

HUNKER CREEK

Diamond Drill Record

HUNKER CREEK				Diamond Drill Record				HOLE NO. SST 4		Page 1 of 6	
LOCATION: at last chance											
AZIMUTH: 240				DIPS - collar 60 °				CONTRACTOR: ARCTIC DIAMOND DRILLING		PROPERTY: SILVER SCEPTRE	
ELEVATION:				- m °				LOGGED BY: WENDY SISSON		CLAIM NO. F	
LENGTH: 496 FEET				- m °				DATE: DECEMBER 14, 1986		SECTION NO. ALPHA	
CORE SIZE: n Q				- m °						STARTED:	
PURPOSE: TO TEST FOR FAULTING ALONG THE SOUTH BANK OF HUNKER CREEK								COMPLETED:			
Section		ROCK		Interval		ALTERATION.		VEINLETS			
from ft	to ft	DESCRIPTION		from ft	to ft	MINERALIZATION etc.		Thickness mm	Angle to core	minerals in decreasing abundance	
0	74.5	Casing								Recovery:	
74.5	432	Biotitic Graphite Quartz Schist. Black, fine grained well foliated rock, fairly competent. Rock has compositional segregations/layering composed of contrasting graphitic and quartz-rich material (plus Kspar?) Quartz-rich layers are .1 to .5 cm thick on average and compose approximately 35 - 40% of section. These layers increase in number towards base to compose 60 - 65% of section towards base. Quart-rich layers are commonly discontinuous and highly distorted. Majority of rock is comprised of schistose, platy graphite layers, averaging .1 to 1 cm thick, comprising 60 - 65% of section at top, decreasing to 35 to 40% at base. Compositional layering is intensely deformed with tight folding commonly over turned within plane of foliation, these		74.5	130	Shear Zone. (074 to 108 foot recovery, core is badly broken and ground). Strongly fractured graphitic schist, also appears fragmented locally by quartz carbonate veining, (approximately 15 - 25% of section?). Veins carry host rock fragments .1 to 3 cm across, angular. Veins are made up of white opaque to translucent quartz (approximately 65%), creamy white carbonate (approximately 25%) and host rock fragments (approximately 10%). No visible mineralization noted. Veins have weakly developed, vuggy cavities within carbonate, carbonate held within surrounding quartz. Shear zone continues into friable, fragmental section. Gaugy, clay-rich matrix holds fragments of sub-rounded to angular pieces of graphitic schist (90% of fragments) and				74.5 - 79 = 2' 79 - 81 = 2' 81 - 83 = 1' 83 - 87.5 = 1.5' 87.5 - 92 = 0.5' 92 - 94 = 0.5' 94 - 99 = 1' 99 - 102 = 0.5' 102 - 107 = 0.5' 107 - 108 = 0.5' 108 - 112 = 3' 112 - 116 = 2' 116 - 120 = 4' 120 - 123 = 1.5' 123 - 132 = 2.5' 132 - 135 = 2.5' 135 - 137 = 1.5' 137 - 143 = 6' 143 - 148 = 4.5' 148 - 151 = 1' 151 - 153 = 2' 153 - 157 = 3' 157 - 163 = 7' 163 - 232 = 100% 232 - 237 = 4.5' 237 - 310 = 100% 310 - 411 = 100%	
				74.5	108						
				108	130						

