

78.4 - 79 (TD) Grey, green laminated siltstone. Laminations 60° TCA.
Minor fracturing 60° TCA.

Summary : GRD-5 (0-165.4m)

Collar : 5415536.18mN, 585791.18mE

Drilled : 45° ⇒ 135° (MAG)

4 - 27.2 fg, cream, quartz sandstone (oxidised). VV broken & fractured. Rare pieces of intact core show fracturing 0-20° + 70° TCA. Abt Fe staining on fracture surfaces. 21.5 - 22.7 - Silicified fg sandstone + quartz veining. Broken ground.

27.2 - 28.6 Fault breccia. Brecciated siltstone, Gy, quite soft - extremely 'ground up', top and bottom contact. Some clay alteration.

28.6 - 31.4 Gy, fg sandstone. Some fracturing 40° TCA. 31.4 minor quartz veining 20-30° TCA. 29.4 - 2cm 30° TCA fault breccia and silicification. 29.8 - vis 29.4. 30.3 - 30.5 - vis 29.4.

31.4 - 32.7 Gy laminated siltstone. Lamination 90° TCA. Some movement - elongation lineations on lamination planes.

32.7 - 36.5 Grey fg, quartz lithic sandstone with intermittent thin siltstone layers 35.4 - 39.3 zone of brecciation and fracturing and some small sections of silicification. Fe rich matrix.

36.5 - 41.4 Siltstone brecciated (see 35.4 - 39.3) and fg sandstone layers. Fractured @ 50° TCA. 39.1 - 39.2 fault breccia.

41.4 - 46.0 Cream - grey fg, quartz lithic sandstone. Minor fracturing 45° TCA. 42.5 - 42.7 breccia zone top contact 135° TCA, bottom contact 45° TCA. 43.5 - 48 bleached (brecciated 45.3 - 46) sandstone/ siltstone and fracturing 45° & 60° TCA.

46 - 47 Siltstone vis 43.5 - 48.

47 - 56 Gy, fg, qtz-lithic sandstone and rare thin layers of siltstone. Some fracturing 45° TCA. 52.5 - 53 - close spaced fracturing (<1cm) @ 45° TCA & some thin 7mm qtz

- veins @ same orientation. Some peripheral bleaching around fractures.
- 56 - 62.2 Green, cream - bleached fg sand stone (qtz-lithic) Abt fractures 140° TCA. Bedding 60° TCA 56.5 - 57 Silicified sand stone + Abt thin 1 - 3mm Qtz "stringers" @ 140° TCA, bottom contact is 3cm qtz vein. 58.4 - 58.6 1cm qtz vein parallel TCA with associated minor silicification. 59 - 60.7 Broken ground with silicified sections ~15cm thick. 61.3 - 62.5 0.5 - 2cm qtz vein parallel TCA with peripheral bleaching.
- 62.2 - 70.2 Grey, fg, qtz lithic sand stone. Some fracturing 30° + minor 160°TCA. Bedding 100° TCA. 67.6 - 70 bleached, fractured. Some qtz veining <1cm @ 0° & 50° TCA, fracturing @ 35° + 145° TCA. Associated silicification with qtz veining.
- 70.2 - 99.6 Alternating sand stone & slt stone layers. Bedding 80° TCA. Slt stone layers become thin and intermittent below 75m. Some fracturing @ 70° + 20° TCA. 90 - 90.6 bleached and fractured zone.
- 99.6 - 107.4 Laminated grey silt stone. Laminations 65° TCA.
- 107.4 - 121 Cream and grey fg qtz-lithic sand stone with some thin intermittent slt st layers. 112 - 115 Silicified sand stone 10cm brecciated top contact. Abt thin fractures (infilled by 3mm qtz veins) about 1cm apart 150° TCA bedding 60° TCA. Abt vfg As Py and some euhedral AsPy. 118.2 - 119.8 vis 112 - 115.
- 121 - 121.7 Grey laminated slt stone. Laminations 40° TCA. Some minor thin qtz veins <1cm @ 140° TCA. Veining contains some vfg aggregates of Py.
- 121.7 - 128.2 Grey, cream fg, qtz-lithic sand stone, common fractures 60° TCA 122.7 - 123.4 - silicified, bleached and thin, close-spaced qtz veining 80°.110° - 80°.190°.
- 128.2 - 135.5 Sand stone & intermittent thin slt stn layers. Flaser lenticular bedding. 127.7 - 128.5 Abt fractures 60° TCA with occasional bleaching. 131.4 - 15cm broken ground - qtz veins. Abt Py and some Galena & AsPy + 1 speck vis Au. 132 - 4cm qtz vein 60° TCA Rare Py.
- 135.4 - 165.4 Interbedded sand stn & slt stn. Sand stone layers generally 2 - 3 times thickness of slt stone layers. Appear to be fining upward sequences.

