

# HARD ROCK COAL MINING

DRILL HOLE No VR 010

Survey Depth	Azimuth	Dip	Hole Co-ordinates
RIG: DR2H			GPS: GDA94
			Easting_ 588198 E
			Northing_ 5390246 N
			Elevation (m) 539m SCALED
			Azimuth_Mag 0
			Dip -90

SHEET 1 OF 5

GERALD SPAULDING DRILLERS

PROJECT: VALLEY ROAD FINAL

PROSPECT: EL 16/2010

DATE: 02/08/2012

LOGGED BY: ROWENA; DRILLER: JAMIE FIELDING

ACID MINE DRAINAGE SAMPLE HOLE

200mm DOWN HOLE HAMMER- OPEN 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
2															REGOLITH 0-3m Orange brown oxidised clays			
4															DOLERITE TALUS 3-24m Orange brown oxidised clays with dolerite fragments			
6																		
8																		
10															Dolerite fragments in clays and sands			
12																		
14															Dolerite fragments in orange oxidised clays			
16															Dolerite fragments in sticky clays			
18															Clays now a mustard-cream colour with dolerite fragments			
20															Dolerite fragments = 90% of sample			
22															10" COLLAR STEEL TO 22m → 8" steel casing to 22m Angular dolerite fragments in v. minor clay			
24															BASE OF DOLERITE TALUS			
26															24-30m TOP COAL MEASURES - TRIASSIC - stained sandstone fragments and chert-like material in clays. Slight grey staining of clays. Indurated sandstone			
28																		
30															30-32m finer siltstone grey chips in a yellow clay.			
32															32-38m sandstone fragments Coarse grained!			
34																		
36																		
38															38-41m Grey mudier carbonaceous mudstone fragments.			
40																		
REMARKS																		
Logging percussion chips Sampling every meter from 24m; samples in freezer for AMD selection.																		



# HARD ROCK COAL MINING

DRILL HOLE No VR 010

SHEET 2 OF 5

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

PROJECT: VALLEY ROAD FINGAL

PROSPECT: EL 16/2010

DATE: 02/08/2012

LOGGED BY: RM

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO PREFIX	SULPHIDES %					PICTORIAL LOG		GRAPHIC LOG mm 0.06 0.5 2 8 32 64	GEOLOGY NOTES	SUMMARY LOG
				.1	.3	1	3	5	STRUCT	ALT			
42												41-43m Minor coal with carbonaceous mudstone fragments (10% coal)	
44												43-44m Carbonaceous mudstone with trace coal (5%) • driller informed position of water table at 44m	
46												44-49m Mudstone and clays	
48													
50												49-50m Grey mudstone and minor sandstone in clays	
52												50-57m Coarse sandstone fragments in minor white/cream clay	
54													
56													
58												57-59m Sandstone fragments with minor grey mudstone chips	
60												59-61m Grey mudstone with minor to some coal (20%)	
62												61-64m Carbonaceous mudstone with grey mudstone fragments	
64												64-65m Carbonaceous mudstone with minor coal	
66												65-67m Grey mudstone and some carbonaceous mudstone	
68												67-68m Grey mudstone	
70												68-69m Carbonaceous mudstone with some coal	
72												69-70m Grey mudstone with some carbonaceous mudstone	
74												70-71m Carbonaceous mudstone, coal and minor grey mudstone	
76												71-75m Carbonaceous mudstone + grey mudstone	
78												75-76m Grey mudstone with minor sandstone	
80												76-85m Washed out sandstone. Very small samples recovered between 76-79m (?) Coarse sandstone, grainy appearance	

