

# Drill Hole Record



006145

Property	JERRY GROUP	District	Swim Lakes, Y.T.	Hole No.	C-1
Commenced	Sept. 2/68	Location		Tests at	Hor. Comp.
Completed	Sept. 6/68	Core Size		Corr. Dip	Vert. Comp. 1178'
Co-ordinates				True Brg.	Logged by ARM
Objective				% Recov. 95%	Date Sept. 24/68

Claim	T Brg.	Collar Dip	Vert.	Elev.	Length
				5,300 (Alt.)	

Footage		Description	Sample No.	Length	Analysis					
From	To									
0	14	Phyllite: Dark grey fine laminated, few light grey colour bands at 13', some gblt. structure.								
14	23	Greenstone: Light olive green, fine folia., prophyblasts of iron carbonate in part oxidized to limonite. @ 16' brecciated. light creamy-green tuffs on borders.								
23	26.5	Tuffs: Light green-greasy looking, contact with dark grey phyllite almost vert. and folded: all calcareous.								
26.5	35	Phyllite: Dark grey, calcareous interlamination. @ 28' - 2" olive green-greasy looking phyllitic tuffs. @ 29' - 30' light olive green-greasy looking phyllitic tuffs.								
35	63	Phyllitic Dark grey, thin banded highly folded with Gblt. structure. Limestone: @ 37' little interlaminated xline pyrite. @ 50' increase in pyritic bands which are calcareous and chloritic.								
63	65	Quartz: White with little chlorite.								
65	112	Phyllite: Dark grey in part calcareous, @ 60-62' - light greeny-creamy specky phyllite. @ 73-74' - light grey-green fine phyllite (tuffs) grey limy interbands. @ 77' - 4" grey thin bedded limestone @ 82' - 2" of banded disseminated pyrite, foliation normal to core @ 103-104' - interlaminated grey limestone. @ 116-119' - grey limestone phyllitic interlamination. @ 117-118' - quartz carbonate veins.								
112	120	Limestone: Light to dark grey, thin banded, in part phyllitic partings.								

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Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Vert.  
Elev. 3,300' (Alt.)  
Length 1,178'

Footage From	To	Description	Sample No.	Length	Analysis					
120	140	Phyllite: Dark grey to almost black. @ 137-138 disseminated pyrite, pyrrhotite in a siliceous groundmass.								
140	143	Phyllite: Light green banded (tuffs). White banding, little disseminated pyrite. @ 142' a 1/4" band of crystalline pyrite.								
143	148	Phyllitic: Dark grey with fine laminations. Limestone								
148	218	Phyllite: Dark to light grey colour banding interlaminated grey siliceous - calcareous bands micro-folds and Gblt. Structure. @ 156-160' - brecciated phyllite healed with white vein quartz and chlorite. @ 180' - 3% scattered crystalline pyrite. @ 193-196' - three feet lost core. @ 196.5' - 1/4" band very fine grained pyrite. @ 208-218' - 30% white quartz chlorite vein material.								
218	238	Phyllite: Dark grey with interlaminated grey siltstone grades into a limy grey thin bedded siltstone. @ 223' fine grained disseminated dusty appearing pyrite.								
238	258	Phyllite: Dark grey, fine foliation, minor intercalated limy siltstone, light grey. @ 248-258' - 50% white quartz-carbonate veins.								
258	275	Siltstone: Grey thin to medium banded and calcareous. 20% interlaminated dark to light grey phyllite almost a siliceous limestone in some sections.								
275	295	Limestone: Light grey, medium to fine grained, intercalated fine dark grey phyllite and limy grey siltstone.								

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Commenced		Location	Tests at	
Completed		Core Size	Corr. Dip	Hor. Comp.
Co-ordinates			True Brg.	Vert. Comp.
Objective			% Recov.	Logged by
				Date

Claim  
T Brg.  
Collar Dip  
Vert.  
Elev. 3,300' (Alt.)  
Length 1,178'

