Diamond Drill Record

LOCATION: MOUTH BEAR CREEK			HOLE NO. 86 KLN 1 — Page 1 of 3
AZIMUTH: 018°	DIPS – collar 80 °	CONTRACTOR: ARCTIC DIAMOND DRILLING	PROPERTY: ARBOR-KLON
ELEVATION:	– 337 ~~m~~ft 85 °	LOGGED BY: WENDY SISSON	CLAIM NO. 30
LENGTH: 337 FEET	– m °	DATE: DECEMBER 2, 1986	SECTION NO. SNAKE
CORE SIZE: n Q	– m °		STARTED:
PURPOSE: GEOLOGY TEST HOLE/LITHO-GEOCHEM. FOLLOW-UP			COMPLETED:

Section from ~~m~~ft	Section to ~~m~~ft	ROCK DESCRIPTION	Interval from ~~m~~ft	Interval to ~~m~~ft	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
0	63	Casing						Recovery: 63 - 66 = 3' 66 - 72 = 5' 72 - 73 = 0.5' 73 - 75 = 1' 75 - 77 = 0.5' 77 - 81 = 1.5' 81 - 84 = 2' 84 - 88 = 1/4' (mislatch) 88 - 94 = 1' 94 - 96 = 0.5' 96 - 104 = 3' 104 - 112 = 112 - 120 = 2.5' 120 - 126 = 6' 126 - 220 = 100%
63	228	Black Graphitic Schist. Black, fine grained, well foliated rock, sooty along fracture surfaces. Platy fracture paralleling foliation surfaces. Rock has fine compositional layers averaging 1 mm in thickness. Layers are composed of quartzitic carbonaceous material and contrasting graphitic layers. Layers have angles to C.A. of 60° - 75° with angles up to 30° locally. Layering is contorted into minor, open warps as well as localized sections of isoclinal structures parallel to foliation. Unit appears fairly competent with layering remaining consistent throughout. Foliation surfaces show at least 2 distinct lineations, as crenulations.	63	228	Pyrite as blebby concentrations (approximately 1%) and as minor disseminations (approximately 1%) throughout section. Pyrite also seen as euhedral to subhedral crystals up to 1 cm accross, (much less than 1%), possibly authigenic(?). Quartz veining and veinlets parallel to foliation, up to 1 foot thick, averaging 2 - 3 inches thick. Opaque to translucent white quartz with creamy opaque carbonate (approximately 3 - 5%) Veining approximately 5% of section. Veins carry very minor disseminated pyrite (less than 1%). Angular fragments of host rock in thicker veins, note chloritic selvages on fragments. Quartz and carbonate also seen as fine stringers, approximately 1 mm thick, parallelling and crosscutting foliation.			

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Section from ft	Section to ft	ROCK DESCRIPTION	Interval from ft	Interval to ft	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
136	145	Shear zone within schist. Fragment supported breccia of graphitic schist fragments 95% and quartz vein fragments (5% of breccia). Minor graphitic matrix material. Fragments up to 3 inches across, averaging 1 inch across. Also have quartz veins unaffected by brecciation crosscutting zone.	125	145	Section with extensive quartz veining, parallel to foliation. Veins 3 - 12 inches thick, approximately 35% of section. Quartz veins have minor carbonate (3 - 5%). Minor pyrite less than 1%.			
228	337	Quartz Graphite Schist. Fine grained, well foliated rock with banded appearance, dark grey and black layers. Quartz rich carbonaceous layers become more prominent, up to .5 cm thick, average .2 - .3 cm, making up 60% of section. Graphitic layers, .1 - .2 cm thick, (40% of section). Layers show moderate deformation into open and tight minor folds crosscut by graphitic partings paralleling axial planar surfaces. Angles to C.A$_\delta$ is 55° - 60° varying to 20° locally. Rock is competent with platy fracture along surfaces parallel to foliation.			Quartz veining becomes extensive with foliaform veins and lenses comprising approximately 30% of section. Veins average 2 - 4 inches thick up to 1 foot thick. Veins are composed of opaque to translucent white quartz with cream opaque carbonate, (10 - 15% of vein). Minor brecciated host rock form angular fragments in veins, (less than 5%), fragments up to 2 inches across, average 1/2 inch. Minor vuggy/drusy quartz noted at 286 feet. Veins carry only minor pyrite, (less than 1%), as disseminations. Pyrite in host schist is seen as euhedral to subhedral pyrite crystals, up to 2.5 cm across, averaging 1 - 1.5 cm.			Recovery: 220 - 224 = 2.5' 224 - 231 = 7' 231 - 233 = 1' 277 - 281 = 2' 281 - 337 = 100%