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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
332	432	<p>structures are seen to be further distorted by subsequent deformation.</p> <p>A second graphite rich cleavage crosscuts compositional layering causing crenulations and lineation development on foliation surfaces.</p> <p>Biotite occurs as dark brown fine grained, flaky mica developed along foliation surfaces within graphitic material.</p> <p>It appears as discontinuous blebby to streak-like concentrations.</p> <p>Also noted weakly developed along fracture surfaces as disseminations and blebby concentrations with serpentine-like mineral.</p> <p>Also noted along crosscutting cleavage surface.</p> <p>Biotite comprises 3% average but gradually decreases within the graphitic schist after 350 feet.</p> <p>At 385 feet, biotite not noted to end of section.</p> <p>Note after 332 intermittent sections of quartzose biotite rich graphitic rock, biotite approximately 20%</p>	130	432	<p>vein material (10% of fragments). Fragments are .1 to 1 cm in size and make up 90% of section. Zone fragment supported.</p> <p>Throughout zone, pyrite weakly disseminated, less than or equal to 1%.</p> <p>Pyrite is poorly developed throughout, weakly disseminated (less than or equal to 1%).</p> <p>Near base of section have short localized intervals bearing foliaform, blebby concentrations of pyrite (1 - 2%).</p> <p>Note more massive biotitic sections within graphitic schist (see below) are higher in pyrite, (approximately 2 - 3%) disseminated throughout.</p> <p>Quartz carbonate veining noted throughout section, (approximately 1 - 2%) of total, averaging 2 - 5 cm in thickness. Veins are made up of white opaque to translucent quartz (approximately 90%) with lesser creamy white carbonate within quartz (approximately 20%).</p> <p>Veins are predominantly foliaform, seen to pinch and swell with layering, occasionally fragmented.</p> <p>Also note discontinuous biotite selvage along vein contact with host rock.</p> <p>Veins of 1 foot or greater occur at: 232 - 233 feet.</p>			<p>411 - 416 = 4.5'</p> <p>416 - 496 = 100%</p>

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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
		<p>Grey, fine grained, weak schistosity, foliated, massive in appearance.</p> <p>Foliation defined by partings, (commonly discontinuous), of grey carbonaceous material with well developed streaky biotite, these layers are ill-defined as single segregations but are pervasively scatter through rock giving a "flecky" appearance to section.</p> <p>Majority of rock appears to be silicified with minor graphite scattered within quartzose ground-mass.</p> <p>Sections have distorted lenses of quartz vein material (possibly pre-metamorphic?) with biotitic fringes along their contacts.</p> <p>These sections may be higher grade equivalents to surrounding graphitic schist? or silicified?</p> <p>Sections greater than 1 foot:</p> <p>332 - 337.5 foot</p> <p>362 - 363 foot</p> <p>382 - 382.5 foot</p> <p>In total these intervals comprise approximately 2% of section.</p> <p>Graphitic schist becomes more quartzose towards base of section with increase in quartz-rich layering and quartz becoming prevalent within graphitic layers.</p>	412.5	424	<p>Throughout section note waxy, pale green, serpentine like mineral developed as fine layers along foliation surfaces and fractures.</p> <p>Very soft, no distinct mineral form, translucent or resinous appearance.</p> <p>Pervasive throughout, 3 - 5%, also seen to form minor foliaform stringers and cross-cutting also .1 - 2 mm thick.</p> <p>Graphitic schist with well developed mariposite along foliation and fracture surfaces.</p> <p>Bright green-blue, platy mineral forming partings less than .1 - .2 cm thick, approximately 5 - 10% of section.</p> <p>Section appears to be carbonate-rich also, along foliation and fractures as stringers (carbonate approximately 5 - 7%).</p> <p>Weakly developed disseminated pyrite, approximately 1% of section</p> <p>Graphitic shear zone.</p> <p>Black sooty friable rock with rounded to sub-angular fragments in gaugy, clay-rich matrix.</p> <p>Fragments average .1 to 1 cm in size and are made up of 90 - 95% graphitic schist, 5 - 10% quartz veining material.</p> <p>Fragments comprise approximately 70% of section, zone is largely fragment supported.</p> <p>Pyrite disseminated throughout (approximately 2 - 3%).</p>			

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Section		ROCK DESCRIPTION	Interval		ALTERATION, MINERALIZATION etc.	VEINLETS		
from Hft	to Hft		from Hft	to Hft		Thickness mm	Angle to core	minerals in decreasing abundance
			420	424	Badly fractured graphitic schist with graphitic gangy material developed along fractures, self supporting. Pyrite as blebby, foliaform concentrations (approximately 3%) blebs average .2 to .5 cm across.			
			130	432	Throughout section note intermittent short zones of badly fractured, friable rock with clay rich material developed along fractures. Intervals greater than 1 foot are: 148 - 151 ft. (poor recovery) 257 - 258 ft. 279 - 282 ft. 365 - 374 ft.			
432	454	Siliceous Quartz Muscovite Schist with minor graphite. Fine grained, white to pale grey rock, foliated, massive in appearance. Competent rock. Compositional layering defined by quartz rich layers, .3 to 1 cm thick on average, comprise 80% of section. Muscovite rich layers and partings .1 to .3 cm thick average approximately 20% of section.			Weak mariposite developed along fracture surfaces with muscovite (approximately 1% of section). Quartz and carbonate stringers crosscut and parallel foliation, also as partings along fractures (2 - 3% of section). Pyrite developed as foliaform, blebby concentrations and fine stringer (approximately 2 - 3%), also noted along fracture surfaces. Sericite and minor clay development seen on fracture surfaces.			416 - 496 = 100%