Footage From	To	Description	Sample No.	Length	Analysis					
295	350	Phyllite: Dark grey 20% limestone interbands, in part silty, some sections very fine laminated @ 334 fine laminated calcareous siltstone, light and dark grey phyllite.								
350	366	Limestone: Light grey medium grained silty and phyllitic interlamination.								
366	522	Phyllite: Dark to light grey, interlaminated siliceous limestone, few quartz chlorite veins. @ 401-433' - 20% quartz carbonate veins. @ 401 decrease in the amount of interlaminated limestone and siliceous limestone. @ 409' breccia and gouge. @ 432' - 1/2" quartz carbonate vein with fine pyrrhotite. @ 468' - few small thin layers of crystalline pyrite. @ 478' beginning 10-15% interlaminated grey calcareous silty. @ 493' - Large crystalline pyrite partially replaced by pyrrhotite. @ 516-518' - fine foliated light olive-grey phyllite (tuffs) few white fine grained quartz-pyrite laminations. @ 520' - two 1/2 inch bands pyrite and granular white quartz.								
522	613	Phyllite: Limestone to grey siltstone, increase in pyritic bands. Limy layers become less so that at 590' there is very little calcareous material. @ 610' brecciated and gougy, 2' quartz chlorite vein.								
613	643	Siltstone: More like impure thin bedded grey to black quartzite, not carbonaceous. @ 613-615' shattered with chlorite and earthy red hematite. In part phyllitic with little disseminated and fracture filling red earthy hematite.								



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Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Vert.  
Elev. 3,300' (Alt.)  
Length 1,178'

Footage		Description	Sample No.	Length	Analysis					
From	To									
643	666	Siltstone: grey, thin banded to laminated, intercalated dark grey phyllite. The grey silty layers are usually calcareous, little scattered crystalline pyrite.								
666	672	Siltstone: Fine grained dark grey to black, not carbonaceous fractured with earthy red hematite, chlorite and iron carbonate. @ 668' very siliceous breccia.								
672	703	Siltstone: Light grey, partly calcareous, interlaminated dark grey phyllite. @ 672' - 6" breccia, little scattered crystalline pyrite - few blebs pyrrhotite. Some sections of Gblt. Structure.								
703	758	Siltstone: Light grey, calcareous, 30% dark grey interlaminated phyllite, increasing calcareous to limestone bands at 723-754', few scattered crystalline pyrite partially replaced by pyrrhotite. @ 762-763 light grey phyllitic tuffs. .5% Cu in chalcopyrite in small cross fractures.								
803	805	Tuffs: light olive green, fine foliation.								
805	811	Greenstone: Light greeny-grey medium grained, in part tuffaceous, minor foliation at 808' four inches siliceous matrix with fine disseminated pyrrhotite and larger crystalline pyrite. Little disseminated pyrite throughout and traces of chalcopyrite.								
811	817	Tuffs: Dark green chloritic and sheared. Little disseminated chalcopyrite, with abundant epidote and some red hematite, also a light pink mineral (garnet?) @ 813' - very soft altered zone.								
817	821	Greenstone: Light green, phyllitic and tuffaceous looking.								



# Drill Hole Record



Property	JERRY MOGAR	District	Hole No.	C-1
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Glaim	T Brg.	Collar Dip	Vert.	Elev.	Length
				3,300 (Alt.)	1,178'

Footage		Description	Sample No.	Length	Analysis					
From	To									
865	895	continued....								
		@ 870 - one inch of scattered 3% pyrite crystals.								
		@ 870-77' 70% grey siltstone - calcareous with little pyrite.								
		@ 882 - two inches creamy phyllitic tuffs.								
		@ 885-95 - 2% pyrite in thin bands and in laminations and as large random crystals.								
		Traces of dark brown sphalerite in white granular quartz pyrite interlamination.								
		Extensive transpositional structures in this section. (Gblt. structure).								
895	909	Meta- Thin laminated to thin bedded, grey with 50% black carbonaceous siltstone and Siltstone: phyllite. Scattered pyrite crystals.								
909	912	Quartz: White barren with carbonate and chlorite. @ 912' - 2 inches, creamy-grey siliceous tuff - small siliceous bands with pyrrhotite pyrite and traces of chalcopyrite.								
912	913	Meta- Carbonaceous black, thin laminated white siliceous interlaminations. Siltstone								
913	914	Tuffs: Creamy-grey fine folia. talcy to siliceous bands near bottom, minor Po.								
914	964	Meta- Extensive transpositional structure. Predominately carbonaceous but with 20% inter- Siltstone: bands of grey siltstone, minor pyrrhotite-pyrite in laminations. @ 921-922' Quartz with light green chlorite, some sections up to one inch thick of black argillite. @ 938' Large (1 cm.) pyrrhotite pseudomorphs after pyrite. @ 939' Siliceous breccia.								

