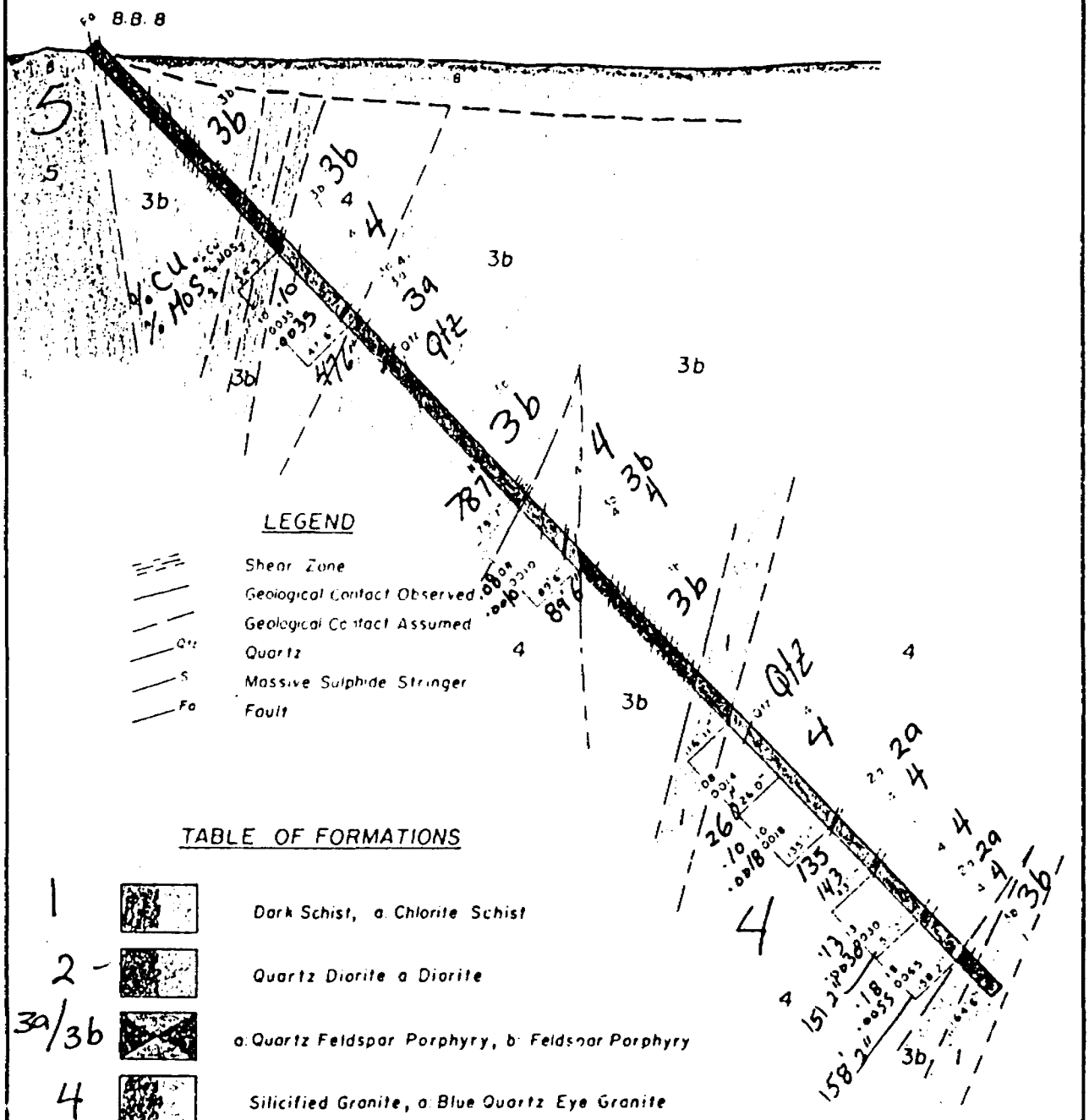


TABLE OF FORMATIONS

1	Dark Schist, a. Chlorite Schist
2	Quartz Diorite a Diorite
3a/3b	a. Quartz Feldspar Porphyry, b. Feldspar Porphyry
4	Silicified Granite, a. Blue Quartz Eye Granite
5	Granite, a: Sericitized Granite, b: Granodiorite
6	Feldspar Granite
7	Breccia
8	Overburden

Scale
20 Feet

N.T.S. REFERENCE 52 – G/14

STEEP ROCK IRON MINES LTD.

