

DRILL HOLE No VR-009

SHEET 1 OF 11

Survey Depth	Azimuth	Dip	Hole Co-ordinates	GPS only GDA94
			Easting_	588835 m E
			Northing_	5388380 m N
			Elevation (m)	788 m (scaled)
			Azimuth_ Mag	
			Dip	

PROJECT:	VALLEY ROAD FINGAL
PROSPECT:	EA 16 / 2010
DATE:	23/7/12
LOGGED BY:	RM / OD

Spauldings Truck mounted DR2H Rig DRIVER JAMIE FIELDING
PERCUSSION DRILLING pinch hammer step bit → Trach hole

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG						GEOLOGY NOTES	SUMMARY LOG	
				PREFIX	%					STRUCT	ALT	mm							
					.1	.3	1	3	5			0.06	0.5	2	8	32			64
2																	REGOLITH Orange brown oxidised clays and dolerite fragments		
4																	8" steel casing to 6m		
6																	DOLERITE		
8																	Grey medium grained dolerite chips.		
10																	No apparent clay fill or oxidised soils.		
12																			
14																			
16																			
18																			
20																			
22																			
24																			
26																			
28																	Water into hole at 28m		
30																			
32																			
34																			
36																			
38																			
40																			
REMARKS																			

HARD ROCK COAL MINING

DRILL HOLE No VR-009

SHEET 2 OF 11

Survey Depth	Azimuth	Dip	Hole Co-ordinates
			Easting
			Northing
			Elevation (m)
			Azimuth_Mag
			Dip

PROJECT: <u>VALLEY ROAD FINGAL</u>
PROSPECT: <u>FL 16/2010</u>
DATE: <u>23/7/12</u>
LOGGED BY: <u>RM/DD</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG
				PREFIX	%				STRUCT	ALT	mm						
					.1	.3	1	3			5	0.06	0.5	2	8		
42																	
44																	
46																	
48																	
50																	
52																	
54																	
56																	
58																	
60																	
62																	
64																	
66																	
68																	
70																	
72																	
74																	
76																	
78																	
80																	
REMARKS																	

Noticable change in colour
of percussion chips between
50 - 150m
Below 50m chips are dark
grey, but lighten progressively
downwards.
Possibly caused by increasing
volumes of plagioclase in the
dolerite.

HARD ROCK COAL MINING

DRILL HOLE No VR 009

SHEET 4 OF 11

Survey Depth	Azimuth	Dip	Hole Co-ordinates
			Easting_
			Northing_
			Elevation (m)
			Azimuth_Mag
			Dip

PROJECT: VALLEY ROAD FINGAL
 PROSPECT: EL 16 / 2010
 DATE: 25/7/12
 LOGGED BY: Rm/DD

HOLE DEPTH	CORE RECOVERY	RQD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG	
				PREFIX	%				STRUCT	ALT	mm							
					.1	.3	1	3			5	0.06	0.5	2	8			32
122																		
124																		
126																		
128																		
130																		
132																		
134																		
136																		
138																		
140																		
142																		
144									✓									* White veining evident in percussion chips 144-147m
146																		* Chloritic alteration in chips 147-150m
148																		
150																		also 180-192m
152																		in parts green colour to chips and sandy chip samples
154																		
156																		
158																		
160																		
REMARKS																		

* White veining evident in percussion chips 144-147m

* Chloritidization alteration in chips 147-150m

also 180-192m

imparts green colour to chips and sandy chip samples

HARD ROCK COAL MINING

DRILL HOLE No VR 009

SHEET 5 OF 11

Survey Depth	Azimuth	Dip	Hole Co-ordinates
			Easting
			Northing
			Elevation (m)
			Azimuth_Mag
			Dip

PROJECT: VALLEY ROAD FINGAL
 PROSPECT: EL16/2010
 DATE: 26/7/12
 LOGGED BY: RM100

HOLE DEPTH	CORE RECOVERY	RQD	SAMPLE NO	PREFIX	SULPHIDES %	PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG										
						STRUCT	ALT													
					.1	.3	1	3	5											
162																				
164																				
166																				
168																				
170																				
172																				
174																				
176																				
178																				
180																				
182																				
184																				
186																				
188																				
190																				
192																				
194																				
196																				
198																				
200																				
REMARKS																				

• Driller reported cavity 162-80m
300mm width

Base Dolerite @ 196m

200mm DR percussion drilling
continuing into Coal Measures.

SANDSTONE; Indurated, dark grey black,
fine-grained, lithic

HARD ROCK COAL MINING

DRILL HOLE No VR 009

Survey Depth	Azimuth	Dip	Hole Co-ordinates
			Easting_
			Northing_
			Elevation (m)
			Azimuth_ Mag
			Dip