# Drill Hole Record



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Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Claim	T Brg.	Collar Dip	Vert.	Elev.	Length	Hole No.
				3,200' (Alt.)	1,178'	Sheet

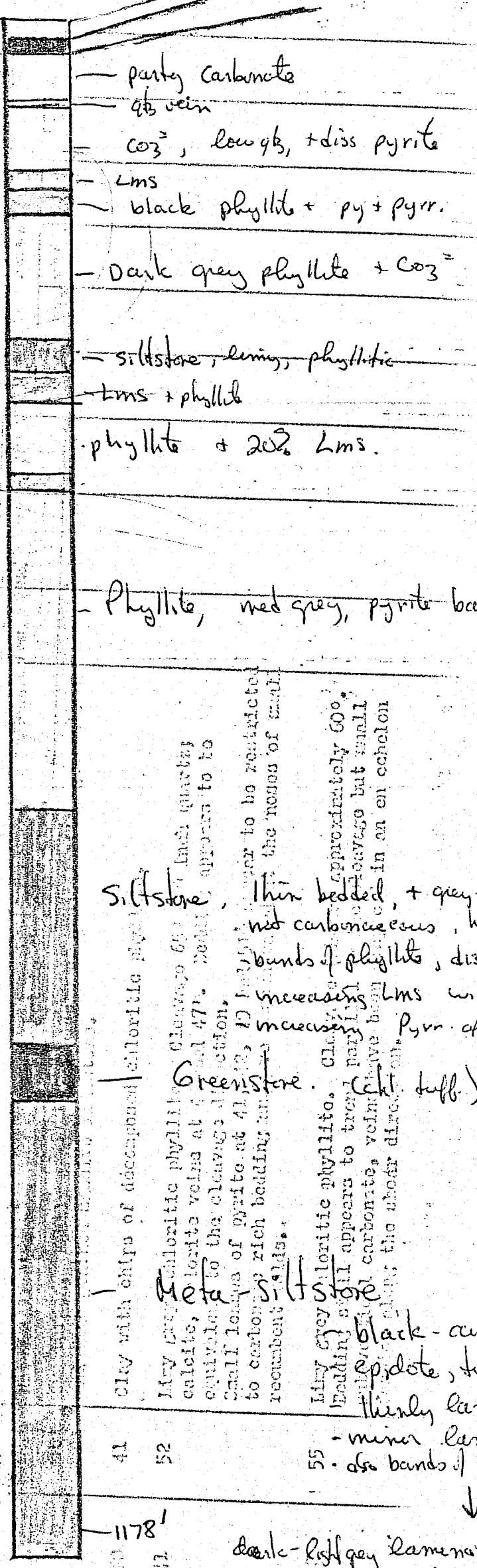
Footage From	To	Description	Sample No.	Length	Analysis								
914	964	continued....											
		@ 946-48' White barren quartz, also increasing black-white laminated siltstone.											
		@ 961' Two inches of light grey medium grained limestone.											
964	988	Meta- Carbonaceous with 20% interlaminated to banded yellow-greenish tuffaceous material											
		Siltstone: - few 1 mm. knots of pyrrhotite with traces of chalcopyrite. Rock becoming very siliceous.											
		@ 969' several quartz-chlorite epidote stringers, traces of galena at 970',											
		extensive transpositional features.											
988	1178	Meta- Dark grey to light grey, thin laminated and very siliceous probably closer to an											
		Siltstone: impure thin bedded quartzite, 20% interlaminated tuffs and epidote, 5% interlaminated grey phyllite.											
		@ 1003 - One 2 mm. knot of chalcopyrite with little sphalerite											
		@ 1008 - 1/4 inch epidote filled fracture.											
		@ 1022-23' White barren quartz, some chlorite.											
		@ 1027-29' 4% white quartz.											
		From 1020 on the intercalated tuffs are becoming increasingly cherty.											
		@ 1050 and 1070' thin bands white and black laminated siltstone.											
		@ 1043' siliceous breccia zone with pyrrhotite and chalcopyrite on upper contact.											
		@ 1084' - Six inches of creamy-grey brown fine foliated tuffs.											
		@ 1100' on - all light grey siltstone, minor dark grey phyllite, no sulphides, few quartz-epidote-chlorite sections, few light grey fine foliated tuff sections.											
		END OF HOLE											

# Diamond Drill Sampling Record

Hole No. CR-80-1 Sheet 1  
 Property P.V. GROUP Length 215' Beating  
 Fishnet Eastern  
 Commenced 12/21/63 Dip 30°  
 Completed 1/1/63 Objective  
 From 1200 To 1100

