R.G.C. Exploration Pty Ltd

SYLVESTER GRID

SURFACE DIAMOND DRILLHOLE : SY015

PROJECT IDEN :SYLVESTER START DATE : 5 FEB 92 COMPLETION DATE : 4 MAR 92 LOGGED BY:DAVID JOHN CROSSING
COLLAR NORTHING: 60836.80 COLLAR EASTING : 58192.98 COLLAR ELEVATION: 306.60 GRID AZIMUTH : 0.00
DRILLED BY : LONGYEAR TOTAL LENGTH : 412.50 CORE/HOLE SIZE : HQNQ

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
000	0.00		180.00	-55.00	60836.80	58192.98	306.60
001	22.50		182.00	-55.75			
002	60.00		181.50	-57.00			
003	103.50		181.00	-57.30			
004	147.00		182.50	-58.00			
005	176.50		182.00	-57.25			
006	207.00		183.00	-57.00			
007	238.00		182.50	-57.00			
008	269.50		182.00	-57.00			
009	301.00		183.00	-57.00			
010	331.00		185.00	-57.00			
011	361.00		183.00	-55.50			
012	394.00		185.00	-55.00			

R HED This hole was drilled to test for replacment massive sulphides
R HED in carbonates of the Upper Donah Formation in the footwall of
R HED the Balstrup Fault.It was positioned to intersect the fault at
R HED a depth of about 300m, below unsuccessful hole SY013.
R HED The hole intersected the fault over the interval 317.7 - 319.8
R HED and immediately passed into Upper Donah Formation carbonates
R HED with talcose alteration, but no massive sulphides.
R HED
R HED

-	Interval From (m)	- To (m)	Rec. (m)	RQD (m)	Description	Unit
	0.00	0.30			NO CORE.	
	0.30	61.30			SHALE: medium dark grey, slightly carbonaceous, slightly weathered, indistinctly bedded, disrupted bedding, firm, highly broken core, 1% disseminations = veins of pyrite.	CAMBRIAN CRIMSON CK FOR
R	0.30	61.30			The interval is partially disrupted by faulting which is	
R	0.30	61.30			locally intense, and is consequently broken and partially	
R	0.30	61.30			decomposed.	
					0.30 20.40 100% SHALE: orange-brown, slightly carbonaceous, highly weathered, indistinctly bedded, disrupted bedding, crumbly, highly broken core, 1% disseminations = veins of	CAMBRIAN CRIMSON CK FOR

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SURFACE DIAMOND DRILLHOLE : SY015 (CONTINUED)

	From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
					pyrite. 31.00 35.00 40% FAULT: slickensided, fault: ca 10, crumbly, exceptionally broken core, 3 % disseminations of pyrite. 35.00 38.20 100% LITHIC ARENITE: light grey, slightly weathered, massive, medium grained.	
	61.30	86.00			FAULT: orange-brown, moderately oxidised, crumbly, highly broken core.	
R	61.30	86.00			The interval is essentially a large fault zone varying in	
R	61.30	86.00			intensity from disturbed and highly strained shale with	
R	61.30	86.00			indistinct bedding to completely shattered shaley pugg	
R	61.30	86.00			generally oxidised which is broken and caused high core loss. 61.30 86.00 50% SHALE: medium grey, intermixed, disrupted bedding, boudinaged, faulted, firm, moderately broken core, 3 % disseminations of pyrite.	
R	63.00	64.50			Either oxidised lithic arenite or mylonite.	
	86.00	107.50			MUDSTONE: light grey, shaley, slightly carbonaceous, slightly weathered, indistinctly bedded, disrupted bedding, bedding: ca 10, firm, highly broken core, 0.3% disseminations of pyrite. 86.00 107.50 40% LITHIC ARENITE: medium dark grey, irregularly interbedded, medium bedded, medium grained, firm, moderately broken core. 91.40 93.20 100% FAULT: crumbly, exceptionally broken core. 101.50 105.00 100% FAULT: crumbly, exceptionally broken core.	CAMBRIAN CRIMSON CK FOR
	107.50	120.90			FAULT: very dark grey, vuggy, puggy, fault: ca 45, crumbly, exceptionally broken core, 3 % disseminations of pyrite. 107.50 120.90 30% MUDSTONE: very dark grey, slightly carbonaceous, disrupted bedding, indistinctly bedded, faulted, 3 % disseminations of pyrite.	
	120.90	161.60			MUDSTONE: medium dark grey, slightly weathered, disrupted bedding, indistinctly bedded, firm, moderately broken core, 1% disseminations of pyrite.	CAMBRIAN CRIMSON CK FOR
R	120.90	161.60			The interval is increasingly strained downhole, and has	
R	120.90	161.60			deformed in a ductile manner producing a melange as the end	
R	120.90	161.60			product (Below 145m). Slight weathering presists to 161.6m as	
R	120.90	161.60			evidenced by weathering of carbonate leaving "empty" veinlets. 120.90 161.60 20% LITHIC ARENITE: light grey, irregularly interbedded, medium bedded, boudinaged. 130.40 131.60 100% FAULT: crumbly, exceptionally broken core. 146.40 161.60 30% MELANGE: very dark grey, moderately carbonaceous, melange foliation: ca 45.	

