

# Appendix A

## Mt Slaughter drill holes - locality details, 1:200 geological logs and 1:20 graphic log of coal seam

MS-01		2
MS-02		11
MS-02	1:20 Graphic log of coal seam	20

## Drill Hole MS-01

GPS
<b>0575 906mE</b>
<b>5376 708mN</b>
785mRL-scaled
<b>Stacpoole Drilling</b>
<b>B90 truck mounted rig</b>
<b>T.Lodge-driller</b>
Down hole hammer chips to 111.0m
HQ3 core from 111.0- 354.85

# HARD ROCK COAL MINING

DRILL HOLE No MS 01

SHEET 2 OF 9

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

PROJECT:	<u>MT Slaughter</u>
PROSPECT:	<u>L17/2010</u>
DATE:	<u>9/7/2013</u>
LOGGED BY:	<u>RM/DD</u>

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		
42																	
44																	
46																	
48																	
50																	
52																	Steel grey dolerite
54																	
56																	
58																	
60																	Trace white opaque vein material
62																	
64																	63-69m Discoloured slightly weathered dolerite - possible fracture
66																	Terry " hole producing 1500 litres/hour
68																	
70																	69m fresher looking grey dolerite
72																	72-76m Harder dolerite - slow drilling
74																	
76																	
78																	
80																	
REMARKS																	



# HARD ROCK COAL MINING

DRILL HOLE No MS 01

SHEET 4 OF 9

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

PROJECT: <u>MT SLAUGHTER</u>
PROSPECT: <u>EL17/2010</u>
DATE: <u>16/7/2013</u>
LOGGED BY: <u>RM/DD</u>

HOLE DEPTH (m)	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG				GEOLOGY NOTES	SUMMARY LOG
				PREFIX	1	3	1	3	5	STRUCT	ALT	0.06	0.5	2		
99																
122	100								Jx12	x2						Negligible water loss from hole.
99									Jx30							
124	100								Jx45	x2						
100									Jx32							
126	100								Jx47	x7						Dolerite, medium-coarse grained, fresh.
101									Jx12							
128	100								Jx25							
100									Jx24							
130	100								Jx37							Occasional zones of iron-stained + Mn-stained joints.
100									Jx65							Zeolite veinlets common in joints, occasional sparse carbonate coating on joints
132	102								Jx50	x4						
98									Jx65							
134	100								Jx12	x6						
98									Jx5							
136	102								Jx50							
100									Jx36							
138	95								Jx70							
105									Jx32							
140	100								Jx60	x2						
100									Jx30							
142	100								Jx45	x6						
100	35								Jx60							
144	107	100							Jx40	x3						Increased iron staining 192m - 141-85 - 152-70m: stained medium to coarse crystal grain size dolerite. zeolite infill
100	10								Jx20°							
146	107	42							α 130°							
100	35								α 70°							zeolite infill
148	99	35							α 55°							
100	20								α 20°							
150	94	0							α 125°							
86	52								α 10°							epidote along joint 2mm zeolite infill sealed.
152	100	10							α 14°							
100	74															152-70 - 163-20m medium crystal grained dolerite with minor veinlets - closed.
154	100	100														
95	95															
156	98	87														
80	30								α 21°							dealed.
158	100	55														
100	100															
160	100	75														

REMARKS V = vein v = veinlet J = joint  
α = core structural plane angle.