Ver. Comp. Total Recovery % 85 approx.  
 Elch. at 100  
 True Dip 40°  
 Hor. Comp. Elch. at 500  
 True Dip 60°  
 Ver. Comp. Total Recovery % 85 approx.  
 Elch. at 100  
 True Dip 40°  
 Hor. Comp. Elch. at 500  
 True Dip 60°

Verry Group - (Commed)  
 Moger Mines



- partly carbonate  
 - qtz vein  
 -  $Co_3$ , low qtz, + diss pyrite  
 - Lms  
 - black phyllite + py + pyrr.  
 - Dark grey phyllite +  $Co_3$   
 - siltstone, limy, phyllitic  
 - Lms + phyllite  
 - phyllite + 20% Lms.  
 - Phyllite, med grey, pyrite bands.

Siltstone, thin bedded, + grey-black qtzite  
 med carbonaceous, hematite  
 bands of phyllite, diss. py.  
 increasing Lms with depth  
 increasing Pyrr. after py.

Greenstone. (cht. buff.) diss py. pyrr. choco, hem.

Meta-siltstone  
 black-carbonaceous  
 epidote, tuffs, siliceous, bands  
 thinly laminated, muscovite  
 minor lamina of Pyrr. + Py.  
 also bands of Lms, Argillite.

↓  $SiO_2$  increasing  
 dark-light grey laminated qtzite with bands  
 of tuff + epidote.

Clay with chips of decomposed chloritic phyllite  
 cleavage 60° to 47°. Bedding appears to be  
 equivalent to the cleavage of section.  
 small lenses of pyrite at 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120

1178'





# Diamond Drill Sampling Record



Hole No. CF-68-1 Sheet 3  
 Property \_\_\_\_\_ Length \_\_\_\_\_ Lat. \_\_\_\_\_  
 District \_\_\_\_\_ Bearing \_\_\_\_\_ Dep. \_\_\_\_\_  
 Commenced \_\_\_\_\_ Dip \_\_\_\_\_ Elev. \_\_\_\_\_  
 Completed \_\_\_\_\_ Objective \_\_\_\_\_

Hor. Comp. \_\_\_\_\_ Ver. Comp. \_\_\_\_\_  
 Etch. at \_\_\_\_\_ Total Recovery % \_\_\_\_\_  
 True Dip \_\_\_\_\_ Logged by \_\_\_\_\_  
 Location \_\_\_\_\_

Footage		Description	Shorts Feet	Sample No.	Length Feet	Analysis					Recovery %
From	To										
85'	86.5'	Dips approximately 45° with 4" quartz-carbonate vein at 86.5.									
86.5	87	Grey phyllite; bedding near vertical with small 75° shear displacements.									
87	91	Dips undetermined. Sub-vertical with shear displacements along 75°-60° shear direction. A 4-inch carbonate vein at 88.5 and a 1/2-inch vein at 89.5. Both dip 45°.									
91	98.5	Light grey, lightly banded chloritic phyllite. Dips vary from 45° (96') to 90° (98.5) with minor drag folding and 75° shear displacements.									
98.5	102'	Light grey chloritic phyllite. Shear direction approximately 60°. Phyllite is quite contorted with small displacements along the core axis.									100
102	109	Fairly uniform thinly laminated light grey chloritic phyllite. Dips (?) may be equivalent to cleavage but in all probability bedding has been destroyed by shearing.									
109	115	Bedding (?) much more distorted by minor folds and shear displacements common.									
115	118	Shear direction appears to be approximately equivalent to bedding (75°-60°). Pyrite at 117.5.									
118	120	Pyrite in calcareous zones (bands) of the phyllite is contorted but sub-vertical in its grosser aspects. At 120 ft. cleavage appears to coincide with bedding.									

# Diamond Drill Sampling Record



Hole No. CT-68-1 Sheet 4

Property	Length	Lat.	Hor. Comp.	Ver. Comp.
District	Bearing	Dep.	Etch. at	Total Recovery %
Commenced	Dip	Elev.	True Dip	Logged by
Completed	Objective		Location	