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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
		<p>Muscovite layers are also noted to carry minor graphitic partings, approximately 5% total. Layering is moderately distorted with</p> <p>Section noted to have interlayers of graphitic schist, (as above) at:</p> <p>447.5 - 449 ft.</p> <p>450 - 454 ft.</p> <p>Contact with overlying unit is diffuse with muscovite and graphitic schist interlayered between 428 and 432 feet. Rock may possibly be affected by secondary silicification.</p>	450	452	<p>Graphitic shear zone/within graphitic interlayer. Rounded to subangular fragments, .2 to 1 cm held in graphitic, clay rich matrix. Fragments comprise 70% of section are made up of graphitic schist rock and minor quartz vein material. Zone is fragment supported. Pyrite disseminated throughout and as blebby concentrations up to 1 cm across, (approximately 3% of section).</p>			
454	474.5	<p>Quartzite. White to light grey, fine grained massive, competent rock. Foliation moderately defined by minor muscovite partings averaging .1 mm thick, (approximately 5 - 10%) of section and weak banding caused by contrasting grey and white quartz rich layers. Quartz rich layers are .5 to 1 cm thick on average, 90 - 95% of section (suspected to carry Kspar). Layers show weak distortion with</p>			<p>Pyrite well developed as folia-form, blebby, lensoidal concentrations throughout section, averaging (.2 x .5) cm in size. Pyrite comprises approximately 3 - 5% of section. Weak quartz carbonate stringers crosscut and parallel foliation, approximately 1% of section. Minor mariposite noted on some muscovitic partings, less than or equal to 1% of section. Minor clay development along fracture surfaces.</p>			416 - 496 = 100%
471.5	473	<p>Mineral lineation defined along muscovite partings. Interlayer of black graphitic schist.</p>						

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Section		ROCK DESCRIPTION	Interval		ALTERATION, MINERALIZATION etc.	VEINLETS		
from ft	to ft		from ft	to ft		Thickness mm	Angle to core	minerals in decreasing abundance
474.5	490.5	Siliceous Quartz Muscovite Schist with minor graphite. Pale green, fine grained, well foliated rock, competent. Compositional layering defined by quartz rich layers averaging .3 to .5 cm thick, approximately 70% of section separated by muscovite layers .1 to .3 cm thick on average, approximately 30% of section. Layering is moderately distorted with Rock has platy fracture along cleavage. Minor graphite found with muscovite in localized sections i.e., 483 - 486 ft. (-found as fine partings, less than or equal to 5% of section).	483	484	Muscovite layers affected by weak sericitic/clay alteration, also seen along fractures. Pyrite weakly disseminated through section, approximately 1%. At 483 note well developed pyrite as foliaform, blebby concentrations up to 2 cm long, 3 - 5% over short section (very localized). Quartz carbonate stringers noted crosscutting parallel to foliation, approximately 1% of section.			416 - 496 = 100%
490.5	496	Quartzite. Massive, pale grey unit, fine grained. Foliation outlined by weak banding due to contrasting white and grey quartzose layers. White layers .2 cm on average (approximately 20% of section), grey layers 1.0 cm on average, (approximately 80% of section). Very minor muscovite partings approximately 5% of section, averaging .1 cm thick. Rock has blocky, coarse fracture. Layers are weakly distorted,			Pyrite as blebby foliaform stringers and disseminated throughout, approximately 3% of section. Also noted developed along fractures and within quartz carbonate stringers. Minor quartz carbonate stringers crosscut and parallel foliation, approximately 1% of section. Small vugs are developed in association with stringers of carbonate, average size .2 x 1 cm, less than or equal to 1% of section. At 492 to 493, foliaform pyrite blebs up to 2 cm x .4 cm in size.			416 - 496 = 100%