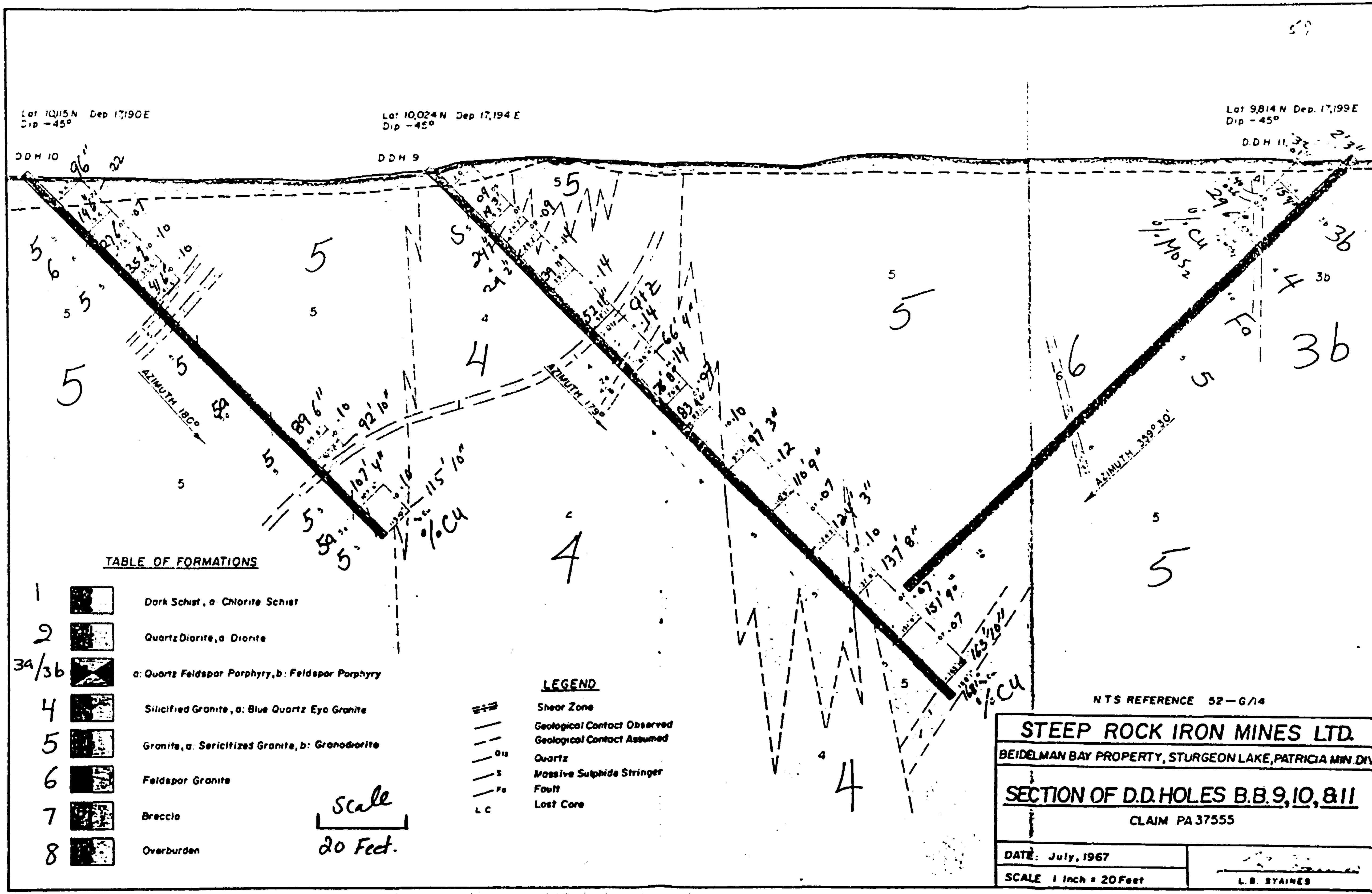
BEIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN DIV