Generally grey in colour with some cream bleached sections. Common thin fractures, some qtz filled, up to 5mm in thickness and contain AsPy. 144.5 - 3cm qtz vein @ 90°.180°. Some AsPy + 1 speck vis Au. 145.4 Thin qtz vein, some AsPy and minor Py + tiny speck Au? 145.8 - 146 Thin zone of fracturing 60° TCA and peripheral bleaching around fractures, close spaced ~ 1cm. Intermittent veining 45° TCA <5mm with minor AsPy and Py 148.8 - 149 zone of thin qtz veining 45° TCA AsPy > Py. 151.2 - 151.4 qtz veining + silicⁿ Abt AsPy. 153.5 - 154 vis 151.2 - 151.4. 156 - 157.6 Bleached silicified sand stn intensely veined bottom 30cm @ 45° TCA. Minor AsPy. 159.4 qtz vein 2cm thick. Some AsPy>Py. Some disseminated into host. Minor Py on fracture surfaces. 160.1-2 generations of veining - prevalent thin 45° TCA ones and 1cm thick 140° TCA. Minor AsPy and Some Silicⁿ. 160.1 - 165.4 some qtz veining and minor AsPy, Py and grey silt stone layers.

Summary : GRD-6 (0-298m)

Collar : 5415546.31mN, 585827.17mE

Drilled : -60° ⇒ 135° (MAG)

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| 3.7 -12.4 | fg qtz sand stone. Highly broken and fractured ground. Abt fe staining. |
| 12.4 - 25 | Cream, green fg sand stone. 18.5 - 19 brecciated. Fractures 0° TCA + 45° TCA. |
| 21.5 - 23 | Brecciated, patchy silicified sand stone and some qtz. Some fracturing 30° TCA. |
| 25 - 34.7 | Cream fg sand stone + thin v intermittent silt st. 25.3 - 26.4 brecciated sand stone & silt st and qtz. |
| 34.7 - 36.2 | Silt st. Cream, green |
| 36.2 - 42 | Interbedded sand stone and silt st, bedding Perpendicular TCA. 36.4 - 36.6 Broken ground. 41.1 - 41.2 Silicified fractured sand stone 70° TCA. |
| 42 - 44 | Green and pink silt st. Minor fracturing 45° TCA. |

GOLDEN RIDGE
SCAMANDER
BRILLIANT PROSPECT
GEOLOGICAL LOGS

GRD005

DEPTH FROM	DEPTH TO	LITHOLOGY		COLOUR	MINERALS		GRAIN SIZE	SULPHIDES	STRUCTURE			VEIN		ALTERATION	COMMENTS
		1	2		1	2			TYPE	ANGLE TCA	NOTES	MIN	ANGLE TCA		
0.00	4.00	No Core													Oxidised; broken
4.00	21.50	Snd St		CR	Qu		fg		fractures	0-20 & 70	Abt Fe staining				Si/d, broken ground
21.50	22.70	Snd St			Qu		fg		fractures			Qu			Oxidised; broken ground
22.70	27.20	Snd St		CR	Qu		fg		fractures	0-20 & 70	Abt Fe staining				Quite soft; "Ground up" top & bottom contacts
27.20	28.60	Breccia	Slt St	GY					fault				Some clay a/n		29.4 & 29.8m = 2cm fault breccia + Si/n - 30 TCA
28.60	30.30	Snd St		GY	Si		fg		fractures	40					Si/d
30.30	30.50	Breccia		GY			lg		fault						
30.50	31.40	Snd St		GY	Si		fg		fractures	40					Some movement indicated on lamination surfaces ie striations
31.40	32.70	Slt St		GY	Si				lamination	90					Snd St = Qu, lithic; intermittent thin Slt St layers
32.70	35.40	Snd St	Slt St	GY	Qu		fg					Qu	30		Small sections of Si/n, Fe rich matrix
35.40	39.10	Breccia	Slt St	GY	Qu	Fe			fractures	50		Qu	20 (2cm)		Fault breccia
39.10	39.20	Breccia							fault						Brecciated
39.20	41.40	Slt St	Snd St		Qu	Fe	tg		fractures	50					
41.40	42.50	Snd St		CR GY	Qu	Fe	fg		fractures	45					Top Contact 135 TCA, Bottom Contact 45 TCA
42.50	42.70	Breccia		CR GY					fractures	45					
42.70	43.50	Snd St		CR GY					fractures	45					Bleached
43.50	45.30	Snd St	Slt St	CR GY					fractures	45 & 60					Brecciated version of above
45.30	46.00	Breccia		CR GY											Bleached
46.00	47.00	Slt St		CR GY					fractures	45 & 60					
47.00	52.50	Snd St	Slt St	GY	Qu		fg		fractures	45					
52.50	53.00	Snd St	Slt St	GY	Qu		fg		fractures	45	Periph bleach	Qu	45 (7mm)		
53.00	56.00	Snd St	Slt St	GY	Qu		fg		fractures	45					Qu, lithic
56.00	56.50	Snd St		GR CR	Qu		fg		frac / bed	140 / 60					Si/d; abt 1-3mm Qu stringers @ 140 TCA - bt contact = 3cm vn
56.50	57.00	Snd St		GR CR	Qu		fg		frac / bed	140 / 60		Qu	140 (3cm)		Qu, lithic
57.00	58.40	Snd St		GR CR	Qu		fg		frac / bed	140 / 60					Minor associated Si/n
58.40	58.60	Snd St		GR CR	Qu		fg		frac / bed	140 / 60		Qu	0 (1cm)		Qu, lithic
58.60	59.00	Snd St		GR CR	Qu		fg		frac / bed	140 / 60					Broken ground & Si/d sections approx 15cm thick
59.00	60.70	Snd St		GR CR	Qu		fg		frac / bed	140 / 60					Qu, lithic
60.70	61.30	Snd St		GR CR	Qu		fg		frac / bed	140 / 60					Qu, lithic
61.30	62.20	Snd St		GR CR	Qu		fg		frac / bed	140 / 60	Periph bleach	Qu	0 (0.5 - 2cm)		Qu, lithic
62.20	67.60	Snd St		GY	Qu		fg		frac / bed	30&160/100					Associated Si/n with Qu veining
67.60	70.20	Snd St		GY	Qu		fg		fractures	35 & 145		Qu	0 & 50 (<1cm)		Alternating layers
70.20	75.00	Snd St	Slt St						bedding	80					Slt St layers become thin and intermittent
75.00	90.00	Snd St	Slt St						bed / frac	80 / 70&20					Bleached
90.00	90.60	Snd St	Slt St						fractured						
90.60	99.60	Snd St	Slt St						bed / frac	80 / 70&20					
99.60	107.40	Slt St		GY					lamination	65					Qu, lithic, some thin intermittent Slt St layers
107.40	112.00	Snd St	Slt St	CR GY	Qu		fg								Qu, lithic
112.00	115.00	Snd St	Slt St	CR GY	Qu		fg	Abt vfg AsPy	frac / bed	150 / 60	Qu fill (1cm)	Qu			Qu, lithic
115.00	118.20	Snd St	Slt St	CR GY	Qu		fg								Qu, lithic
118.20	119.80	Snd St	Slt St	CR GY	Qu		fg	Abt vfg AsPy	frac / bed	150 / 60	Qu fill (1cm)	Qu			Qu, lithic
119.80	121.00	Snd St	Slt St	CR GY	Qu		fg								Some minor vfg aggregates of Py
121.00	121.70	Slt St		GY				Py	lamination	40		Qu	140 (<1cm)		Qu, lithic

