

140.9-141 Shear zone. Intermittent, thin (2cm Qtz veins and fracturing. Qtz veins contain AsPy, Py, Galena which is also disseminated through the host sandstone). Peripheries of Qtz veins generally silicified.

**Summary** : GRD-4 (0-79m)

**Collar** : 5415522.29mN, 585841.75mE

**Drilled** : 37° ⇒ 135° (MAG)

0 - 16.6 Oxidised cream fg sandstone to grey green quartz lithic fg sand stone. Abt fracturing and Fe staining, some Mn coatings. 3.1 - 3.2 fault Breccia.

16.6 - 29 Laminated silt st, laminations 40° TCA  
19 - 19.3 Silicified breccia zone, 20m thin fault zone.  
20.3 - 22.4 Broken ground, highly fractured and brecciated Abt Fe staining. 23.3 thin section (5cm) of Silicified, brecciated ground. Fractures 60° and 120° TCA. 26.7 - 27 vis 23.3. 28.7 - 29 Fault breccia & Fe staining.

29 - 33.6 Cream, Grey Fg sand stone, minor fracturing 45° + 135° TCA

33.6 - 34.7 Grey, green silt st.

34.7 - 43.5 Interbedded fg sand stone (Quartz lithic) & silt stone. sand st layers <70cm silt stone <40cm. Some fracturing 30° + 20° TCA. Bedding 60° TCA.

43.5 - 71 Grey cream fg quartz, lithic sand st. 45.4 - 46.5 Bleached silicified zone, brecciated (10cm) @ 46.4 - 46.5. Fractured 60° + 140° TCA. Rare thin 10cm Slt St layers; bedding 50° TCA. 48.7 - 50 Abt thin fractures 40° TCA - peripheral bleaching. 52.5 - 53.3 vis 48.7 - 50. 60-65 Quartz veining 45° + 0° TCA. Quartz veins have minor peripheral bleaching and silicification. 64 - 71 Some brecciation and fracturing with associated bleaching and silicification.

71 - 78.4 Grey fg quartz, lithic sand stone with minor thin silt layers. 72.6 10cm quartz + silt st shear zone. Lamination surfaces have slicken sides - 80° TCA. Some minor fracturing 60° TCA.

78.4 - 79 (TD) Grey, green laminated slt st. 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 sand stone (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 sand stone + quartz veining. Broken ground.

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

28.6 - 31.4 Gy, fg sand stone. 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 silt stone. Lamination 90° TCA. Some movement - elongation lineations on lamination planes.

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

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

41.4 - 46.0 Cream - grey fg, quartz lithic sand stone. 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) sand stone/ slt stone and fracturing 45° & 60° TCA.

46 - 47 Silt stone vis 43.5 - 48.

