R.G.C. Exploration Pty Ltd

SYLVESTER GRID

SURFACE DIAMOND DRILLHOLE : SY014

JECT IDEN :SYLVESTER START DATE : 20 NOV 91 COMPLETION DATE : 6 DEC 91 LOGGED BY:DAVID JOHN CROSSING
LAR NORTHING: 61315.42 COLLAR EASTING : 56426.41 COLLAR ELEVATION: 293.06 GRID AZIMUTH : 0.00
LED BY : D.D.T TOTAL LENGTH : 503.30 CORE/HOLE SIZE : PQHQ

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
	0.00		180.30	-59.75	61315.42	56426.41	293.06
	20.00		180.41	-59.00			
	40.00		179.38	-59.25			
	60.00		179.50	-59.00			
	80.00		180.20	-58.75			
	100.00		181.49	-58.00			
	120.00		182.37	-57.25			
	140.00		182.09	-57.25			
	160.00		182.99	-57.00			
	180.00		184.49	-57.00			
	200.00		184.80	-56.75			
	220.00		184.55	-56.25			
	240.00		185.15	-55.75			
	260.00		186.06	-56.00			
	280.00		188.18	-56.00			
	300.00		190.32	-55.25			
	320.00		191.24	-55.25			
	340.00		192.16	-55.25			
	360.00		192.17	-55.25			
	380.00		192.79	-55.25			
	400.00		191.28	-55.25			
	420.00		194.40	-54.50			
	440.00		194.44	-53.50			
	460.00		195.70	-53.25			
	480.00		194.80	-52.25			
	495.00		194.49	-51.75			

ED This hole was part of a two-hole programme (SY010 & SY014)
ED designed to test a deep sourced magnetic anomaly for base metal
ED massive sulphide mineralisation of the style encountered by
ED SY005. The hole collared in melange and then intersected
ED psammo-pelites (mostly sandstone) from 26.2m to 391.0m with
ED the exception of a short interval of calc-silicate (225.4 -
ED 234.1m). Over the interval 391.0 - 438.1m the hole
ED encountered a mixture of magnetite-serpentinite and
ED calc-silicate skarn.Below 438.1m the hole encountered
ED melange and pelites which were hornfelsed below 451.4m.The
ED hole explained the source of the magnetite anomaly.but failed

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ED to locate significant base metal sulphides.

Interval From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
0.00	14.00			PRECOLLAR.	
14.00	26.20	8.5		MELANGE: dark grey, slightly carbonated, very slightly micaceous, massive, soft, highly broken core, 3 % disseminations = veins of pyrite.	OONAH FM UNDIFFERENT
14.00	26.20			Mostly sandstone boudins, aligned with moderate to strongly	
14.00	26.20			foliated matrix. Foliation decreases in intensity toward	
14.00	26.20			gradational base.	
26.20	81.50			SANDSTONE: medium grey, massive, hard, moderately broken core, 1% veins of quartz, 1% disseminations = veins of pyrite, 0.1% disseminations = veins of pyrrhotite.	OONAH FM UNDIFFERENT
				57.00 62.50 100% SANDSTONE: medium grey, fine bedded, moderately folded, soft sediment slumping, hard, moderately broken core, 1% veins of quartz, 1% disseminations = veins of pyrite, 0.1% disseminations = veins of pyrrhotite.	OONAH FM UNDIFFERENT
				77.00 81.50 100% SANDSTONE: medium grey, massive, hard, moderately broken core, 5% veins of quartz, 3 % veins of pyrite, 0.1% disseminations = veins of pyrrhotite.	OONAH FM UNDIFFERENT
81.50	96.00			SANDSTONE WITH SILTSTONE: dark grey, fine bedded, moderately folded, soft sediment slumping, bedding: ca 35, basal contact: ca sharp base, 35, hard, moderately broken core, 5% veins of quartz, 3 % disseminations = veins of pyrite.	OONAH FM UNDIFFERENT
				86.00 88.00 100% SANDSTONE WITH SILTSTONE: dark grey, brecciated, moderately folded, soft sediment slumping, bedding: ca 35, basal contact: ca sharp base, 35, hard, moderately broken core, 3 % veins of quartz, 3 % veins of epidote, 3 % disseminations = veins of pyrite.	OONAH FM UNDIFFERENT
				92.00 94.00 60% SANDSTONE: black, moderately micaceous, foliated.	
96.00	127.70			SANDSTONE: medium grey, massive, hard, highly broken core.	OONAH FM UNDIFFERENT
				96.00 127.70 20% SANDSTONE WITH SILTSTONE: irregularly interbedded, fine bedded.	
				99.00 100.00 100% SANDSTONE: medium lime, moderately altered, brecciated, hard, highly broken core.	OONAH FM UNDIFFERENT
				99.90 99.91 100% STRUCTURAL MEASUREMENT: bedding: 030 / 68.	
				100.00 111.00 100% SANDSTONE: medium grey, moderately silicified, massive, hard, highly broken core, 10% veins of quartz, 1% veins of epidote.	OONAH FM UNDIFFERENT
				111.00 121.00 100% SANDSTONE: medium grey, brecciated, stockworked, vein: ca 5, hard, highly broken core, 10% veins	OONAH FM UNDIFFERENT