# HARD ROCK COAL MINING

DRILL HOLE No MS 01

SHEET 5 OF 9

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

PROJECT: <u>MT SLAUGHTER</u>
PROSPECT: <u>EL 17 / 2010</u>
DATE: <u>22/07/2013</u>
LOGGED BY: <u>RM/DD</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG	
				PREFIX	%	1	3	5	STRUCT	ALT	0.05	0.1	0.2	0.5	1			2
100	100	90																
162	100	93																
	100	100																
164	100	40							} $\alpha V 2-12^\circ$								163.20 - 165.85m large vein infilled with up to 4cm zeolite and coloured clay alteration; open	
	100	0																
166	100	15																165.85 - 172.00m medium crystal grained dolerite
	102	41																
168	100	43							$\alpha V 26^\circ$									
	100	75							$\alpha J 11^\circ$									
170	100	70							$\alpha V 13^\circ$									
	100	63																
172	100	60																172.00 - 184.00m stained dolerite
	100	60							$\alpha V 15^\circ$									172.50 - 172.80m vein infilled with up to 3mm zeolite; open.
174	100	35																
	100	62							$\alpha J 22^\circ$									
176	100	92																
	100	75																
178	100	100																
	105	100																
180	100	10							$\alpha V 5^\circ$									179.10 - 180.50m vein infilled with up to 3mm zeolite; open.
	100	50																
182	100	94																
	100	65							$\alpha J 5-10^\circ$									182.80 - 183.85 infilled joint with up to 2mm fill. Sealed
184	100	55							$\alpha J 45^\circ$									184.00 - 199.80m medium to coarse crystal dolerite
	100	100																
186	100	100							$\alpha J 45^\circ$									
	100	100																
188	100	100							$\alpha J 36^\circ$									
	100	100																
190	100	100																
	100	100																
192	100	100							$\alpha V 75^\circ$									veinlet 4mm zeolite infill - sealed
	100	86							$\alpha V 8^\circ$									veinlet 7mm zeolite infill - sealed
194	100	100																
	100	100																
196	100	100																
	102	100							$\alpha V 12^\circ$									veinlets ~ sealed.
198	100	100																
	100	80																
200	100	100																

REMARKS

# HARD ROCK COAL MINING

DRILL HOLE No MS 01

SHEET 6 OF 9

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

PROJECT: <u>Mt. Slaughter</u>
PROSPECT: <u>KL17/2010</u>
DATE: <u>23/07/2013</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
100	100	100															
202	100	95															
	100	90															
204	100	100															
	100	100															
206	100	100															
	100	100															
208	100	100															
	100	100															
210	100	100															
	100	100															
212	100	100															
	100	100															
214	100	85															
		46															
216	100	68															
	100	100															
218	100	100															
	100	100															
220	100	100															
	100	100															
222	100	100															
	100	85															
224	100	52															
	100	100															
226	100	100															
	100	100															
228	100	100															
	100	100															
230	100	100															
	100	100															
232	100	100															
	100	100															
234	100	100															
	100	100															
236	100	100															
	100	100															
238	100	100															
	100	100															
240	100	100															
REMARKS																	

# HARD ROCK COAL MINING

DRILL HOLE No MS 01

SHEET 7 OF 9

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

PROJECT: <u>Mt Slaughter</u>
PROSPECT: <u>EL17/2010</u>
DATE: <u>26/07/13</u>
LOGGED BY: <u>RM/DD</u>

HOLE DEPTH (m)	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		
	100	100														
242	100	100							rd5							
	100	100							rd5							
244	100	82							rd12							
	100	100							Vd65 x6							
246	100	100							rd5							
	100	100														
248	100	95							Vd65 x2							
	100	100														
250	100	100														
	100	100														
252	100	100							rd5							
	100	100														
254	100	100														
	100	100														
256	100	100							rd12							
	100	100														
258	100	100														
	100	100							rd80 x2							
260	100	96							rd80 x2							
	100	100														
262	100	100							Jd55							
	100	100														
264	100	100														
	100	100														
266	100	100														
	100	100														
268	100	100							rd70							
	100	100														
270	94	100							rd70 x3							
	100	100														
272	100	100														
	101	100														
274	100	100							rd5							
	100	100														
276	102	100							Vd65							
	100	100														
278	100	100							rd12							
	102	100							rd12							
280	100	100							rd70 x2							
REMARKS																