86 SST #4

Assay Data Sheet

HOLE NO SST #4			Page 1 of 4	
Assay Rock	Sample Number			
shear	37121G			
shear	37122			
shear	37123			
shear	37124			
shear	37125			
shear	37126			
bgqs	37127			
bgqs	37128			
bgqs	37129			
bgqs	37130			
fracture zone	37131			
bgqs	37132			
bgqs	37133			
bgqs	37134			
bgqs	37135			
bgqs	37136			
bgqs	37137			
bgqs	37138			
bgqs	37139			
bgqs	37140			
bgqs	37141			
bgqs	37142			
bgqs	37143			
bgqs	37144			

Assay Data Sheet

											HOLE NO	SST #4	Page 2 of 4	
From m ft	To m ft	Length m ft	Ag ppm	Au ppb	Au oz FA	Cu %	Cu ppm	Fe%	Zn ppm	Pb ppm	Assay Rock	Sample Number		
212	216.5	4.5									bgqs	371456	vein	
216.5	221	4.5									bgqs	37146		
221	224.5	3.5									bgqs	37147		
224.5	229	4.5									bgqs	37148		
229	232	3									bgqs	37149		
232	233	1									qtz	37150		
233	239.5	6.5									bgqs	37151		
239.5	245	5.5									bgqs	37152		
245	252	7									bgqs	37153		
252	255.5	3.5									bgqs	37154		
255.5	259	3.5									bgqs	37155		
259	264.5	5.5									bgqs	37156		
264.5	269	4.5									bgqs	37157		
269	274	5									bgqs	37158		
274	279	5									bgqs	37159		
279	282	3									fractured	37160		
282	287	5									bgqs	37161		
287	292	5									bgqs	37162		
292	296.5	4.5									bgqs	37163		
296.5	301	4.5									bgqs	37164		
301	305	4									bgqs	37165		
305	310	5									bgqs	37166		
310	314	4									bgqs	37167		
314	319.5	5.5									bgqs	37168		

Assay Data Sheet

Assay Data Sheet											HOLE NO	SST #4	Page 3	of 4
From xx ft	To xx ft	Length m ft	Ag ppm	Au ppb	Au oz FA	Cu %	Cu ppm	Fe%	Zn ppm	Pb ppm	As ppm Rock	Sample Number		
319.5	324	4.5									bgqs	371696	biotitic	
324	328	4									bgqs	37170		
328	332	4									bgqs	37171		
332	337.5	5.5									bgqs	37172		
337.5	341.5	4									bgqs	37173		
341.5	346	4.5									bgqs	37174		
346	351	5									bgqs	37175		
351	356	5									bgqs	37176		
356	360.5	4.5									bgqs	37177		
360.5	365	4.5									bgqs	37178		
365	369	4									fractured	37179	biotitic	
369	374	5									fractured	37180		
374	379	5									bgqs	37181		
379	382	3									bgqs	37182		
382	383.5	1.5									bgqs	37183		
383.5	387	3.5									bgqs	37184		
387	391	4									bgqs	37185		
391	394	3									bgqs	37186		
394	398	4									bgqs	37187		
398	402.5	4.5									bgqs	37188		
402.5	407	4.5									bgqs	37189	+ mari	
407	412.5	5.5									bgqs	37190	+ mari	
412.5	416.5	4									shear	37191		
416.5	420	3.5									shear	37192		

Assay Data Sheet

											HOLE NO	SST #4	Page 4	of 4
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		
420	424	4									shear	37193G		
424	428.5	4.5									bgqs	37194		
428.5	432	3.5									bgqs	37195		
432	436.5	4.5									sqms	37196	w graph	
436.5	441	4.5									sqms	37197	w graph	
441	445.5	4.5									sqms	37198	w graph	
445.5	450	4.5									sqms	37199	w graph	
450	452	2									shear	37200		
452	454	2									graph s	37201		
454	457	3									Qtzite	37202		
457	461	4									Qtzite	37203		
461	465	4									Qtzite	37204		
465	469.5	4.5									Qtzite	37205		
469.5	474.5	5									Qtzite	37206		
474.5	478	3.5									sil qms	37207	w graph	
478	482.5	4.5									sil qms	37208	w graph	
482.5	486.5	4									sil qms	37209	w graph	
486.5	490.5	4									sil qms	37210	w graph	
490.5	496	5.5									Qtzite	37211		