Footage		Description	Shorts Feet	Sample No.	Length Feet	Analysis					Recovery %
From	To										
120'	122'	Light grey chloritic phyllite. Cleavage is approximately equivalent to bedding which dips between 75 and 60°.									100
122	123	Bedding is sub-vertical and contorted. Small fold axes are nearly horizontal.									
123	124.5	Cleavage is approx. equal to bedding, which ranges from sub-vertical to 45°.									
124.5	125.	Small fold axes trend approximately 60°.									
125	130	Regular folding of thin-bedded, light chloritic phyllite. Fold axes are horizontal and the "wave length" of the folds is about 6 inches. At 125 pyrite occurs in the nose of one of these folds.									
130	132	Bedding approximately equal to cleavage direction which is 45°.									
132	134.5	Bedding/cleavage is approximately 60° but there are numerous small fold axes trending at 70°.									
134.5	137.5	Cleavage/bedding is more regular (~70°) with 1/8-inch sub-vertical carbonate veins which appear to be tension fractures. At 136.75 there is an 8-inch calcite-chlorite vein which may in fact represent an earlier limestone layer recrystallized.									100
137.5	139	Light grey chloritic phyllite with bedding/cleavage at 60°. Pyrite at 138.75.									
139	141.5	Bedding approx. equal to cleavage (70°) 1/2 to 1 inch carbonate (calcite) bands.									

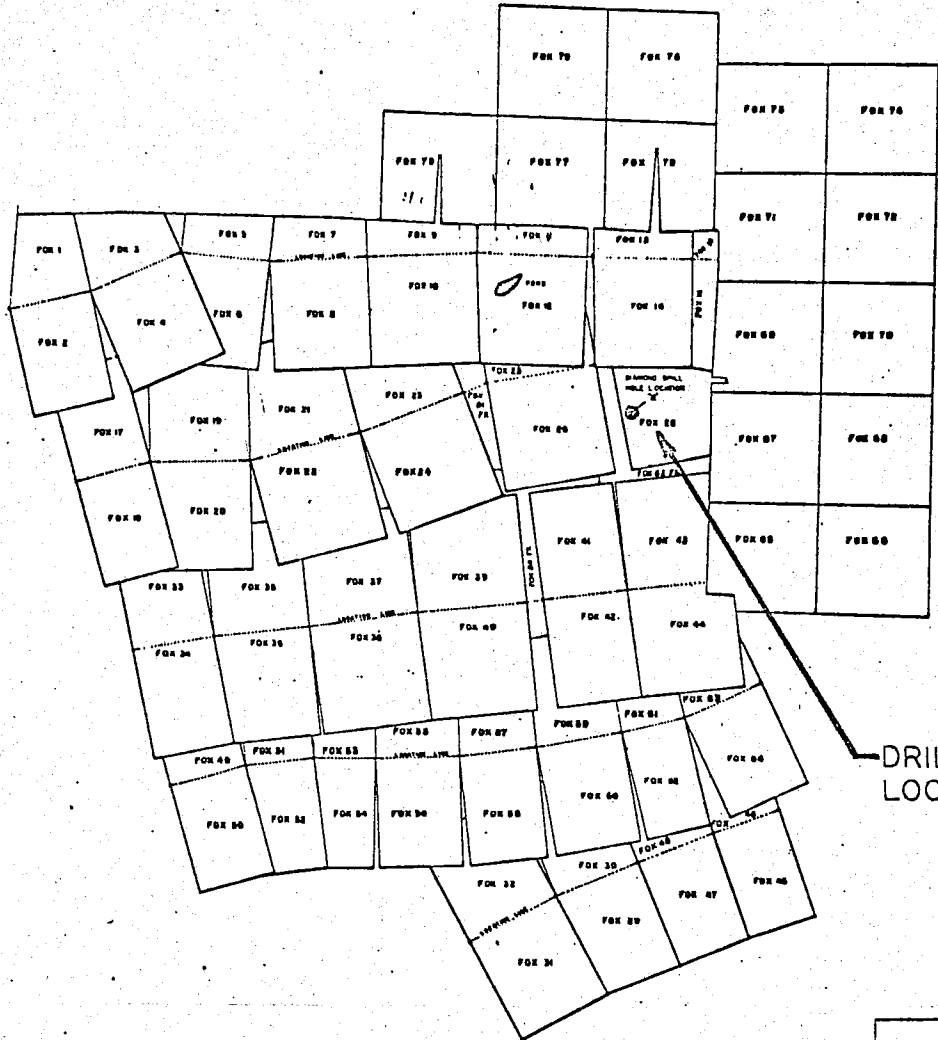
# Diamond Drill Sampling Record



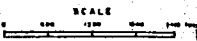
Core No.	CF-68-1	Sheet	5
Property	Length	Lat.	Hor. Comp.
District	Bearing	Dep.	Etch. at
Commenced	Dip	Elev.	True Dip
Completed	Objective	Location	
			Ver. Comp.
			Total Recovery %
			Logged by