SECTION OF D.D. HOLE B.B. 8

CLAIM PA 37555

DATE: August, 1967
SCALE: 1 inch = 20 Feet

APP. L. B. STAINES



Lat 10,115 N Dep 17,190 E
Dip -45°
DDH 10
Lat 10,024 N Dep 17,194 E
Dip -45°
DDH 9
Lat 9,814 N Dep 17,199 E
Dip -45°
D.D.H 11
AZIMUTH 180°
AZIMUTH 179°
AZIMUTH 359°30'
%Cu
%MoS2
TABLE OF FORMATIONS
1 Dark Schist, a: Chlorite Schist
2 Quartz Diorite, a: Diorite
3a/3b a: Quartz Feldspar Porphyry, b: Feldspar Porphyry
4 Silicified Granite, a: Blue Quartz Eye Granite
5 Granite, a: Sericitized Granite, b: Granodiorite
6 Feldspar Granite
7 Breccia
8 Overburden
Scale
20 Feet
LEGEND
Shear Zone
Geological Contact Observed
Geological Contact Assumed
Quartz
Massive Sulphide Stringer
Fault
Lost Core
NTS REFERENCE 52—G/14
STEEP ROCK IRON MINES LTD.
BEIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN. DIV.
SECTION OF D.D. HOLES B.B. 9, 10, & 11
CLAIM PA 37555
DATE: July, 1967
SCALE 1 Inch = 20 Feet
L.B. STAINES