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

GOLDEN RIDGE  
SCAMANDER  
BRILLIANT PROSPECT  
GEOLOGICAL LOGS

GRD004

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		
0.00	3.10	Snd St		CR	Mn	Fe	fg		fractures	70	Fe staining				Abt Fe
3.10	3.20	Breccia			Fe				fault		Fe staining				Ox/d; abt Fe stain esp in & around fracs; some Mn on f.surfs
3.20	9.30	Snd St		CR	Mn	Fe	fg		fractures	70	Fe staining				Qu, lithic
9.30	15.30	Snd St		GY CR	Fe	Si	vfg		fractures	30,100&160					Qu, lithic; strong Fe staining
15.30	15.60	Snd St		GY CR	Fe	Si	vfg		strongly frac/d	70					Qu, lithic
15.60	16.60	Snd St		GY CR	Fe	Si	vfg		fractures	30,100&160					
16.60	19.00	Slt St		GY GR CR	Fe	Si			laminations	40					Si/d
19.00	19.30	Breccia			Si	Fe									
19.30	20.30	Slt St		GY GR CR	Fe	Si			fault zone =20m						Broken ground; brecciated. Much Fe staining
20.30	22.40	Slt St		GY GR CR	Fe	Si			highly frac/d						23.3m = 5cm band Si/d Slt St
22.40	28.70	Slt St		GY GR	Fe	Si			fractures	60 & 120					Fe staining
28.70	29.00	Breccia			Fe	Si			fault						
29.00	33.60	Snd St		CR GY	Fe	Si			fractures	40 & 135					
33.60	34.70	Slt St		GY GR	Fe	Si									Interbed/d Snd St (<=70cm)/Slt St (<=40cm). Snd St=Qu,lithic
34.70	43.50	Snd St	Slt St		Fe	Si			frac / bed	30&120/60					Qu, lithic; rare 10cm Slt St layers
43.50	45.40	Snd St		GY GR	Si				frac / bed	60&145/50					Bleached, Si/d
45.40	46.40	Snd St		GY GR	Si				frac / bed	60&145/50					Brecciated
46.40	46.50	Snd St		GY GR	Si				fractures	140&60					Qu, lithic; rare 10cm Slt St layers
46.50	48.70	Snd St		GY GR	Si				frac / bed	60&145/50					Abt thin fractures with peripheral bleaching
48.70	50.00	Snd St		GY GR	Si				fractures	40					Qu, lithic; rare 10cm Slt St layers
50.00	52.50	Snd St		GY GR	Si				frac / bed	60&145/50					Abt thin fractures
52.50	53.30	Snd St		GY GR	Si				fractures	40	Periph bleach				Qu, lithic; rare 10cm Slt St layers
53.30	60.50	Snd St		GY GR	Si				frac / bed	60&145/50					60.5m = Vn 45 TCA; 60.5-61.8m = Vn 0 TCA
60.50	61.80	Snd St		GY GR	Si				fractures	45	Periph bleach	Qu	0 & 45 (1cm)		Qu, lithic; rare 10cm Slt St layers
61.80	62.20	Snd St		GY GR	Si				frac / bed	45 / 50					
62.20	62.60	Snd St		GY GR	Si				fractures	45	Periph bleach	Qu	0 (1cm)		Qu, lithic; rare 10cm Slt St layers
62.60	63.00	Snd St		GY GR	Si				frac / bed	45 / 50					Vugular Qu vein; minor Si/n
63.00	63.60	Snd St		GY GR	Si				fractures	45	Periph bleach	Qu	0 (1cm)		Minor brecciation; Si/d Snd St
63.60	65.10	Snd St		GY GR	Si				frac / bed	45 / 50					Qu, lithic; rare 10cm Slt St layers
65.10	65.40	Snd St		GY GR	Si				frac / bed	45 / 50					Qu, lithic; rare 10cm Slt St layers
65.40	66.80	Snd St		GY GR	Si				frac / bed	45 / 50					Minor bleaching & Si/n
66.80	66.90	Snd St		GY GR	Si				frac / bed	45 / 50					Qu, lithic; rare 10cm Slt St layers
66.90	67.00	Snd St		GY GR	Si				frac / bed	45 / 60					Qu, lithic; rare 10cm Slt St layers
67.00	68.20	Snd St		GY GR	Si				frac / bed	45 / 60					Minor brecciation
68.20	68.40	Snd St		GY GR	Si				frac / bed	30&120/60					Qu, lithic; rare 10cm Slt St layers
68.40	68.70	Snd St		GY GR	Si				frac / bed	30&120/60					Brecciation; some Qu invasion in breccia; bleaching & Si/n
68.70	69.00	Snd St		GY GR	Si				frac / bed	30&120/60					Qu, lithic; rare 10cm Slt St layers
69.00	69.50	Snd St		GY GR	Si				frac / bed	30&120/60					Brecciation; some Qu invasion in breccia
69.50	70.00	Snd St		GY GR	Si				frac / bed	30&120/60					
70.00	71.00	Snd St		GY GR	Si				fractures	40 / 60	Periph bleach				Qu, lithic; minor thin Slt St layers
71.00	72.60	Snd St		GY	Si		fg								
72.60	78.40	Snd St	Slt St	GY	Si				fractures	60					
78.40	79.00	Slt St		GY GR	Si				lam / frac	60 / 60					

344027