

SYLVESTER GRID

SURFACE DIAMOND DRILLHOLE : SY013

PROJECT IDEN : SYLVESTER START DATE : 31 OCT 91 COMPLETION DATE : 11 NOV 91 LOGGED BY: DAVID JOHN CROSSING  
 COLLAR NORTHING: 60640.88 COLLAR EASTING : 58189.00 COLLAR ELEVATION: 307.88 GRID AZIMUTH : 0.00  
 DRILLED BY : LONGYEAR TOTAL LENGTH : 154.50 CORE/HOLE SIZE : HQNU

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
000	0.00		180.00	-55.00	60640.88	58189.00	307.88
001	50.00		177.00	-58.80			
002	80.00		178.50	-58.00			
003	110.00		181.00	-58.00			

R HED This hole was drilled southward from the intersection of line 58200E and the abandoned Comstock tramway. The hole was designed to intersect the Balstrup fault and traverse Upper Donah sediments in its footwall, beneath an area of broad patchy base metal anomalism associated with ironstones. The hole was collared in Crimson creek turbidites, passing into Upper Donah melange, at about 30m (base of precollar). The hole passed through a siliceous pyritic fault breccia at 71.7 - 79.9m and entered highly strained strongly graphitised shales. Below 203.3m the hole remained in a broad puggy fault zone with shale remnants. The entire hole was in extremely difficult broken ground with consequent high core loss necessitating a change to NQ at 148m. As no carbonates had been intersected, and the ground conditions were continuing to deteriorate, the hole was abandoned.

	Interval	Rec.	RUD	Description	Unit
	From (m) To (m)	(m)	(m)		
	0.00 30.00			PRECOLLAR.	
	30.00 41.30			MELANGE: black, moderately graphitic, strongly sheared, gradational base, highly broken core, 0.1% disseminations of pyrite.	
R	34.60 36.30			Evidence of altered veining, corroded and brecciated - ferruginous.	
R	34.60 36.30			34.60 36.30 100% SILTSTONE: moderately limonitic, slightly bleached, bedded, sheared, veined, top contact: ca 40. bedding: ca 65, moderately broken core.	
	35.85 35.86			100% STRUCTURAL MEASUREMENT: fault: 054 / 28.	
	35.90 35.91			100% STRUCTURAL MEASUREMENT: fault: 030 / 55.	
	36.00 36.01			100% STRUCTURAL MEASUREMENT: bedding: 235 / 10.	

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 SURFACE DIAMOND DRILLHOLE : SY013 (CONTINUED)

	Interval From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
	41.30	41.60			FAULT: black, puggy, 1% disseminations of pyrite.	
	41.60	65.80			SILTSTONE: grey, limonitic, bedded, strongly sheared, veined, bedding: ca 70, moderately broken core, .03% veins of pyrite. Numerous small puggy faults/shears. Relict veins are leached / corroded and show evidence of sulphide mineralisation-pyrite. Flecks of muscovite common on foliation (?) surfaces in the more sandy beds.	
R	41.60	65.80			41.60 65.80 30% SANDSTONE: inter bedded, massive.	
R	41.60	65.80			46.00 47.40 100% SHALE: black, highly graphitic, bedded, moderately sheared, 70, brecciated base, puggy zones, 3 % disseminations of pyrite.	
R	41.60	65.80			53.00 65.80 90% SILTSTONE: highly limonitic, crumbly, highly broken core, 1% veins of quartz.	
R	41.60	65.80				
BOX	65.80	71.70			FAULT: black, puggy, poor recovery, highly broken core, 3 % disseminations = veins of pyrite, 50% massive/ semi - massive clay.	
					65.80 71.70 30% SANDSTONE WITH SILTSTONE: medium grey, intermixed, 5% veins of quartz.	
					65.80 71.70 20% MELANGE: black, intermixed, 5% veins of quartz, 3 % disseminations = veins of pyrite.	
	71.70	79.90			FAULT: highly silicified, massive, brecciated, brittle, highly broken core, 10% stockwork of pyrite, 3 % interstitial clay.	
	79.90	103.30			SHALE: black, moderately graphitic, fissile, remnant bedding, disrupted bedding, faulted, firm, highly broken core, 1% veins of carbonate, 3 % disseminations = veins of pyrite, 1% pyrite laminations of.	
R	79.90	103.30			Highly strained, locally intensely graphitised and fissile.	
R	79.90	103.30			Graphite is very platy. Cleavage is at about 50 degrees to bedding. Occasional puggy fault zones become more common downward.	
R	79.90	103.30			79.90 87.00 100% SHALE: black, moderately graphitic, fossiliferous, remnant bedding, cleaved, faulted, bedding, ca 30, cleavage: ca 35, firm, highly broken core, 1% veins of carbonate, 3 % disseminations = veins of pyrite, 1% pyrite laminations of.	
R	79.90	103.30			87.00 92.00 70% SHALE: black, exceptionally graphitic, fissile, indistinctly bedded, disrupted bedding, faulted. Fracture set: 45, firm, highly broken core, 1% veins of carbonate, 3 % disseminations = veins of pyrite, 1% pyrite laminations of.	

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	Interval From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
	103.30	123.00			SHEAR (ZONE): black, carbonaceous, puggy, crumbly, highly broken core, 3 % disseminations = veins of pyrite.	
R	103.30	108.50			Core is in poor condition, very broken crumbly. Fault material	
R	103.30	108.50			is generally soft puggy carbonaceous brecciated. Fabric is	
R	103.30	108.50			indistinct, poorly developed, generally at low angles to core	
R	103.30	108.50			axis (0-30 degrees).	
					103.30 108.50 30% SHALE: very dark grey, indistinctly bedded, remnant bedding, 1% disseminations = veins of pyrite.	
					114.70 114.90 100% SHEAR (ZONE): black, microfaults, sheared, remnant bedding, shear: ca 50, bedding: ca 05, crumbly, highly broken core, 10% laminations of pyrite.	
					118.50 123.00 100% SHEAR (ZONE): black, puggy, crumbly, highly broken core, 5% disseminations = veins of pyrite.	
	123.00	125.30			MASSIVE SULPHIDES: yellow, vuggy, massive, crumbly, highly broken core, 3 % interstitial quartz, 50% massive/ semi - massive pyrite.	
	125.30	147.20			SHEAR (ZONE): black, carbonaceous, puggy, basal contact: ca 45, shear: ca 25, crumbly, exceptionally broken core, 3 % veins of quartz, 3 % disseminations = veins of pyrite.	
R	125.30	147.20			Similar to interval 103.3 - 108.5m.	
					125.30 147.20 40% SHALE: black, indistinctly bedded, remnant bedding, disrupted bedding, brecciated, firm, highly broken core.	
	147.20	148.60			CLAY: white, 5% patches of pyrite.	
	148.60	152.80			SHALE: grey-black, massive, brecciated, basal contact: ca 55, hard, moderately broken core, 5% veins of quartz, 1% veins of siderite, 3 % disseminations of pyrite.	
	152.80	154.45			CLAY: white, basal contact: ca 60, 5% disseminations of quartz, 5% disseminations = veins of pyrite.	
END	154.45	154.50			SHALE: grey-black.	