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GOLDEN RIDGE
SCAMANDER
BRILLIANT PROSPECT
GEOLOGICAL LOGS

GRD005 *Continued*

DEPTH FROM	DEPTH TO	LITHOLOGY		COLOUR	MINERALS		GRAIN SIZE	SULPHIDES	STRUCTURE		NOTES	VEIN		ALTERATION	COMMENTS
		1	2		1	2			TYPE	ANGLE TCA		MIN	ANGLE TCA		
121.70	122.70	Snd St		GY CR	Qu		fg		fractures	60					Si/d, bleached
122.70	123.40	Snd St			Qu				fractures	80.010/190	Qu fill				Qu, lithic
123.40	128.20	Snd St		GY CR	Qu		fg		fractures	60					Lenticular bedding
128.20	135.50	Snd St	Slt St		Qu			Py>AsPy>Gl, An	fractures	60	Periph bleach	Qu	60 (132m = 4cm)		Interbedded; Snd St 2-3 times thickness Slt St; fining up
135.50	148.80	Snd St	Slt St	GY / CR	Qu			AsPy / Py	fractures	60	Qu fill + \$	Qu	45 (<5mm)		Abt Qu veining
148.80	149.00	Snd St	Slt St	GY / CR	Qu			AsPy > Py				Qu	45		Interbedded; Snd St 2-3 times thickness Slt St; fining up
149.00	151.20	Snd St	Slt St	GY / CR	Qu			AsPy > Py							Qu veining and Si/n
151.20	151.40	Snd St	Slt St	GY / CR	Qu			AsPy > Py				Qu	45		Interbedded; Snd St 2-3 times thickness Slt St; fining up
151.40	153.50	Snd St	Slt St	GY / CR	Qu			AsPy > Py							Qu veining and Si/n
153.50	154.00	Snd St	Slt St	GY / CR	Qu			Py				Qu	45		Interbedded; Snd St 2-3 times thickness Slt St; fining up
154.00	156.00	Snd St	Slt St	GY / CR	Qu			Py							Bleached, Si/d
156.00	157.60	Snd St			Qu			AsPy							Interbedded; Snd St 2-3 times thickness Slt St; fining up
157.60	159.40	Snd St	Slt St	GY / CR	Qu			AsPy							\$ in vein; some \$ diss in host
159.40	160.10	Snd St	Slt St	GY / CR	Qu			AsPy > Py			Min Py on surf	Qu	40 (2cm)		2 generations veins; minor AsPy; some Si/n
160.10	165.40	Snd St	Slt St	GY / CR	Qu			AsPy				Qu	45(thin) & 140 (1cm)		