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Interval From (m)	Interval To (m)	Rec. (m)	RQD (m)	Description	Unit
				of pyrite, 3 % stockwork of galena, 5% stockwork of sphalerite.	
113.00	117.00			Stockwork veining centred around irregular vein at 0-15 degrees	
113.00	117.00			to the c.a., averaging 10% pyrite, 8% sphalerite and 4% galena.	
127.70	204.30			SANDSTONE WITH SILTSTONE: medium grey, fine bedded, well bedded, strongly folded, soft sediment slumping, faulted base, uphole facing, hard, moderately broken core, 1% veins of quartz, 1% disseminations (veins of pyrite.	OONAH FM UNDIFFERENT
127.70	204.30			Extremely convoluted bedding (soft sediment slumping?), folds	
127.70	204.30			are sometimes truncated by (unfolded) bedding and sometimes by	
127.70	204.30			microfaults at about 30 degrees to the c.a. Bca's are	
127.70	204.30			variable.Becomes less folded and bca's increase downward.	
127.70	204.30			Graded beds generally face uphole.	
				130.60 133.00 100% SANDSTONE WITH SILTSTONE: medium grey, fine bedded, well bedded, strongly folded, soft sediment slumping, faulted base, uphole facing, hard, moderately broken core. 5% veins of quartz, 5% disseminations (.veins of pyrite, 3 % veins of galena, 1% veins of sphalerite.	OONAH FM UNDIFFERENT
				138.90 138.91 100% STRUCTURAL MEASUREMENT: bedding: 330 / 73.	
				158.20 166.00 100% SANDSTONE WITH SILTSTONE: black, moderately carbonated, slightly micaceous, fine bedded, well bedded, strongly folded, soft sediment slumping, bedding: ca 20, faulted base, uphole facing, hard, moderately broken core, 1% veins of quartz, 1% disseminations (veins of pyrite.	OONAH FM UNDIFFERENT
				159.90 159.91 100% STRUCTURAL MEASUREMENT: bedding: 144 / 68.	
				160.90 160.91 100% STRUCTURAL MEASUREMENT: bedding: 142 / 54.	
				162.90 162.91 100% STRUCTURAL MEASUREMENT: bedding: 145 / 20.	
				191.00 191.01 100% STRUCTURAL MEASUREMENT: bedding: 138 / 75.	
				191.70 191.71 100% STRUCTURAL MEASUREMENT: fold axis: 336 / 40.	
				193.00 193.10 100% STRUCTURAL MEASUREMENT: bedding: 053 / 30.	
204.30	206.50			FAULT: fault: ca 30, 10% infilling shear/fault quartz, 1% veins of carbonate, 1% infilling shear/fault chlorite, 1% infilling shear/fault pyrite, 1% infilling shear/fault pyrrhotite.	
206.50	225.20			SANDSTONE: light grey, massive, medium grained, hard, moderately broken core.	OONAH FM UNDIFFERENT
				206.50 210.70 100% SILTSTONE: inter bedded, medium bedded, graded bedding, bedding: ca 50, gradational base, 3 % veins of quartz.	
				206.50 210.70 100% SILTSTONE: inter bedded, medium bedded,	

