

L245 ; 10+60W

Diamond Drill Record				HOLE NO86-AOR-FG2 Page 1 of 6	
LOCATION: FRENCH GULCH		DIPS - collar 55 °		CONTRACTOR: Arctic Diamond Drilling	
AZIMUTH: 0.50°		- 410 m ft 61 °		LOGGED BY: S. Tomlinson	
ELEVATION:		-		DATE: Aug 23, 1986	
LENGTH: 529.5 FEET		-		SECTION NO. RON CLAIMS	
CORE SIZE: n Q		-		STARTED: AUGUST 21, 1986 (approximately 7:00 a.m.)	
PURPOSE: SEARCH OUT FAULT STRUCTURES AT MOUTH OF FRENCH GULCH				COMPLETED: AUGUST 24, 1986 (approximately 6:00 a.m.)	

Section		ROCK DESCRIPTION	Interval		ALTERATION, MINERALIZATION etc.	VEINLETS		
from m ft	to m ft		from m ft	to m ft		Thickness mm	Angle to core	minerals in decreasing abundance
0	41.5	Casing - no core.						
41.5	49.5	Quartz muscovite schist. Dark green muscovite lamellae to 3 mm thick interlayered with milky foliaform quartz to 5 mm thick. Schistosity to C.A.: 83°, with minor crenulations. Recovery 41.5 to 83.5 = 100%.			Rock is competent. 1% small (1 mm) euhedral pyrite crystals and globules parallel schistosity.			
49.5	55	Quartz chlorite schist. Black chlorite lamellae to 10 mm thick interlayered with milky foliaform quartz to 5 mm thick. Schistosity to C.A. = 83°.	53	54	Thin (1 mm) irregular crosscutting veinlets, milky quartz. Rock is competent. Slight shearing, rock is crushed.			
55	60	Quartz carbonaceous schist. Approximately 70% of rock is graphitic, with lamellae and pods of milky quartz to 2 cm thick. Schistosity to C.A. = 061°, crenulated.			Rock is moderately competent, broken into approximately 2 cm thick sections. Minor (less than 1%) pyrite, euhedral crystals to 5 mm.			

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Section		ROCK DESCRIPTION	Interval		ALTERATION, MINERALIZATION etc.	VEINLETS		
from mft	to mft		from mft	to m ft		Thickness mm	Angle to core	minerals in decreasing abundance
60	81	Quartz muscovite schist. Schistosity to C.A.: 64°. Foliaform quartz lenses to 10 mm thick commonly tightly folded in core. Up to 60% of rock is quartz.			Rock is competent. Small (less than 1 mm) euhedral pyrite make up to 3% of the rock, somewhat alligned along schistosity with quartz.			
81	114	Dark green chlorite - quartz schist with low % muscovite. Recovery - 83.5 - .93 = 6.5'/9.5' 93 - 101.5 = 100% 101.5 - 110 = 4'/8.5 110 - 116 = 2/6	110	114	Less than 1% disseminated pyrite throughout, but in places up to 2% of core. Shear - roughly 1 foot of core extracted from section, clayey, 5% quartz particles to 5 mm diameter, mildly carbonaceous in places. Appears to mark a chlorite to muscovite schist contact.			
114	123	Quartz muscovite schist. Moderately broken core with up to 30% quartz bands. Schistosity to C.A. = 78°. Schistosity quite irregular with highly crenulated quartz bands.			Less than 1% visible sulfide throughout section.			
123	145	Recovery 116' to 280' = 100% Muscovite quartzite. Differentiated from above by higher percent quartz (to 70%) Light grey-green colour. Banding to core axis = 78°.			Calcite common along fracture surfaces as thin coatings. Less than 0.5% pyrite.			
145	167	Quartz muscovite schist. Foliaform quartz banding to 5 cm wide, roughly 20% of core. Minor crenulations. Schist to C.A. = Average 75°.	145	149	Less than 1% pyrite. Quartz augens to 5 mm diameter give spotted texture to core where no banding is visible.			

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Section		ROCK DESCRIPTION	Interval		ALTERATION, MINERALIZATION etc.	VEINLETS		
from mft	to mft		from mft	to mft		Thickness mm	Angle to core	minerals in decreasing abundance
167	213	Mildly carbonaceous schist; muscovite and/or chlorite. Dark grey color, quite evenly textured throughout; moderately crenulated with 40% quartz; 60% mafics. Schistosity to C.A. = 64°.	at	211	1% pyrite as disseminated globules (euhedral) 10 cm quartz vein or pod, translucent, with few grains of pyrite.			
			at	205	Brecciation within an extremely crenulation 5 inch section of core, syn-metamorphic brecciation. Overall less than 1% pyrite, but up to 5% in localized area. Stringer sulfide appears to cross- cut schistosity in one or two places. Coarse pyrite crystals align parallel to schistosity along margins of quartz bands.			
213	224	Chlorite quartz schist with up to 20% quartz bands. Dark green color. Schistosity to C.A. = 78°.						
224	226	Quartz muscovite schist. Quartz augens to 10%. Finely laminated. Schistosity angle = 64°.			Little visible sulfides (less than 1%).			
226	229	Muscovite quartzite. Light grey- green color. 70 to 80% quartz matrix with fine bands of micas. Schistosity to core axis = 89°.			Less than 1% visible pyrite as disseminated globules. Several stringers of pyrite cross- cuts core as fracture infills.			
229	281.5	Chlorite quartz schist. + (muscovite in places). Finely banded. Foliaform quartz forms bands to 2 cm width, up to 5% of core. Schistosity to core = 85° average. Schistosity is convoluted in several places.	at	235	6" of brecciation, gradational on upper contact, sharp contact on lower, quartz fragments in dark grey matrix, fragments to 2 cm diameter. Less than 1% pyrite overall, but stringers of pyrite parallel schistosity adjacent or within quartz bands with up to 40% pyrite along a given surface.			