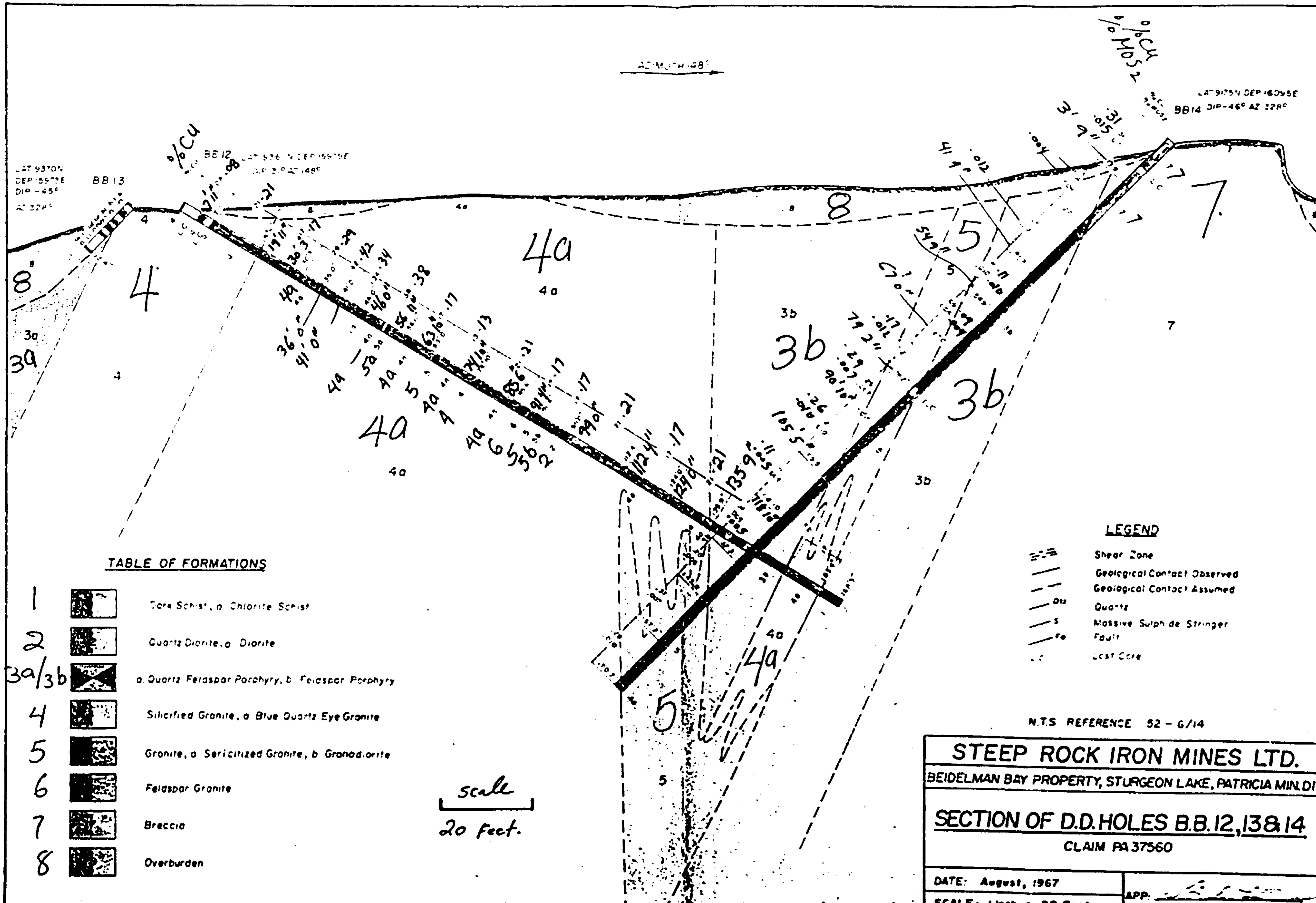


TABLE OF FORMATIONS

1	Core Schist, a Chlorite Schist
2	Quartz Diorite, a Diorite
3a/3b	a Quartz Feldspar Porphyry, b Feldspar Porphyry
4	Silicified Granite, a Blue Quartz Eye Granite
5	Granite, a Sericitized Granite, b Granodiorite
6	Feldspar Granite
7	Breccia
8	Overburden

scale
20 feet.

LEGEND

- Shear Zone
- Geological Contact Observed
- Geological Contact Assumed
- Qtz — Quartz
- S — Massive Sulphide Stringer
- Fe — Fault
- L.C. — Lost Core

N.T.S. REFERENCE 52 - G/14

STEEP ROCK IRON MINES LTD.

BEIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN. DIV.