# HARD ROCK COAL MINING

DRILL HOLE No MS 01

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

SHEET 8 OF 9

PROJECT: <u>Mt Slaughter</u>
PROSPECT: <u>EL17/2010</u>
DATE: <u>26/07/13</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	0.25	0.5			2
	100	100															
282	101	100							Vd65							- Indistinct banding from 281.8m - 290m (possibly drilling-induced in finer grained hard dolerite)	
	99	100							Vd12								
284	100	100							Vd5								
	100	100							Vd12								
286	100	100															
	100	100															
288	99	100															
	101	100							Vd5								
290	100	100															
	100	100							Vd5								
292	100	100															
	100	100															
294	101	100															
	100	100															
296	100	93							Jd45								
	101	100							Vd40 x2								
	101	100							Vd50								
	101	100							Vd12								
298	100	78							Vd40 x2							10mm zeolite infill	
	100	80							Vd15							2mm zeolite infill	
	100	80							Vd50								
	100	100							Jd35								
300	100	100															
	100	100															
302	100	100							Vr10							closed veinlet	
	100	92							Vr25°								
304	100	67														Finer crystal size steel grey dolerite increasing in magnetic response with depth.	
	100	80														Some near vertical closed veinlets and some open infilled joints.	
306	100	95															
	100	95															
308	100	100															
	100	100															
310	100	100															
	100	100															
312	100	100															
	100	68							Vj10°							Chlorite clay infill	
314	100	100															
	100	100															
316	100	85							Vj2°							315.85 - 318.20 2mm zeolite infill	
	100	0															
318	100	20															
	100	75															
320	100	100															
REMARKS																	

# HARD ROCK COAL MINING

DRILL HOLE No MS 01

SHEET 9 OF 9

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

PROJECT: <u>ME. Slaughter</u>
PROSPECT: <u>EL 17/2010</u>
DATE: <u>1/8/13</u>
LOGGED BY: <u>RM/DD</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG				GEOLOGY NOTES	SUMMARY LOG
				%	1	3	5	STRUCT	ALT	0.01	0.1	1	10			
322	100	90														
	100	0														
324	100	55							$\alpha J 4^{\circ}$							
	100	0														
326	100	30														
	100	80														
328	97	0							$\alpha J 4^{\circ}$							
	100	12														
330	100	42							$\alpha J 25^{\circ}$							
	100	22							$\alpha J 16^{\circ}$							
332	100	54							$\alpha J 20^{\circ}$							
	100	65							$\alpha J 17^{\circ}$							
334	100	85														
	100	52														
336	100	60							$\alpha J 12^{\circ}$							
	100	55							$\alpha J 12^{\circ}$	chloritic clays						
338	100	65							$\alpha J 15^{\circ}$							
	100	79														
340	100	63							$\alpha J 70^{\circ}$							
	102	90							$\alpha b 88^{\circ}$							
342	100	77							$\alpha b 75^{\circ}$							
	100	75														
344	101	35							$\alpha b 85^{\circ}$							
	100	20														
346	100	90							$\alpha J 12^{\circ}$							
	100	91							$\alpha b 27^{\circ}$							
348	100	100							$\alpha b 82^{\circ}$							
	100	73														
350	100	0							$\alpha J 20^{\circ}$							
	100	15							$\alpha b 88^{\circ}$							
352	100	43							$\alpha b 85^{\circ}$							
	100	55														
354	100	85							$\alpha b 82^{\circ}$							
	85	72														
REMARKS: <u>099</u> 344-22 - 345-22m <sup>reworked</sup> coarse quartz conglomerate. Fragments up to 3mm in diameter.																

## Drill Hole MS-02

GPS
<b>0577 888mE</b>
<b>5376 740mN</b>
720m RL-scaled
<b>Stacpoole Drilling</b>
<b>B90 truck mounted rig</b>
<b>T. Lodge-driller</b>
HQ3 core from 0-309.9m

# HARD ROCK COAL MINING

DRILL HOLE No MS 02

Survey Depth	Azimuth	Dip	Hole Co-ordinates	GPS-GDA94
			Easting	577888 m
			Northing	5376740 m
			Elevation (m)	720 (scaled)
			Azimuth_Mag	0
			Dip	-90