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SURFACE DIAMOND DRILLHOLE : SY015 (CONTINUED)

- Interval - From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
161.60	177.60			MUDSTONE: medium dark grey, medium bedded, bedding: ca 70, sharp base, hard, moderately broken core, 5% veins of quartz, 5% veins of carbonate, 1% disseminations = veins of pyrite. 161.60 177.60 40% LITHIC ARENITE: light grey, inter bedded, medium bedded, graded bedding, uphole facing, 5% veins of quartz, 5% veins of carbonate, 1% disseminations = veins of pyrite.	CAMBRIAN CRIMSON CK FOR
177.60	183.60			LITHIC ARENITE: light grey, coarse bedded, graded bedding, bedding: ca 50, uphole facing, sharp base, hard, moderately broken core, 3 % veins of carbonate. 177.60 183.60 20% MUDSTONE: medium dark grey, medium bedded.	CAMBRIAN CRIMSON CK FOR
183.60	209.10			LIMESTONE: medium grey, medium bedded, well bedded, bedding: ca 50, hard, moderately broken core, 5% veins of carbonate, 1% disseminations of pyrite. 183.60 209.10 20% SHALE: dark grey, irregularly interbedded, medium bedded, 5% veins of carbonate, 1% disseminations of pyrite. 189.30 189.50 100% STRUCTURAL MEASUREMENT: bedding: 344 / 78. 191.30 191.40 100% STRUCTURAL MEASUREMENT: bedding: 020 / 60.	CAMBRIAN CRIMSON CK FOR
209.10	229.80			MUDSTONE: dark grey, moderately calcareous, medium bedded, coarse bedded, bedding: ca 45, hard, moderately broken core, 5% veins of carbonate, 3 % disseminations = veins of pyrite. 209.10 229.80 30% LITHIC ARENITE: light grey, irregularly interbedded, slightly calcareous, medium bedded, 5% veins of carbonate, 3 % disseminations = veins of pyrite.	CAMBRIAN CRIMSON CK FOR
229.80	230.70			LIMESTONE: medium grey, coarse bedded, bedding: ca 65, hard, moderately broken core, 3 % veins of carbonate, 1% disseminations of pyrite.	CAMBRIAN CRIMSON CK FOR
230.70	277.90			LITHIC ARENITE: light grey, coarse bedded, graded bedding, basal contact: ca 20, uphole facing, sharp base, hard, moderately broken core, 3 % veins of carbonate. 230.70 277.90 10% MUDSTONE: dark grey, irregularly interbedded, medium bedded. 233.50 241.50 100% LITHIC ARENITE: light grey, coarse bedded, graded bedding, basal contact: ca 20, uphole facing, sharp base, hard, moderately broken core, 5% veins of carbonate, 3 % disseminations = veins of pyrite, 0.3% veins of epidote. 251.00 255.00 60% MUDSTONE: moderately calcareous, medium	CAMBRIAN CRIMSON CK FOR CAMBRIAN CRIMSON CK FOR