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Interval From (m)	Interval To (m)	Rec. (m)	ROD (m)	Description	Unit
				graded bedding, bedding: ca 50, gradational base, 3 % veins of quartz.	
218.80	222.00			A highly strained medium bedded sandstone (melange) appears to	
218.80	222.00			have been highly sheared after melange formation.	
				218.80 222.00 100% MELANGE: moderately altered, disrupted bedding, sheared, shear: ca 45, 5% disseminations < veins of quartz, 1% disseminations = veins of pyrite, 1% disseminations of sercite.	
				219.70 219.71 100% STRUCTURAL MEASUREMENT: melange foliation: 174 / 89.	
				221.90 221.91 100% STRUCTURAL MEASUREMENT: melange foliation: 334 / 65.	
				222.00 225.20 100% SANDSTONE: light grey, moderately altered, silicified, brecciated, medium grained, hard, moderately broken core, 20% disseminations < veins of quartz, 10% stockwork of pyrite, .03% stockwork of chalcopyrite, 0.3% stockwork of sphalerite, 3 % disseminations of sercite.	OONAH FM UNDIFFERENT
				225.10 225.11 100% STRUCTURAL MEASUREMENT: shear: 142 / 80.	
225.20	225.40			FAULT: moderately altered, fault: ca 15, 5% disseminations > veins of carbonate, 5% disseminations > veins of magnetite, 3 % stockwork of pyrite, 1% stockwork of pyrrhotite, 80% massive/ semi - massive calc-silicates.	
225.40	234.10			CALC-SILICATE ROCK: green, medium grained, massive, recrystallised, textures obliterated by alteration, basal contact: ca 30, hard, slightly broken core, 5% disseminations > veins of carbonate, 5% disseminations of magnetite, 3 % disseminations > veins of pyrite, 0.3% disseminations > veins of chalcopyrite, 1% disseminations > veins of pyrrhotite, 80% massive/ semi - massive calc-silicates.	
225.40	234.10			Massive green calc-silicate with discordant contacts.Probably	
225.40	234.10			mostly actinolite.	
				227.30 230.40 100% SANDSTONE: moderately altered, brecciated, 5% stockwork of pyrite, 0.3% stockwork of pyrrhotite, 0.3% stockwork of sphalerite.	
				230.30 230.31 100% STRUCTURAL MEASUREMENT: basal contact: 316 / 80.	
				234.05 234.06 100% STRUCTURAL MEASUREMENT: basal contact: 104 / 85.	
234.10	391.00			SANDSTONE: light grey, medium grained, massive, basal contact: ca sharp base, 70, hard, moderately broken core, 5% veins of quartz, 1% veins of pyrite, 1% veins of pyrrhotite.	OONAH FM UNDIFFERENT

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SURFACE DIAMOND DRILLHOLE : SY014 (CONTINUED)