SECTION OF D.D. HOLES B.B. 12, 13 & 14

CLAIM PA 37560

DATE: August, 1967

SCALE: 1 inch = 20 Feet

APP. L. B. STAINES

AZIMUTH 328°

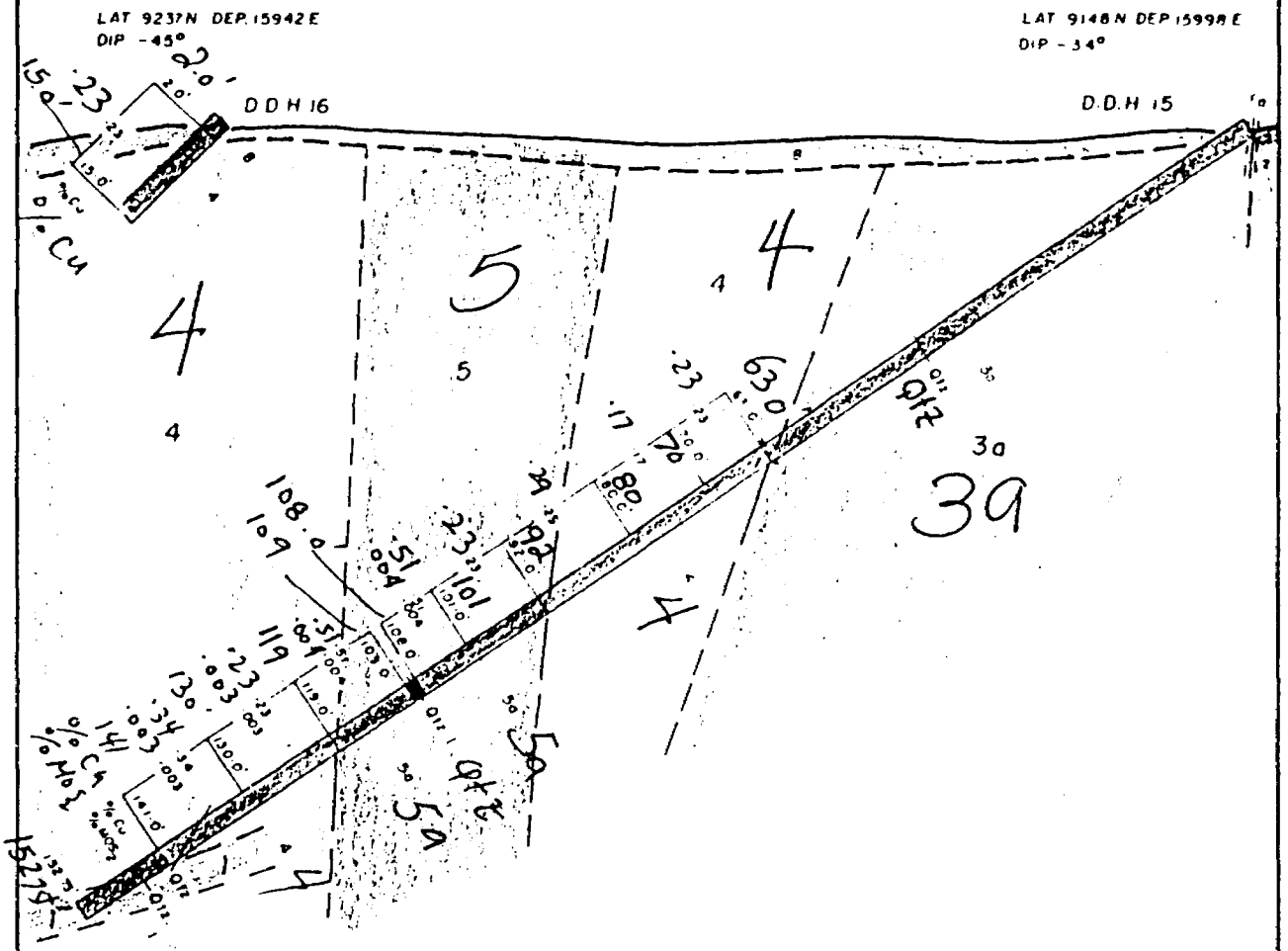


TABLE OF FORMATIONS

1		Dark Schist, a: Chlorite Schist
2		Quartz Diorite, a Diorite
39/3b		a: Quartz Feldspar Porphyry, b: Feldspar Porphyry
4		Silicified Granite, a. Blue Quartz Eye Granite
5		Granite, a Sericitized Granite, b: Granodiorite
6		Feldspar Granite
7		Breccia
8		Overburden

LEGEND

	Shear Zone
	Geological Contact Observed
	Geological Contact Assumed
Qtz	Quartz
S	Massive Sulphide Stringer
Fo	Fault
L C	Lost Core

Scale
20 Feet

N.T.S. REFERENCE 52—G/14

STEEP ROCK IRON MINES LTD.

BEIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MINING DIV.

