

LOCATION: L1+20W; 0+35N				Diamond Drill Record				HOLE NO 26-AOR-LSS		Page 1 of 4	
AZIMUTH: 200°		DIPS - collar 55 °		CONTRACTOR: ARCTIC DIAMOND DRILLING				PROPERTY: DAWSON ELDORADO-ARBOR			
ELEVATION:		- 280 Rft 61 °		LOGGED BY: P. GRUNENBERG				CLAIM NO.			
LENGTH: 290 FEET		- m °		DATE: SEPTEMBER 11, 1986				SECTION NO. LONESTAR LEASES			
CORE SIZE: n 0		- m °						STARTED: SEPTEMBER 8, 1986 6:30 p.m.			
PURPOSE: TO TEST AN INDUCED POLARIZATION CHARGEABILITY/RESISTIVITY ANOMALY								COMPLETED: SEPTEMBER 9, 1986 5:00 p.m.			
Section		ROCK		Interval		ALTERATION.		VEINLETS			
from Rft	to Rft	DESCRIPTION		from Rft	to Rft	MINERALIZATION etc.		Thickness mm	Angle to core	minerals in decreasing abundance	
0	8	Casing - no core									
8	150.5	Light grey-green quartz muscovite schist. 45% quartz 30% muscovite 5 - 10% chlorite 15% Others (carbonate) Contorted schistosity to both parallel and crossing core axis. Carbonate apparent from fizz (HCl) test, as part of matrix. Recoveries: 13.5 - 20 = 6/6.5 20 - 30 = 9.5/10 30 - 40 = 9.5/10 40 - 45.5 = 5/5.5 45.5 - 53 = 3/7.5 53 - 80 = 100% 80 - 89 = 4.5/9 89 - 238.5 = 100%		8	63	Less than 1% pyrite throughout mainly as coarse cubes distributed evenly throughout. Oxidized zone, rusty orange colored, majority of sulfides oxidized out including those in quartz vein (below). Quartz vein or pod, translucent to milky white, vugs with limonitic (anglesite) coatings apparently once filled with sulfide (py Ga?). Shear - clayey, sericitic section of brown (earthy) core, broken up fragments of both quartz (10%) and schists (90%). Quartz vein or pod; white colored translucent quartz with pyrite crystals to 8 mm diameter often associated with a minor amount of galena, and unassociated galena (Ga 40%, Py 60%) to a total amount of sulfides of about 1%. White carbonate coatings on some surfaces.					
				39.5	41						
				82	89						
				130.5	131.5						

Diamond Drill Record

HOLE NO. LS 5

Page 2 of 4

Section		ROCK DESCRIPTION	Interval		ALTERATION. MINERALIZATION etc.	VEINLETS		
from mft	to xft		from xft	to xft		Thickness mm	Angle to core	minerals in decreasing abundance
			133	133.5	Small shear much like that of 82 foot shear, but with less quartz and more clayey schist fragments.			
			145	150	Slight enrichment of coarse pyrite aligned parallel to quartz lamellae every 6 inches to 1 foot, may bring sulfides to 1.5% total.			
150.5	172	Dark green chlorite quartz schist. 50% chlorite 20% quartz 15% muscovite 15% carbonate (matrix) and others. Quartz lamellae or bands are highly contorted and cross core every 4 to 6 inches. Main part of core is very soft scratching, fairly equigranular.			Roughly 5% pyrite throughout with varying sizes of crystals, but majority fine grained, disseminated and as foliaform banding with a strong enrichments near quartz banding. Enriched zones of sulfide (to 25%) exist over some 1 foot sections, especially 158 to 159.5 feet; and 169 to 171.5 feet which has low % chalcopyrite.			
172	199	Light grey quartz muscovite schist. 50% quartz 35% muscovite 5% chlorite 10% others, includes low % carbonate in matrix. Contorted schistosity to augens of 1 cm diameter.			5% sulfides throughout, mostly coarse grained subhedral pyrites, disseminated, with slight alignment along schistosity, minor visible galena to 1% locally, less than 1% throughout. Few thin bands of brown colored material?, phlogopite or sphalerite.			

Diamond Drill Record

HOLE NO. LS 5

Page 3 of 4

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
199	208.5	Dark green chlorite, muscovite quartz schist. Chlorite - 50% Muscovite - 20% Quartz - 20% Others including carbonate in matrix - 10% Nearly equigranular throughout section with only few thin highly contorted lamellae of quartz.			10% pyrite throughout core mostly as fine disseminate with mild alignment to schistosity, and some coarse anhedral blebs to 1 cm diameter. Galena to less than 1% seems to be more visible around areas of quartz lamellae, especially near the 206 foot level.			
208.5	260	Light grey-brown-green quartz mica schist. 30 - 50% quartz lamellae and interstitial, roughly 50° to core axis. 20 - 30% muscovite and/or phlogopite (brown colored). 50 to 80% others, including some carbonate. Sections of core are finely granular with quartz and phlogopite and/or sphalerite grams. Core breaks parallel to axis, i.e., schistosity angle of near zero towards end of section.	225	239	Pyrite throughout to 10% of core as coarse subhedral and medium to fine euhedral grains. Galena to 1% in places, especially near 218 foot level where 2 - 3 cm wide calcite quartz veinlets crosscut. Schistosity in core (smithsonite) Brown colored areas appear to be sphalerite to 5% in most of core Sphalerite rich horizon with up to 35% brown colored, soft, fine grained nearly massive sphalerite, bubbles under HCl with H ₂ S gas (smells). Several crosscutting thin stringers of green carbonate (smithsonite) cut core at several locations. Mild shear: core broken up, slightly clayey.			
			248	249				

Diamond Drill Record

HOLE NO. LS 5

Page 4 of 4

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
260	265.5	Medium green chlorite, quartz muscovite schist. Chlorite - 40% Quartz - 30% Muscovite - 20% Others - 10% Contorted quartz lamellae of 1 cm width every 6 or 8 inches along core. Pools of various colored micas around augens of quartz. Recovery: 238.5 - 248.5 = 9.5/10 248.5 - 273.5 = 100% 273.5 - 282.5 = 7.5/9 282.5 - 290 = 100%			Pyrite throughout to 5% as coarse disseminated and large blebs with strong alignment to schistosity, sphalerite auricles common around some of the coarser blebs. Sphalerite may make up to 20% of sulfides as fine disseminate. Galena grains few and far between.			
265.5	290	Light grey-green quartz muscovite schist. Quartz - 45% Muscovite - 35% Chlorite - 10% 10% others (minor carbonate). Schistosity roughly parallels core axis.	279	282.5	5% pyrite throughout as coarse blebs and disseminate with some alignments (stringer-like) along schistosity. Up to 10% of sulfides as sphalerite, medium grained reddish resinous, small irregular globules, common near pyritiferous areas. Galena grains few and far between, small isolated grains. Mild shearing: clayey, broken fragmental core majority of which is schist fragments (little quartz). Pyrite to 5% (reflects origin schist composition).			