Footage		Description	Shorts Feet	Sample No.	Length Feet	Analysis					Recovery %
From	To										
141.5	142	"S" folds with pyrite at the "noses". Fold axes 70 <sup>o</sup> 90 <sup>o</sup> .									
142	144	Bedding = cleavage with small (1/8-inch), calcite-filled gash fractures. Contorted, displaced (70 <sup>o</sup> shear) beds with very minor pyrite specks.									
144	146	Light chloritic phyllite is contorted and has minor blebs of pyrite in fold noses, localized in carbonate-rich bands of phyllite.									100
146	157	Massive grey light chloritic phyllite. Cleavage (shear) and bedding appear equivalent and range from 75 to 60 <sup>o</sup> .									100
157	160	Minor folds, displacement and pyrite zones.									90
160	167.5	Cleavage fairly uniform at 70 <sup>o</sup> with some bedding contortion at 163.5. At 167 small folds with displacement along shear.									
167.5	170	Bedding/cleavage approx. 70-75 <sup>o</sup> . Folding similar to 167 to 170.									
170	176	Bedding/cleavage approx. 60-65 <sup>o</sup> .									
176	178	Light grey chloritic phyllite. 176 sub-vertical calcite-filled gash fractures. 176.5 pyrite in "S" folds. There are other minor folds but generally the bedding/cleavage direction is 60 <sup>o</sup> .									90
178	182.5	Bedding/cleavage 65 <sup>o</sup> .									90
182.5	183	Light chloritic phyllite contains frequent calcite veins or bands which dip approx. 45 <sup>o</sup> . Bedding/cleavage 45 <sup>o</sup> .									90
183	189	Small "S" folds with minor vertical carbonate veins. Bedding/cleavage 80 <sup>o</sup> .									75





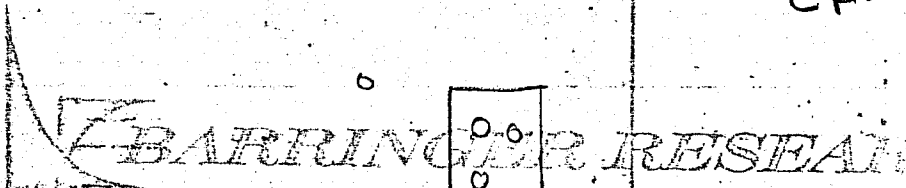
DRILL  
LOCATION



FOX GROUP, VANGORDA 619	
TOWN OF VANGORDA	
COUNTY OF VANGORDA	

Fox Group

CF-68-1



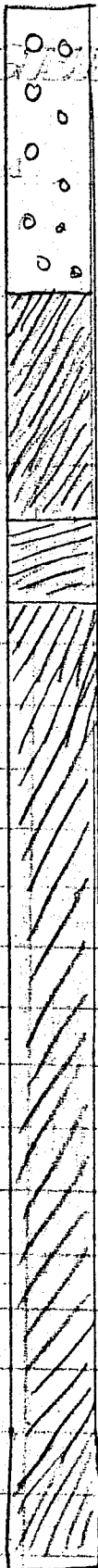
Frontier Explorations Limited  
1349 West 52nd Avenue  
Vancouver 9, B.C.

304 Carlingview Drive  
Rexdale, Toronto, Canada  
Phone: 677-2491  
Cable: Baresearch

Attention: Mr. E. O. Chisholm

REPORT NUMBER 7

SAMPLE NUMBER	Total Gt. pyrite Zn	
No. 1 Hole 1 50,0	73	
2 Hole 1 60'	94	
3 70'	85	100
4 80'	110	
5 90'	58	
6 100'	85	125
7 110'	82	
8 120'	70	
9 130'	52	150
10 140'	58	
11 150'	67	
12 159'	49	175
Mica Band 1/2" w. 25% fine pyrite		
13 160'	91	200
14 170'	75	
15 180'	82	
16 190'	88	218
17 200'	49	
18 210'	70	
19 218'	64	



grey chl. phyllite - calcareous.  
- veins & lenses of qtz - carbonate  
- fol. - 60-80°, steep folds,  
- dis. pyrite, py in qtz calcite.  
0-45° schistosity

- contorted phyllite, displacement, minor fols.  
pyrite in qtz-calcareous bands.  
- folds, wave length of ~ 6"

60-70°

5' fols, pyrite at noses.

limy chloritic phyllite.

- carbonate veins < 8"

45°-90°