SECTION OF D.D. HOLE B.B. 15816

CLAIM PA 37560

DATE August, 1967

SCALE 1 Inch = 20 Feet

S. J. CARRYER, GEOLOGIST

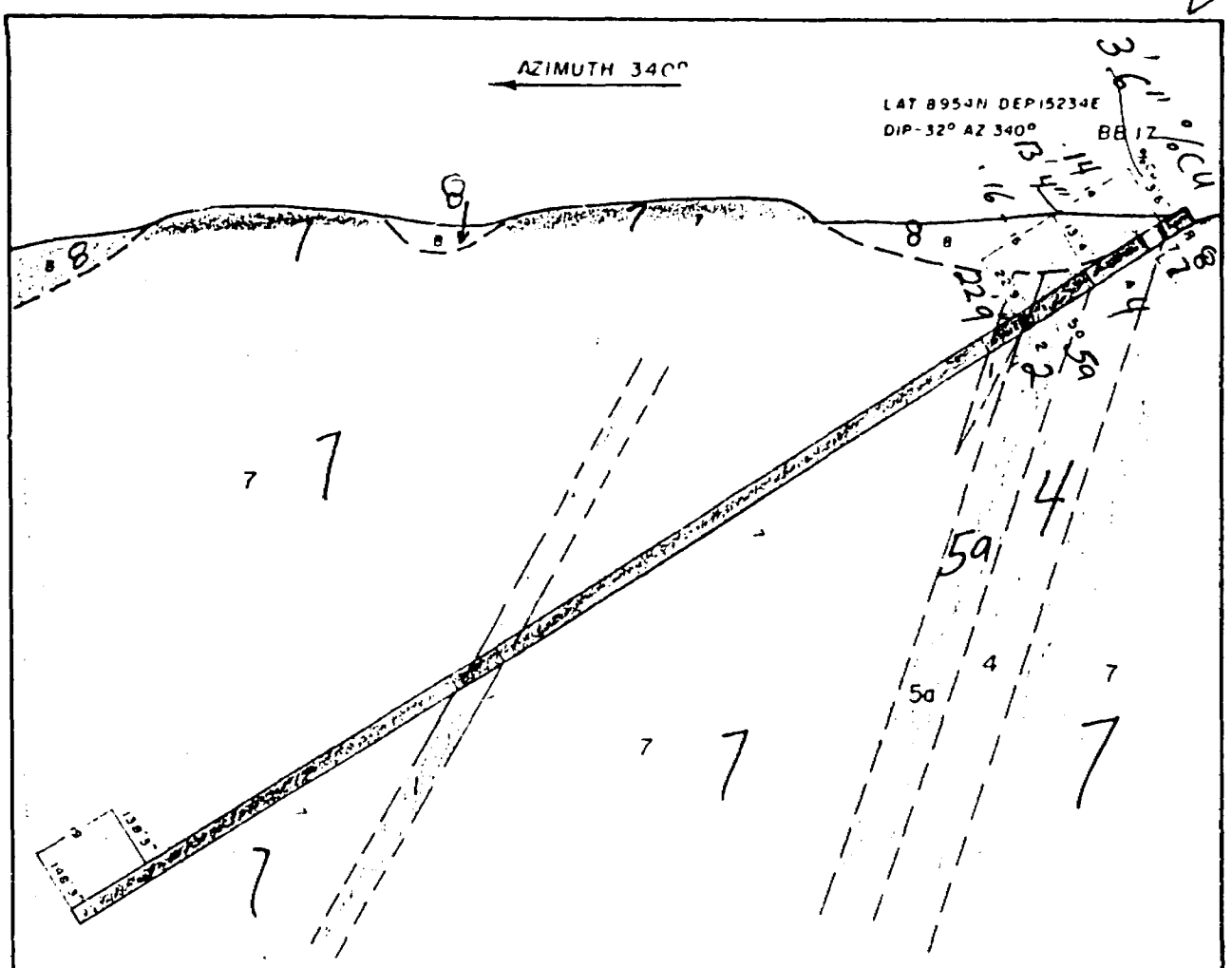


TABLE OF FORMATIONS

1		Dark Schist, a Chlorite Schist
2		Quartz Diorite, a Diorite
3a/3b		a: Quartz Feldspar Porphyry, b Feldspar Porphyry
4		Silicified Granite, a. Blue Quartz Eye Granite
5		Granite, a. Sericitized Granite, b. Granodiorite
6		Feldspar Granite
7		Breccia
8		Overburden

Scale
20 feet

LEGEND

	Shear Zone
	Geological Contact Observed
	Geological Contact Assumed
Qtz	Quartz
S	Massive Sulphide Stringer
Fc	Fault
L.C.	Lost Core