SHEET 1 OF 8

PROJECT:	MOUNT SLAUGHTER
PROSPECT:	EL17/2D10
DATE:	12/08/2013
LOGGED BY:	MURCOTT / DELANEY

Truck-mounted Universal Mobile B90 Rig, Steepool Drilling, Driller: T. Lodge

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
				%	1	3	3	5	STRUCT	ALT			
2	0										HQ 3 coring from surface. Bit: Asahi red.		
4	0										0-9m: No core. Drillers reported orange-red mud and DOLERITE cobbles. (TALUS)		
6	0												
8	0												
10	90	0											
	100	23											
12	52	0											
	38	10											
14	25	0											
	50	0											
16	94	11											
	52	0											
18	26	0											
	100	13											
20	70	10											
	90	12											
22	95	0											
	100	0											
24	100	0											
	100	0											
26	100	22											
	100	56											
28	100	100											
	100	100											
30	100	100											
	100	93											
32	100	100											
	100	100											
34	100	100											
	100	100											
36	100	100											
	100	100											
38	100	100											
	80	72											
40	100	45											
REMARKS													
Trassic Coal Measure rocks commence at 26.4m.													

# HARD ROCK COAL MINING

DRILL HOLE No MS 02

SHEET 2 OF 8

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

PROJECT: <u>ME SLAUGHTER</u>
PROSPECT: <u>KL 17 / 2010</u>
DATE: <u>16/08/2013</u>
LOGGED BY: <u>MURCOTT / DELANEY</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
				PREFIX	%	1	3	5	STRUCT	ALT			
100	96												
42	100	100							$\alpha 84^{\circ} b$			41.87 - 51.05m SANDSTONE; light grey fine-medium grained muddy/dirty flaser banding	
100	100											43.40m cross-bedding	
44	100	100							$\alpha 83^{\circ} b$			Coaly bedding up to 3mm in thickness	
100	100											Grading into a coarser sandstone around 46m	
46	100	100										47.45 large pebble sandstone 6cm in diameter	
100	100											47.97 - 48.14m mudstone band	
48	96	82										48.90 - 49.02m reworked breccia mudstone fragments in cs matrix	
100	100											51.05 - 51.75m SANDSTONE with coal bands & fragments	
50	100	100							$\alpha 65^{\circ} b$			51.75 - 54.65m SANDSTONE medium grained dirty - featureless	
100	100											54.65 - 67.92m SANDSTONE - pale grey, medium grained grading coarser with depth	
52	100	100										Some coal flasers and slumped mudstone bands	
103	100											59.27 - 59.80 siltstone with reworked mudstone fragments	
54	100	100							$\alpha 47^{\circ} j$			59.80 - 67.92m Medium to coarse sandstone with rare coal beds and flasers	
100	100												
56	102	100											
100	96												
58	100	97							$\alpha 87^{\circ} b$				
100	95												
60	100	90											
100	52												
62	100	100											
100	95												
64	96	100											
100	100												
66	102	80											
100	94												
68	98	83							$\alpha 65^{\circ} j$				
100	95												
70	100	82							$\alpha 80^{\circ} b$				
101	90												
72	100	100							$\alpha 15^{\circ} j$				
100	60												
74	100	70							$\alpha 20^{\circ} j$				
100	100												
76	100	100											
100	100												
78	100	85							$\alpha 87^{\circ} b$				
100	100								$\alpha 15^{\circ} j$				
80	100	100											
REMARKS													