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SYLVESTER GRID
SURFACE DIAMOND DRILLHOLE : SY015 (CONTINUED)

	- Interval - From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
					bedded, soft sediment slumping, 10% veins of carbonate, 1% disseminations < veins of pyrite.	
					251.00 277.90 100% LITHIC ARENITE: light grey, slightly calcareous, coarse bedded, graded bedding, basal contact: ca 20, uphole facing, sharp base, hard, moderately broken core, 3 % veins of carbonate.	CAMBRIAN CRIMSON CK FOR
					262.80 262.90 100% STRUCTURAL MEASUREMENT: fault: 280 / 85.	
	277.90	284.90			MELANGE: basal contact: ca 40, 3 % veins of quartz, 1% veins of carbonate, 1% disseminations = veins of pyrite.	
R	277.90	284.90			This is unlike most other melanges in having mostly Crimson	
R	277.90	284.90			Creek Formation turbidites as fragments and in having fewer,	
R	277.90	284.90			fragments with a wide size range.Sheared on contacts.	
	284.90	314.50			SANDSTONE: light grey, coarse bedded, gradational base, hard, moderately broken core, 10% veins of quartz, 3 % veins of carbonate, 1% disseminations > veins of pyrite, 0.3% veins of epidote.	UPPER OONAH
					284.90 314.50 30% SANDSTONE WITH SHALE: medium grey, irregularly interbedded, fine bedded, laminated, soft sediment slumping, 3 % veins of quartz, 1% veins of carbonate.	
					290.30 290.60 100% STRUCTURAL MEASUREMENT: bedding: 360 / 90.	
R	292.45	292.46			Fibres indicate upper block moved up (toward 054 deg AMG).	
					292.45 292.46 100% STRUCTURAL MEASUREMENT: fault: 318 / 65, fibre: 234 / 15.	
					292.90 292.91 100% STRUCTURAL MEASUREMENT: fault: 296 / 74.	
					295.00 295.01 100% STRUCTURAL MEASUREMENT: fracture: 360 / 75.	
R	295.50	295.96			Upper block moved toward 270 deg AMG.	
					295.50 295.96 100% STRUCTURAL MEASUREMENT: fault: 006 / 70, fibre: 090 / 12.	
R	295.80	295.81			Fibres indicate upper block down(toward 106 deg AMG).	
					295.80 295.81 100% STRUCTURAL MEASUREMENT: fault: 020 / 70, fibre: 106 / 28.	
R	296.05	296.06			Upper block moved toward 295 degrees AMG.	
					296.05 296.06 100% STRUCTURAL MEASUREMENT: fault: 035 / 75, fibre: 115 / 18.	
R	296.45	296.46			Upper block moved toward 295 deg AMG.	
					296.45 296.46 100% STRUCTURAL MEASUREMENT: fault: 205 / 80, fibre: 115 / 10.	
	314.50	317.70			MELANGE: dark grey, slightly graphitic, slightly calcareous, basal contact: ca 70, hard, moderately broken core. 1% disseminations of pyrite.	

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SURFACE DIAMOND DRILLHOLE : SY015 (CONTINUED)