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Section		ROCK DESCRIPTION	Interval		ALTERATION, MINERALIZATION etc.	VEINLETS		
from dft	to dft		from dft	to dft		Thickness mm	Angle to core	minerals in decreasing abundance
281.5	282.5	Breccia - quartz clasts to 4 cm diameter set in a graphitic chlorite quartz matrix. Contact (upper) = 85° to C.A. Recovery: 280' to 300' = 19'/20' 300' to 310' = 100%			Pyrite smears on fracture surfaces (one), mostly associated to quartz clasts as irregular disseminate.			
282.5	310.5	Chlorite - quartz schist. Finely banded, medium green. Foliaform quartz pods up to 30 cm width. Quartz makes up to 30% of core. Schistosity/core angle = 77° average. Schistosity is highly convoluted in upper region, to paralleling core axis.			Calcite and mauve colored (potassium) mineralization along fracture surfaces. Fracture surfaces show some offset in core (1 or 2 inches?) Moderately fractured: longest section is approximately 15 cm. Minor serpentinization along fractures. Less than 1% pyrite, mostly as cubes less than 5 mm.			
310.5	373	Chlorite-quartz schist. Finely banded, dark green. Foliaform quartz pods up to 20 cm width. Quartz makes up 25% of core. Schistosity/core angle = 74° average. Schistosity is very convoluted towards bottom of section. Recovery: 310' - 370' = 100% 370' - 440' = 100%	337.5 334	343	Minor calcite along fractures. Fractures are serpentized, and fracturing may be very dense, so serpentinization is almost pervasive in quartz poor sections. 2 cm long cavity, infilled with crystal druse. Slightly brecciated zone, quartz forms clasts to 1 cm in a fine matrix, core adjacent is highly fractured. Pyrite is less than 1%, most is disseminated cubes to 5 mm, some occurs as very thin stringers parallel to and along the edge of the folioform quartz.			

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from mft	to mft		from mft	to mft		Thickness mm	Angle to core	minerals in decreasing abundance
373	437	Quartz muscovite schist. \pm chlorite, especially along fractures. Folioform quartz forms bands to 4 cm wide, roughly 10% of core. Schists to C.A.: 073°, occasionally convoluted.	319		Few flakes of Galena within foliaform quartz.			
			366		Globules of pyrite within epidote within foliaform quartz.			
			366	373	Medium grained epidote as stringers within foliaform quartz.			
			394.5	395.5	Quartz vein, milky, medium grained, lower contact: 35°, with coarse grained calcite making up 5% of vein.			
			424		2 cm wide foliaform quartz band with thin pyrite stringers and possibly a sphalerite stringer. Quartz is medium grained and 10% medium grained calcite			
437	440	Quartzite. Medium grained quartz plus 10% medium grained calcite with S/. chlorite/muscovite thin bands that are extremely convoluted. Quartzite has mottled appearance.	402.5		Possibly flakes of galena within foliaform quartz; fracture coating of fine grained pyrite and possibly chalcopyrite. Pyrite is less than 1% occurs as irregular stringers of (mostly) as disseminated grains. Medium to fine grained epidote as stringers in upper core length.			
					Minor disseminated globules of pyrite.			

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from mft	to mft		from mft	to mft		Thickness mm	Angle to core	minerals in decreasing abundance
440	511	Quartz muscovite schist + chlorite (minor) Finely banded. Quartz bands to 2 cm make up 10% of section. Quartz also forms augens to 2 cm, especially at top of section (first 5), may be discordant slightly. Schistosity to C.A.: 063-072°, minor crenulations.			In first 20, minor epidote bands and stringers. Calcite along fractures. Less than 1% pyrite, mainly finely disseminated crystals less than 2 mm but also as irregular stringers. Pyrrhotite as irregular 2 mm wide (maximum) stringer zone within folioform quartz.			
466	467	Minor brecciation zone, foliation poor, small fractures, quartz forms small (5 mm) augens. Recovery: 440-519.5 = 100%						
511	519.5	Chlorite quartz schist. Finely banded. Quartz bands to 7 cm wide, 5% of length, augens to 2 cm. Schistosity to C.A.: 77°, slightly convoluted.			Less than 1% finely disseminated pyrite crystals less than 1 mm.			
511	511.5	Brecciated, highly fractured, foliation is weak, augens are small (less than 1 cm) and irregular.						
518.5	519.5	Brecciated, foliation is weak, augens are small (less than 1 cm) and irregular.						