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Section		ROCK	Interval		ALTERATION,	VEINLETS		
from m/ft	to m/ft	DESCRIPTION	from m/ft	to m/ft	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
308	337	Layers appear more intensily deformed with	228	337	Pyrite approximately 2% throughout with localized sections with up to 7% pyrite.			
333	337	Rock appears intensily fragmented and deformed. Note fragments of schist and quartz veins in fragment supported breccia. Appears healed, partially silicified.			Weak pressure solution shadows of quartz fringe pyrite edges. Many quartz and carbonate stringers crosscut and parallel foliation, (less than or equal to 1 mm) approximately 1 - 2%.			
			308	337	Foliaform quartz becomes strongly deformed with layering. Appears now as discontinuous, contorted lensoid shapes.			
			331	337	Pyrite crystals 7 - 10% of section up to 2.5 cm long.			

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Assay Data Sheet

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From ft	To ft	Length ft	Ag ppm	Au ppb	Au oz FA	Cu %	Cu ppm	Fe%	Zn ppm	Pb ppm	Rock	Sample Number		
63	67	4									bgs	36688G		
67	72	5									bgs	36689		
72	81	9									bgs	36690		
81	88	7									bgs	36691		
88	103	5									bgs	36692		
103	120	17									bgs	36693		
120	125	5									bgs	36694		
125	129	4									bgs	36695		
129	132.5	3.5									bgs	36696		
132.5	136	3.5									bgs	36697		
136	140.5	4.5									shear	36698		
140.5	145	4.5									shear	36699		
145	150.5	5.5									bgs	36700		
150.5	155	4.5									bgs	36701		
155	159	4									bgs	36702		
159	164	5									bgs	36703		
164	168	4									bgs	36704		
168	172.5	4.5									bgs	36705		
172.5	177	4.5									bgs	36706		
177	182	5									bgs	36707		
182	186	4									bgs	36708		
186	191	5									bgs	36709		
191	196	5									bgs	36710		
196	200	4									bgs	36711		

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From m ft	To xx ft	Length xx ft	Ag ppm	Au ppb	Au oz FA	Cu %	Cu ppm	Fe%	Zn ppm	Pb ppm	Rock	Sample Number		
200	204	4									bgs	36712G		
204	208.5	4.5									bgs	36713		
208.5	213	4.5									bgs	36714		
213	217.5	4.5									bgs	36715		
217.5	221.5	4									bgs	36716		
221.5	228	6.5									bgs	36717		
228	231	3									qgs	36718		
231	237	6									qgs	36719		
237	241	4									qgs	36720		
241	245	4									qgs	36721		
245	250	5									qgs	36722		
250	254	4									qgs	36723		
254	258	4									qgs	36724		
258	263	5									qgs	36725		
263	267	4									qgs	36726		
267	272	5									qgs	36727		
272	276	4									qgs	36728		
276	282	6									qgs	36729		
282	286.5	4.5									qgs	36730		
286.5	290.5	4									qgs	36731		
290.5	295	4.5									qgs	36732		
295	299.5	4.5									qgs	36733		
299.5	304	4.5									qgs	36734		
304	308	4									qgs	36735		

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From ~~m~~ ft	To ~~m~~ ft	Length ~~m~~ ft	Ag ppm	Au ppb	Au oz FA	Cu %	Cu ppm	Fe%	Zn ppm	Pb ppm	~~As ppm~~ Rock	Sample Number		
308	312.5	4.5									qgs	36736		
312.5	317	4.5									qgs	36737		
317	318	1									Qtz veir	36738		
318	321	3									qgs	36739		
321	326	5									qgs	36740		
326	330.5	4.5									qgs	36741		
330.5	337	6.5									qgs	36742G		