	From (m)	To (m)	Rec. (m)	ROD (m)	Description	Unit
	317.70	319.80			FAULT: black, slightly conglomerate, puggy, crumbly, exceptionally broken core.	
R	317.70	319.80			Balstrup Fault.	
	319.80	324.60			CARBONATE: medium grey, massive, sharp irregular base, firm, moderately broken core, 1% disseminations of talc, 0.3% disseminations of pyrrhotite.	UPPER OONAH
	324.60	329.30	2.0		FAULT: black, moderately calcareous, highly graphitic, fault: ca 40, crumbly, highly broken core.	
	329.30	336.20			CARBONATE: grey-green, highly talcose, fine bedded, laminated, bedding: ca 65, 10% disseminations of talc.	UPPER OONAH
R	329.30	336.20			A talcose altered carbonate, similar to carbonates intersected	
R	329.30	336.20			in SY003 below 431.5 m.	
	336.20	391.50			SANDSTONE WITH SILTSTONE: medium grey, fine bedded, laminated, well bedded, microfaults, bedding: ca 55, hard, moderately broken core, 5% veins of quartz, 1% veins of carbonate, 0.3% disseminations = veins of pyrite.	UPPER OONAH
R	336.20	391.50			Finely interbedded/interlaminated light grey sandstone (40%),	
R	336.20	391.50			and dark grey siltstone/shale (60%). Occasional limey interbeds	
R	336.20	391.50			near top. Occasional slump folds. BCA's vary 40 - 80 degrees,	
R	336.20	391.50			ave 55.	
					336.20 338.70 100% SANDSTONE WITH SILTSTONE: medium grey, fine bedded, laminated, well bedded, microfaults, bedding: ca 55, hard, highly broken core, 5% veins of quartz, 1% veins of carbonate, 0.3% disseminations = veins of pyrite.	UPPER OONAH
					346.70 359.10 100% SANDSTONE: light grey, irregularly interbedded, medium bedded, coarse bedded.	
					358.50 362.00 100% SANDSTONE WITH SILTSTONE: medium grey, graded bedding, laminated, well bedded, microfaults, bedding: ca 55, downhole facing, hard, moderately broken core, 5% veins of quartz, 1% veins of carbonate, 0.3% disseminations = veins of pyrite.	UPPER OONAH
					371.60 371.80 100% STRUCTURAL MEASUREMENT: bedding: 240 / 15.	
					373.00 373.10 100% STRUCTURAL MEASUREMENT: bedding: 018 / 60.	
					374.70 374.80 100% STRUCTURAL MEASUREMENT: fracture: 006 / 55. bedding: 005 / 78.	
					376.20 376.21 100% STRUCTURAL MEASUREMENT: fault: 230 / 85. slickensides: 318 / 63.	
					377.20 377.30 100% STRUCTURAL MEASUREMENT: bedding: 015 / 86.	
	391.50	396.00			FAULT: black, slightly graphitic, slightly calcareous,	

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	- Interval - From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
					brecciated, slickensided, fault: ca 45, firm, highly broken core, 10% patches of quartz, 5% disseminations of carbonate.	
END	396.00	412.50			SANDSTONE WITH SILTSTONE: medium grey, fine bedded, laminated, well bedded, soft sediment slumping, bedding: ca 55, hard, moderately broken core. 396.35 396.40 100% STRUCTURAL MEASUREMENT: bedding: 015 / 62. 396.40 396.45 100% STRUCTURAL MEASUREMENT: bedding: 037 / 50. 402.40 402.50 100% STRUCTURAL MEASUREMENT: bedding: 020 / 70. 403.10 403.20 100% STRUCTURAL MEASUREMENT: vein: 102 / 65.	UPPER DONAH
R	403.30	404.40			The boulangerite (or jamesonite?) occurs toward upper contact whilst sphalerite-galena is toward base.They don't occur together.	
R	403.30	404.40				
R	403.30	404.40			403.30 404.40 100% VEIN: yellow, vein: ca 10, 30% veins of quartz, 5% veins of carbonate, 50% veins of pyrite, 1% veins of galena, 1% veins of sphalerite, 5% veins of boulangerite, 0.3% epidote veins of. 403.50 403.65 100% STRUCTURAL MEASUREMENT: vein: 074 / 75. 404.15 404.30 100% STRUCTURAL MEASUREMENT: fault: 094 / 75. 405.50 405.60 100% STRUCTURAL MEASUREMENT: bedding: 040 / 75. 405.90 406.00 100% STRUCTURAL MEASUREMENT: bedding: 040 / 84. 406.20 406.30 100% STRUCTURAL MEASUREMENT: bedding: 020 / 70.	