# HARD ROCK COAL MINING

DRILL HOLE No MS 02

SHEET 3 OF 8

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

PROJECT: <u>Mc SLAUGHTER</u>
PROSPECT: <u>EL17 / 2010</u>
DATE: <u>16 / 08 / 2013</u>
LOGGED BY: <u>MURCOTT / DELANEY</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
				PREFIX	%	1	3	5	STRUCT	ALT			
82	100	85									80.86 - 81.43m CARBONACEOUS MUDSTONE with coal bands and some coal fragments		
	100	75									81.43 - 87.20m SANDSTONE - light grey		
	105	85									• 82.45 - 82.70m Coal glaser bedding with reworked coal/mudstone fragments at top of unit		
84	100	100									• 86.41m Unusual subglacial qtz fragment		
	100	80									• Coal plasers at base of unit		
86	100	100											
	100	100											
88	99	80									87.20 - 87.41m COAL mostly medium-dull coal some bright		
	100	76									87.41 - 89.82m MUDSTONE / dark grey - coal plasers		
											89.82 - 90.09m COAL very low quality		
90	100	35									• 89.90 - 89.96 Reworked mud breccia / dilt		
	100	95									(volcanic?)		
											90.09 - 90.46m MUDSTONE light grey		
92	100	100									90.46 - 91.73m SILTSTONE light grey, coarsening to a fine sandstone at base of unit		
	100	80									91.73 - 93.45m SILTSTONE mid grey fine muddy siltstone		
94	100	62									93.45 - 97.48 MUDSTONE silty with increasing carbonaceous mudstone beds at base of unit		
	100	100											
96	100	65											
	100	100											
98	100	60									97.48 - 97.92m COAL - Stony dull coal		
	100	15									97.92 - 98.53m MUDSTONE - grey with traces of coal		
											98.53 - 99.00m COAL - dull heavy coal		
100	100	50									99.00 - 101.37m CARBONACEOUS MUDSTONE dark grey to light grading into a siltstone at base of unit		
	100	80									101.37 - 102.29m SILTSTONE - Coal plasers and laminae		
102	100	60									102.29 - 103.12m SANDSTONE at base fine to medium		
	100	95									103.12 - 103.48m COAL light grey		
104	100	55									103.48 - 104.51m SILTSTONE (volcanic?) dull coal with 2cm dilt band		
	100	94									104.51 - 117.90m SANDSTONE - medium grained coarsening to 110m		
106	100	100									109.83 - 110.40m Some reworked mudstone & carb' mudstone clasts in sandstone matrix		
	100	100									• 110.00 - 110.40 Reworked sandstone breccia with mudstone clasts		
112	100	100									• 110.40 - 112.10 Chlorite? alteration frequent coal laminae beds		
	100	100									• 112.10 Massive sandstone		
114	100	100									• 114.10 - 114.30 Rare coal plasers		
	100	100											
116	100	100											
	100	100											
118	100	100									117.90 - 127.40m SANDSTONE abrupt angle contact		
	100	100									Dirty medium to fine grained pale green sandstone - weaker sandstone than unit above - disrupted		
120	100	80											
REMARKS													

# HARD ROCK COAL MINING

DRILL HOLE No MS 02

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

SHEET 4 OF 8

PROJECT: <u>- Mt SLAUGHTER</u>
PROSPECT: <u>EL 17/2010</u>
DATE: <u>19/08/2013</u>
LOGGED BY: <u>MURCOTT / DELANEY / THOMAS</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG				GEOLOGY NOTES	SUMMARY LOG
				PREFIX	.1	.3	1	3	5	STRUCT	ALT	0.06	0.5	2		
100	55															
122	100	76								$\alpha 35^{\circ}$ $\alpha 75^{\circ}$						
	100	40								$\alpha 20^{\circ}$ $\alpha 55^{\circ}$ $\alpha 14^{\circ}$ $\alpha 50^{\circ}$						
124	100	88														
	88	33								$\alpha 20^{\circ}$ $\alpha 86^{\circ}$ $\alpha 80^{\circ}$ $\alpha 86^{\circ}$						
126	99	21														
	99	84														
128	100	100														
	101	100								$\alpha 32^{\circ}$	Ca					
130	100	100														
	100	100														
132	100	71														
	100	35								$\alpha 8^{\circ}$	open					
134	100	60								$\alpha 38^{\circ}$						
	103	85														
136	100	100														
	106	70														
138	100	100														
	93	64									pyrite					
140	100	100								$\alpha 24^{\circ}$						
	100	97														
142	95	70								$\alpha 34^{\circ}$						
	95	52														
144	100	100								$\alpha 86^{\circ}$						
	100	100														
146	100	100														
	102	90								$\alpha 8^{\circ}$						
148	99	100														
	100	100														
150	100	100														
	99	100														
152	100	100														
	101	100														
154	100	100								$\alpha 83^{\circ}$	pyrite					
	100	100														
156	100	100														
	100	100														
158	99	100														
	100	100														
160	100	100								$\alpha 72^{\circ}$						
REMARKS																