Interval From (m)	Interval To (m)	Rec. (m)	RQD (m)	Description	Unit
				234.10 242.60 100% SANDSTONE: light grey, moderately altered, medium grained, graded bedding, brecciated, bedding: ca 30, basal contact: ca sharp base, 70, hard, moderately broken core, 5% veins of quartz, 3 % stockwork of pyrite, 0.1% stockwork of chalcopyrite, 0.3% stockwork of galena, 3 % stockwork of pyrrhotite, 0.1% stockwork of sphalerite.	OONAH FM UNDIFFERENT
				235.10 235.11 100% STRUCTURAL MEASUREMENT: bedding: 110 / 50.	
				238.10 238.11 100% STRUCTURAL MEASUREMENT: fault: 130 / 78.	
				238.20 238.21 100% STRUCTURAL MEASUREMENT: bedding: 030 / 80.	
				238.90 238.91 100% STRUCTURAL MEASUREMENT: bedding: 066 / 61.	
				242.60 243.80 80% VEIN: top contact: ca 35, basal contact: ca 15, 5% veins of quartz, 80% veins of pyrite, 3 % veins of chalcopyrite, 10% veins of sphalerite.	
				242.70 242.71 100% STRUCTURAL MEASUREMENT: basal contact: 290 / 70.	
				243.60 243.61 100% STRUCTURAL MEASUREMENT: basal contact: 295 / 86.	
				243.80 252.40 100% SANDSTONE: light grey, slightly altered, brecciated, massive, basal contact: ca sharp base, 70, hard, moderately broken core, 5% veins of quartz, 0.1% veins of siderite, 3 % stockwork of pyrite, 1% stockwork of pyrrhotite, 0.1% stockwork of sphalerite.	OONAH FM UNDIFFERENT
				255.00 263.00 100% SANDSTONE: dark grey, medium bedded, fine bedded, moderate to strongly folded, cleavage: ca 45, basal contact: ca sharp base, 70, hard, moderately broken core, 5% veins of quartz, 1% veins of pyrite, 1% veins of pyrrhotite.	OONAH FM UNDIFFERENT
				264.00 270.80 100% SANDSTONE: light grey, slightly altered, medium grained, massive, basal contact: ca sharp base, 70, hard, moderately broken core, 5% veins of quartz, 1% stockwork of chlorite, 3 % stockwork of pyrite, 1% veins of pyrrhotite, 0.1% stockwork of sphalerite.	OONAH FM UNDIFFERENT
				276.80 276.81 100% STRUCTURAL MEASUREMENT: bedding: 197 / 30.	
				279.90 289.81 100% STRUCTURAL MEASUREMENT: bedding: 055 / 15.	
				287.30 290.30 100% SANDSTONE WITH SILTSTONE: light grey, well bedded, fine bedded, cleavage: ca 20, bedding: ca sharp base, 70, hard, moderately broken core, 1% veins of quartz, 1% veins of carbonate, 0.3% veins of pyrite, 1% veins of pyrrhotite.	OONAH FM UNDIFFERENT
				303.20 307.80 100% SANDSTONE WITH SILTSTONE: well bedded, fine bedded, bedding: ca 45.	
				305.50 306.80 100% SANDSTONE: light grey, medium grained, massive, basal contact: ca sharp base, 70, hard, moderately broken core, 3 % stockwork of quartz, 1% veins of pyrite, 3 % stockwork of pyrrhotite, 1% stockwork of sphalerite.	OONAH FM UNDIFFERENT
				307.90 307.91 100% STRUCTURAL MEASUREMENT: bedding: 016 / 45.	

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Interval From (m)	Interval To (m)	Rec. (m)	ROD (m)	Description	Unit
				314.00 321.00 100% SANDSTONE WITH SILTSTONE: well bedded, fine bedded, graded bedding, graded bedding: ca uphole facing, 60.	
				321.00 327.00 100% SANDSTONE: light grey, slightly altered, medium grained, massive, basal contact: ca sharp base, 70, hard, moderately broken core, 5% veins of quartz, 1% disseminations = veins of epidote, 1% veins of pyrite, 1% veins of pyrrhotite.	OONAH FM UNDIFFERENT
				330.40 334.10 100% SANDSTONE: light grey, medium grained, massive, basal contact: ca sharp base, 70, hard, moderately broken core, 20% veins of quartz, 1% veins of pyrite, 1% veins of pyrrhotite.	OONAH FM UNDIFFERENT
				331.00 391.00 10% SANDSTONE WITH SILTSTONE: irregularly interbedded, well bedded, fine bedded, graded bedding.	
342.70	342.71			Upper block displaced upward, toward 295 AMG.	
				342.70 342.71 100% STRUCTURAL MEASUREMENT: fault: 200 / 80, fibre: 115 / 35.	
				343.55 343.56 100% STRUCTURAL MEASUREMENT: bedding: 035 / 30.	
				346.10 346.11 100% STRUCTURAL MEASUREMENT: bedding: 025 / 65.	
				347.30 347.70 100% FAULT: fault: ca 45, 80% infilling shear/fault quartz, 3 % infilling shear/fault pyrite, 0.1% disseminations of chalcopyrite, 100% infilling shear/fault pyrrhotite, 1% disseminations of sphalerite.	
				372.90 372.91 100% STRUCTURAL MEASUREMENT: bedding: 055 / 45.	
				380.00 391.00 60% SANDSTONE: light grey, moderately altered, silicified, brecciated, veined, basal contact: ca sharp base, 70, hard, moderately broken core, 5% veins of quartz, 1% veins of pyrite, 1% veins of pyrrhotite.	OONAH FM UNDIFFERENT
391.00	429.90			SKARN: mottled green, magnetite, serpentinized, carbonated, massive, hard, moderately broken core, 30% disseminations of magnetite, .03% veins of sphalerite, 60% interstitial serpentine.	UPPER OONAH
391.00	429.90			The skarn is an irregular intermixture of the three components	
391.00	429.90			at all scales, plus intermediate types.Light reddish brown	
391.00	429.90			sphalerite is sometimes present as patchy disseminations in the	
391.00	429.90			calc-silicate and carbonate units, and in rare veins.	
				391.00 429.90 40% CALC-SILICATE ROCK: grey, intermixed, 20% disseminations of magnetite, 0.1% disseminations < veins of sphalerite, 10% disseminations of serpentine, 60% calc-silicates disseminations of.	
				391.00 429.90 20% CARBONATE: white, intermixed, 10% patches of talc, 5% disseminations of magnetite, 0.1% disseminations < veins of sphalerite, 5% disseminations of serpentine, 20% magnesite patches of.	