N.T. REFERENCE 52 — G/14

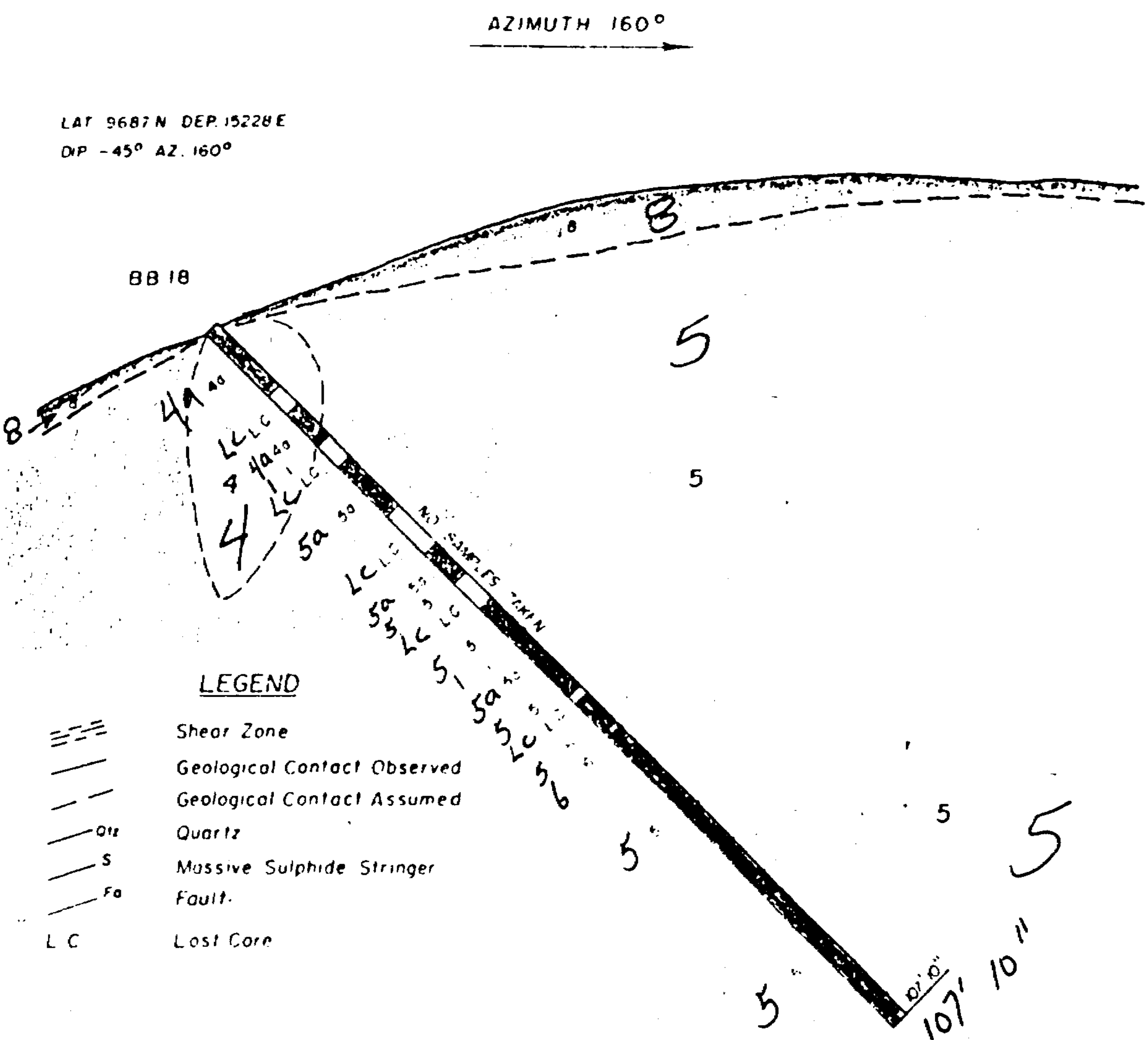
STEEP ROCK IRON MINES LTD.

BEIDELMAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN DIV

SECTION OF D.D. HOLE BB17

CLAIM PA 37560 ?

DATE August, 1967	APP L B STAINES
SCALE 1 inch = 20 Feet	



LEGEND

- Shear Zone
- Geological Contact Observed
- Geological Contact Assumed
- Qtz — Quartz
- S — Massive Sulphide Stringer
- Fa — Fault
- L C — Lost Core

TABLE OF FORMATIONS

1	Dark Schist, a. Chlorite Schist
2	Quartz Diorite, a. Diorite
3a/3b	a Quartz Feldspar Porphyry, b Feldspar Porphyry
4	Silicified Granite, a. Blue Quartz Eye Granite
5	Granite, a Sericitized Granite, b Granodiorite
6	Feldspar Granite
7	Breccia
8	Overburden

Scale
20 Feet

N T S REFERENCE 52 – G/14

STEEP ROCK IRON MINES LTD.

BLIDEL MAN BAY PROPERTY, STURGEON LAKE, PATRICIA MIN DIV

SECTION OF D.D. HOLE BB18

CLAIM PA 37560

DATE: August, 1967
SCALE 1 inch = 20 Feet
APP: L B STAINES