# HARD ROCK COAL MINING

DRILL HOLE No ms 02

SHEET 5 OF 8

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

PROJECT: <u>MT SLAUGHTER</u>
PROSPECT: <u>RL 17/2010</u>
DATE: <u>04/09/2013</u>
LOGGED BY: <u>MURCOTT/DXLANEY/THOMAS</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	PREFIX	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG				GEOLOGY NOTES	SUMMARY LOG
					%	.1	.3	1	3	5	STRUCT	ALT	0.05	0.5	2		
	100	100															
162	100	100															
164	100	100															
166	85	27															
168	100	47															
170	100	100															
172	100	83															
174	100	100															
176	100	51															
178	101	100															
180	100	100															
182	101	93															
184	102	86															
186	100	72															
188	100	100															
190	100	100															
192	100	100															
194	100	100															
196	100	100															
198	100	100															
200	100	100															
REMARKS																	





# HARD ROCK COAL MINING

DRILL HOLE No MS 02

SHEET 8 OF 8

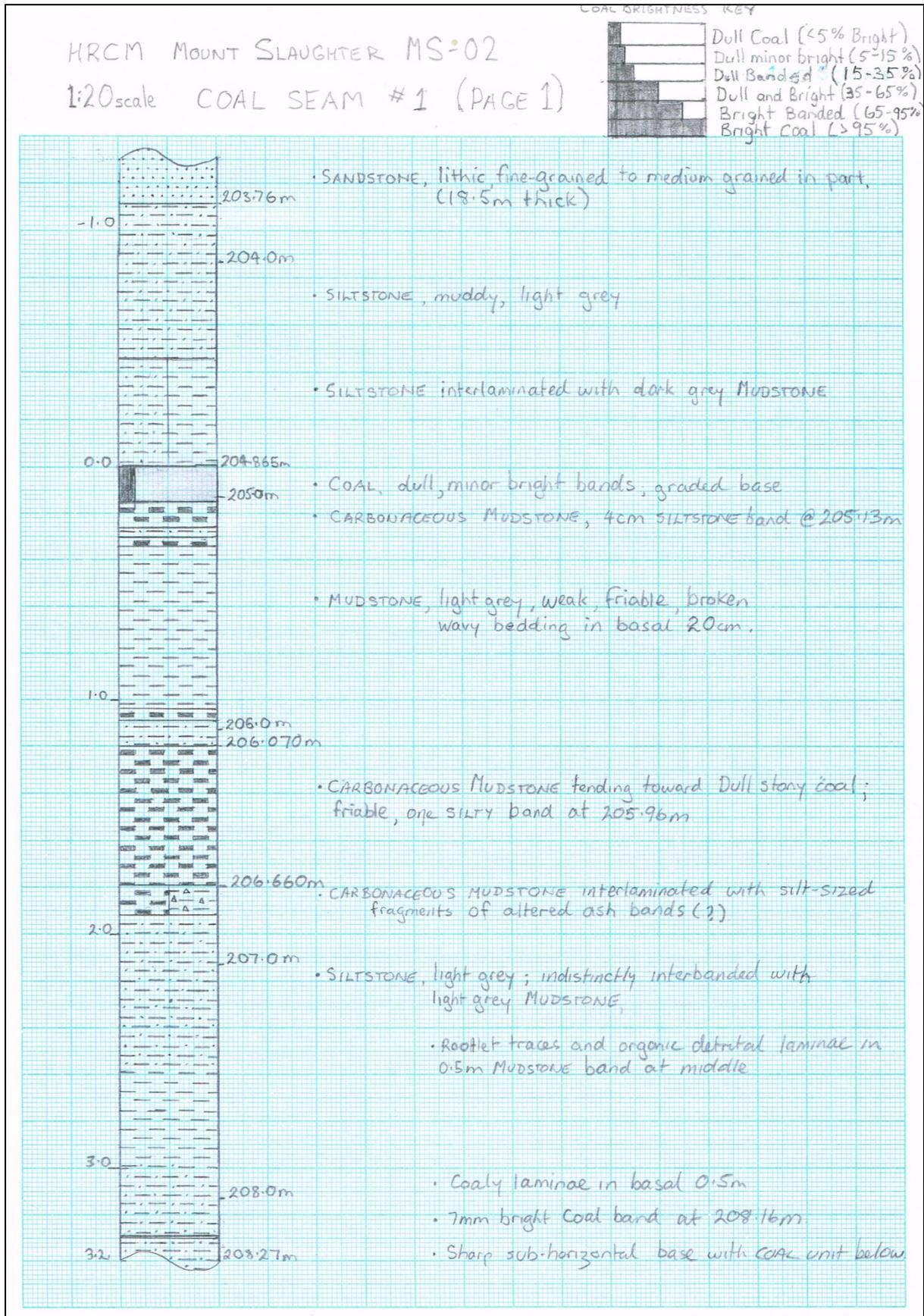
Survey Depth	Azimuth	Dip	Hole Co-ordinates	
			Easting	
			Northing	
			Elevation (m)	
			Azimuth_Mag	
			Dip	