REMARKS



DRILL HOLE No VR 010

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

SHEET 3 OF 5

PROJECT:	Valley Road Fingal
PROSPECT:	EA 16/2010
DATE:	02/08/2012
LOGGED BY:	Rm

HOLE DEPTH	CORE RECOVERY	RQD	SAMPLE NO PREFIX	SULPHIDES	PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
				% .1 .3 1 3 5	STRUCT	ALT	mm 0.06 0.5 2 8 32 64		
82									
84									
86								85-87m Sandstone and mudstone fragments.	
88								87-88m Carbonaceous + grey mudstone	
90								88-89m Grey mudstone with coal fragments	
92								89-90m Grey mudstone	
94								90-91m Grey siltstone	
96								91-94 Grey sandstone, coarse grained with minor coal (lenses)	
98								94-95m Sandstone and grey mudstone	
100								95-96m Grey mudstone, carbonaceous mudstone and coal fragments	
102								96-97m Carbonaceous mudstone with a trace of coal	
104								97-99m Carbonaceous + grey mudstone.	
106								99-102m Grey mudstone to siltstone.	
108								102-110m Coarse sandstone fragments with minor coal (lenses?)	
110								109-110m trace coal	
112								110-111m Grey mudstone, carbonaceous mudstone and coal (85% coal)	
114								111-112m Grey mudstone, Carbonaceous mudstone, coal (15% coal)	
116								112-113m Grey mudstone, minor carbonaceous mudstone, minor coal (8%)	
118								113-114m Grey mudstone + carbonaceous mudstone	
120								114-120m Grey siltstone	

REMARKS



DRILL HOLE No VR 010

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

SHEET 4 OF 5

PROJECT:	VALLEY ROAD FINGAL
PROSPECT:	EN 16/2010
DATE:	02/08/2012
LOGGED BY:	RM

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES	PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
					STRUCT	ALT			
				%			mm		
				.1 .3 1 3 5			0.06 0.5 2 8 32 64		
122								120-121m Carbonaceous + grey mudstone	
124								121-123m Minor grey mudstone with carbonaceous mudstone and coal good quality	
126								123-127m Grey and carbonaceous mudstone with remnant coal	
128								127-129m Grey mudstone with traces of sandstone.	
130								129-140m Quartz lithic sandstone, with some contaminated fragments from up hole.	
132									
134									
136									
138								138-139m sandstone with traces coal (fingers?)	
140								140-143m Grey mudstone and siltstone with minor carbonaceous mudstone.	
142								143-154m Cream lithic sandstone.	
144									
146									
148								148-149m traces of coal (fingers?)	
150									
152								151-152m traces of coal (fingers?)	
154								154-156m Lithic sandstone with traces of calcite(?) white coarse fragments.	
156								156-157m Very small sample recovered fine sandstone smashed up.	
158								157-158m sandstone trace coal	
160								158-159m very good quality coal	
								159-160m Bright coal in minor siltstone.	

REMARKS

V = veining(?)



# HARD ROCK COAL MINING

DRILL HOLE No VR 010

SHEET 5 OF 5

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

PROJECT: VALLEY ROAD FINOAL

PROSPECT: FL 16/2010

DATE: 02/08/2012

LOGGED BY: *Rm* *DD*

HOLE DEPTH	CORE RECOVERY	RQD	SAMPLE NO	SULPHIDES	PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
					STRUCT	ALT			
PREFIX	%						mm		
	.1	.3	1	3	5		0.06 0.5 2 8 32 64		
162								160-161m Silty sandstone with traces of coal	
164								161-162m Silty sandstone	
166								162-163m 50% coal, 50% grainy sandstone	
168								163-165m Grey siltstone	
170								165-166m Siltstone with some mudstone fragments	
172								166-169m Grey siltstone	
174								169-170m Siltstone with coal traces	
176								170-171m Carbonaceous mudstone, siltstone and traces of coal	
178								171-172m Siltstone + sandstone with minor carbonaceous mudstone	
180								172-175m Sandstone with minor carbonaceous mudstone. Occasional traces coal (fossils?)	
182								175-177m Sandstone and some grey mudstone.	
184								177m-178m traces coal in sandstone and mudstone	
186								178-181m Grey siltstone	
188								FOH 181.00m	
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