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	From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
					400.00 400.01 100% STRUCTURAL MEASUREMENT: foliation: 360 / 81.	
					404.00 405.00 100% CALC-SILICATE ROCK: mottled green, magnetite, serpentinized, carbonated, massive, hard, moderately broken core, 30% disseminations of magnetite, 1% disseminations of sphalerite, 60% interstitial serpentine.	UPPER OONAH
					408.10 409.40 100% CALC-SILICATE ROCK: mottled green, magnetite, serpentinized, carbonated, massive, hard, moderately broken core, 30% disseminations of magnetite, 3 % disseminations of sphalerite, 60% interstitial serpentine.	UPPER OONAH
N	408.75	408.80			T35569: Calc-silicate rock: mostly tremolite-actinolite?	
					412.00 412.80 30% SKARN: mottled green, magnetite, serpentinized, carbonated, massive, hard, moderately broken core, 30% disseminations of magnetite, 3 % disseminations of sphalerite, 60% interstitial serpentine.	UPPER OONAH
	429.90	438.10			CARBONATE: white, basal contact: ca 50, hard, moderately broken core.	UPPER OONAH
HN	429.90	430.00			T35570: Opaque to translucent, dull white? carbonate,	
HN	429.90	430.00			unreactive in dilute hcl. Probably mostly magnesite.	
	433.60	433.61			Faint compositional banding with diffuse margins.	
					433.60 433.61 100% STRUCTURAL MEASUREMENT: banding: 170 / 85.	
	438.10	450.70			MELANGE: medium dark grey, massive, sharp base, hard, moderately broken core.	UPPER OONAH
	438.10	450.70			Partly hornfelsed typical Oonah melange.Clasts to 10cm.	
	450.70	451.40			SKARN: grey-brown, highly altered, massive, fine grained, top contact: ca 45, basal contact: ca sharp base, 15, hard, moderately broken core, 10% disseminations of pyrite, 10% disseminations of pyrrhotite.	UPPER OONAH
	450.70	451.40			A fine grained skarn, apparently conformable consisting	
	450.70	451.40			principally of a yellowish-amber translucent mineral and a	
	450.70	451.40			reddish-brown translucent/transparent mineral(garnet?).	
	450.70	451.40			Generally too fine grained for positive identification.	
	450.96	451.00			Typical specimen taken for petrography.	
	451.40	463.50			HORNFELS: mottled lime, massive, textures obliterated by alteration, hornfelsic structured, hard, moderately broken core.	UPPER OONAH
	451.40	463.50			Faint remnant bedding suggests precursor is a mixture of	
	451.40	463.50			pelites and melange.	
					459.90 459.91 100% STRUCTURAL MEASUREMENT: foliation: 200 / 79.	

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From (m)	To (m)	Rec. (m)	RQD (m)	Description	Unit
				461.70 461.71 100% STRUCTURAL MEASUREMENT: fracture: 195 / 50.	
463.50	471.80			MELANGE: mottled green, massive, hornfelsic structured, gradational base, hard, moderately broken core.	UPPER DONAH
463.50	471.80			Partially hornfelsed typically Donah melange.Fabric orientation	
463.50	471.80			is variably, but generally is around 45 degrees to the c.a.	
				463.50 471.80 20% MELANGE: very dark grey, intermixed, slightly carbonaceous, massive.	
ND 471.80	503.30			HORNFELS: very dark brown, massive, textures obliterated by alteration, hornfelsic structured, fine grained, hard, slightly broken core, 0.3% veins of quartz, 0.3% veins of carbonate, 0.3% patches of pyrite, 0.3% patches of pyrrhotite.	UPPER DONAH