PROJECT: - ME SLAUGHTER
PROSPECT: EL 17/2010
DATE: 16/09/13
LOGGED BY: MURCOTT / DELANEY

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	PREFIX	SULPHIDES				PICTORIAL LOG		GRAPHIC LOG	GEOLOGY NOTES	SUMMARY LOG
					%	1	3	5	STRUCT	ALT			
282	100	100							x b 87°			284.12 - 289.55m SILTSTONE interlaminated with MUDSTONE.	
284	100	90							x b 80°			289.55 - 294.85m SANDSTONE lithic, fine grained, abundant clay laminae.	
284	100	55							x 15°			294.85 - 285.03m MUDSTONE, slightly carbonaceous	
284	100	27							x b 87°			285.03 - 287.32m SANDSTONE, fine-grained lithic, fining upward through siltstone to MUDSTONE at top; sharp base	
286	90	10							x 15°			287.32 - 287.96m MUDSTONE, light grey and grey, irregularly interlaminated.	
288	103	74							x 42°			287.86 - 289.80m SANDSTONE, white, quartzose, fine-medium grained. Wavy clay laminae in 35cm zone at 289.35m	
290	100	0							x b 88°			289.80 - 290.50m SANDSTONE fine-grained interlaminated with MUDSTONE, fines upward, carb at top.	
292	103	40							x 145°			290.50 - 291.91m SILTSTONE / MUDSTONE irregularly interlaminated, MUDSTONE carb in basal 0.6m, weak	
294	100	63							x 172°			291.91 - 292.60m MUDSTONE, dark grey, carb at top. Contains SANDSTONE medium-coarse grained, quartz-lithic, arkosic colouring.	
296	100	70							x 145°			292.6 - 294.25m SILTSTONE, pale grey green	
296	100	54							x 30°			BASE OF COAL MEASURES	
298	100	70							x 140°			294.25 - 297.85m SANDSTONE, grey-green, quartzose, medium-grained, grading to silty top.	
300	100	90							x 40°			297.85 - 299.45m MUDSTONE, grey green stained red brown	
302	100	100							x 80°			299.45 - 306.80m SANDSTONE	
304	100	100							x 86°			Medium grained pale green-grey quartz sandstone. No coal flags.	
306	100	100							x 80°			Unit coarsening to base. White mica evident in ss matrix. Trace of hematite stained mudstone at top of unit.	
308	100	68							x 20°			306.80 - 309.25m MUDSTONE	
310	35	100							J=20			Hematite-stained fine green-grey to red mudstone, medium grey in bottom 0.7m.	
												12cm Band of SANDSTONE, light grey fine grained, quartz-lithic at 309.0m	
												CORE LOSS 309.25 - 309.90m	
												END OF HOLE 309.90m	
												NOTE: BOUNDARY BETWEEN THE COAL MEASURES AND LOWER TRIASSIC FRESHWATER FORMATION IS GRADATIONAL, AS TYPE LITHOLOGIES APPEAR TO INTERFINGER THROUGHOUT THE SEQUENCE FROM 287m.	
REMARKS										* Cross bedding		DEPTH OF 299.25m CHOSEN AS BASE OF COAL MEASURES.	

BASE OF COAL MEASURES

# MS-02 1:20 Coal Seam graphic log



ARCM MT SLAUGHTER MS-02  
 COAL SEAM #1 (PAGE 2)

1mm Squares