SHEET 7 OF 11

PROJECT: VALLEY ROAD FINGAL

PROSPECT: EL 16 / 2010

DATE: 14 SEPT 2012

LOGGED BY: KM/KM

HOLE DEPTH	CORE RECOVERY	RQD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG	
				PREFIX	%					STRUCT	ALT	mm						
					.1	.3	1	3	5			0.06	0.5	2	8			32
242															228-242.5m SANDSTONE, LITHIC, FINE GRAINED			
244															242.5-243.5m MUDSTONE, DARK GREY			
246															243.5-244m CARBONACEOUS MUDSTONE MINOR COAL			
248															244-250.5m MUDSTONE and CARBONACEOUS MUDSTONE INTERBEDDED 50:50			
250																		
252															251.5m-252.5m COAL, DULL TOP 'A SEAM'			
254										COAL SEAM A					252.5-253.5m MUDSTONE / COAL			
256															253.5-254.5m COAL			
258															254.5-255.5m MUDSTONE MEDIUM GREY			
															255.5-256.5m COAL, BASE OF 'A SEAM'			
															256.5-258.8m MUDSTONE, SILTY			
260	100	100								x 68°					258.90 258.8 = START HQ3			
	100	100													258.8-258.9m soft puggy low grade coal			
262	100	100													258.90-270.95m			
	100	100													REPEATED FINING UP CYCLES OF COARSE AND MEDIUM LITHIC SANDSTONE WITH MINOR MUDSTONE			
264	100	100													PEBBLE CONGLOMERATE BEDS AND MINOR COAL FLASERS AND ANGULAR FRAGMENTS			
	100	100																
266	80	65								x 15°								
	100	96								x 60°								
268	100	100																
	100	100																
270	100	100																
	100	74																
272	100	80													270.95 270.95-271.45m			
	100	83													CARBONACEOUS MUDSTONE AND MINOR GREY MUDSTONE WITH SOFT SEDIMENT DEFORMATION.			
274	100	0													271.45-272.74m			
	100	0								x 85°					FINING UP COARSE TO MEDIUM LITHIC SANDSTONE WITH MINOR MUDSTONE			
276	100	27								x 80°					PEBBLE CONGLOMERATE AND REWORKED COAL BANDS.			
	100	100													272.74-275.70m			
278	100	80													275.70 275.70-277.43m			
	100	42													MASSIVE TO THINLY LAMINATED CARBONACEOUS MUDSTONE - MINOR SILT INTERBEDS			
280	100	30								COAL SEAM B					277.43 277.43-277.61			
															277.61 277.61-277.88m			
															FINING UP COARSE TO MEDIUM LITHIC SANDSTONE WITH THIN CARBONACEOUS MUDSTONE INTERBEDS AT TOP OF UNIT			
															AND 9cm MUDSTONE AND COAL PEBBLE CONGLOMERATE BASE.			
															277.88-277.91m			
															INTERBEDDED BROWN/GREY CLAYSTONE			

REMARKS

REMARKS

SHEET 8 OF 11

PROJECT: VALLEY ROAD FINBAC
PROSPECT: EL 16/2010
DATE: 14 SEPT 2012
LOGGED BY: RM / KM

[illegible]

DRILL HOLE No VR 009

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
			Easting_	
			Northing_	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

SHEET 9 OF 11

PROJECT: VALLEY ROAD FINGAL
PROSPECT: EL 16 / 2010
DATE: 19 Sept 2012
LOGGED BY: RM

[illegible]

DRILL HOLE No VR 009

SHEET 10 OF 11

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
			Easting_	
			Northing_	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT: VALLEY ROAD FINGAL
PROSPECT: EL 16 / 2010
DATE: 25 September 2012
LOGGED BY: RM

HOLE DEPTH	CORE RECOVERY	RCD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG	
				PREFIX	%					STRUCT	ALT	mm						
					.1	.3	1	3	5			0.06	0.5	2	8			32
	100	100															359.87 - 374.83m	
362	100	100															Medium to coarse grained lithic sandstone, fining up sequences	
364	100	100															360.15 - 360.27m band of carbonaceous mudstone fragments in a sandstone matrix	
366	100	100															362.90 - 363.40m Some fine carbonaceous mudstone bands interbedded with sandstone	
368	100	100															369.67 - 370.14m Carbonaceous mudstone fragments in a coarse sandstone	
370	100	82															373.60 - 373.99m Carbonaceous mudstone band.	
372	100	100															373.99 - 374.83m Some carbonaceous mudstone fragments and minor coal glaser beds in a medium grained sandstone	
374	100	88															374.83 - 375.55m	
376	107	25															375.55m Interbedded carbonaceous mudstone, dull coal, siltstone and minor bright coal 375.18 - 375.37m good	
378	100	25															376.39 - 376.89m Expanding and swelling grey mudstones	
380	100	30															377.20 - 377.20m Interbedded carbonaceous mudstone, grey mudstone, coal and minor dirt bands	
382	100	0															376.76 - 376.79m Coal 5% bright	
384	105	36															376.83 - 376.97m Coal 5% bright	
386	100	100															379.87 - 379.87m Grey mudstone, increasingly carbonaceous from 379.35 - 379.52m	
388	100	100															379.87 - 382.05m COAL SEAM F	
390	100	100															382.05 Good quality coal dull 30% bright	
392	100	100															383.39 Traces of dirt bands and minor siltstone	
394	100	95															384.12 Interbeds, stony at base	
396	100	100															382.05 - 383.39m Some stony coal, mostly a grey mudstone, increasingly silty to base of unit	
398	100	100															383.39 - 384.12m Siltstone with minor grey mudstone interbeds.	
400	95	44															384.12 - 399.13m Medium to coarse grained lithic sandstone - fining up cycles -	
																	399.13 - 399.61m Stony coal, dirt band, minor carbonaceous mudstone bands	
																	399.61 - 401.02m Siltstone and minor grey mudstone	
REMARKS																		

