

THE SHELL COMPANY OF AUSTRALIA LTD.

BOREHOLE LITHOLOGICAL DESCRIPTION

GRAY

GY 25

HOLE TYPE	CORE
EASTING	599,975 M AM GRID
NORTHING	5,373,033 M AM GRID
ELEVATION	365.70 M
TOTAL DEPTH DRILLED	594.50 M
DRILLING STARTED	26/ 3/80
DRILLING TIME	
CORE SIZE	63.0 MM
HOLE SIZE	
LENGTH CASED	
INITIAL WATER LEVEL	
WATER LEVEL AT GEOPHYSICAL LOGGING	
DRILLING FLUID	
DRILLING CONTRACTOR	
GEOPHYSICAL LOGGING CONTRACTOR	
LITHOLOGICAL DESCRIPTION BY	
INFORMATION AVAILABLE :	SAMPLES TAKEN ANALYTICAL DATA LITHOLOGICAL DESCRIPTION
PETROPHYSICAL WIRELINE LOGS RUN :	

*** FRAME K10***

BOREHOLE : GY 25

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION *** CORE DESCRIPTION ***
232.70	232.70	100		100% DOLERITE	MED.-FINE GRAINED, LIGHT GREY, WITH CALCITE AND TALC.
234.15	1.45	100		100% DOLERITE	MED.-FINE GRAINED, LIGHT GREY, SLIGHTLY WEATHERED, EXTREMELY STRONG ROCK, CLOSELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 60 DEG., TIGHT PLANAR, ROUGH DISCONTINUITIES.
234.40	0.25	100		100% DOLERITE	VERY FINE GRAINED, GREY-GREEN, SLIGHTLY WEATHERED, VERY STRONG ROCK.
234.45	0.05	100		100% SANDSTONE, MEDIUM GRAINED	GREY-GREEN, MODERATELY WEATHERED, STRONG ROCK.
235.71	1.26	100		100% SANDSTONE, MEDIUM GRAINED	GREY-BROWN, MODERATELY WEATHERED, STRONG ROCK.
235.80	0.09	100		100% SANDSTONE, MEDIUM GRAINED	GREY-BROWN, MODERATELY WEATHERED, STRONG ROCK, WITH MUD PELLETS.
238.86	3.06	100		75% SILTSTONE 25% MUDSTONE	GREY. GREY. MODERATELY WEATHERED, MODERATELY STRONG ROCK.
242.55	3.69	100		80% SANDSTONE, MEDIUM GRAINED 20% SANDSTONE, FINE GRAINED	LIGHT GREY. LIGHT GREY. MODERATELY WEATHERED, STRONG ROCK.
243.18	0.63	100		100% SANDSTONE, MEDIUM GRAINED	YELLOW-GREY, MODERATELY WEATHERED, MODERATELY STRONG ROCK, BASAL CONTACT DEFORMED.
243.23	0.05	100		100% DOLERITE	VERY FINE GRAINED, GREY-GREEN, MODERATELY WEATHERED, VERY STRONG ROCK.
286.70	43.47	100		100% DOLERITE	MED.-FINE GRAINED, GREY, WITH NODULES OF PYRITE, UNWEATHERED, EXTREMELY STRONG ROCK, WIDELY SPACED JOINTS.
286.86	0.16	100		100% DOLERITE	VERY FINE GRAINED, GREY-GREEN, UNWEATHERED, EXTREMELY STRONG ROCK.
289.70	2.84	100		100% SANDSTONE, MEDIUM GRAINED	BAKED, LIGHT GREY, EXTREMELY STRONG ROCK.
289.82	0.12	100		100% SILTSTONE	GREY, STRONG ROCK.
290.23	0.41	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
290.28	0.05	100		100% CARBONACEOUS SHALE	BLACK, MODERATELY STRONG ROCK.
290.32	0.04	100		100% COAL, HEAVY DULL	
290.35	0.03	100		100% CARBONACEOUS MUDSTONE	GREY, MODERATELY STRONG ROCK.
290.56	0.21	100		100% COAL, HEAVY DULL	
290.64	0.08	100		100% MUDSTONE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
290.71	0.07	100		100% COAL, DULL	
290.79	0.08	100		100% MUDSTONE	GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
290.88	0.09	100		100% SHALE	GREY-BROWN, MODERATELY WEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
291.14	0.26	100		100% COAL, HEAVY DULL	
291.24	0.10	100		100% SHALE	GREY, HIGHLY WEATHERED, WEAK ROCK.
291.30	0.06	100		100% COAL, DULL	
291.39	0.09	100		100% CARBONACEOUS SHALE	BLACK, HIGHLY WEATHERED, MODERATELY WEAK ROCK.
291.62	0.23	100		80% SANDSTONE, MEDIUM GRAINED 20% CARBONACEOUS SHALE	LIGHT GREY. BLACK. SLIGHTLY WEATHERED, VERY STRONG ROCK.
292.61	0.99	100		75% SANDSTONE, MEDIUM GRAINED 25% SANDSTONE, COARSE GRAINED	LIGHT GREY. LIGHT GREY. UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
293.05	0.44	100		80% SILTSTONE 20% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. UNWEATHERED, VERY STRONG ROCK, VERY WIDELY SPACED JOINTS.
293.12	0.07	100		100% MUDSTONE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
293.47	0.35	100		100% CARBONACEOUS SHALE	HEAVY DULL COAL, BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
293.50	0.03	100		100% MUDSTONE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
293.84	0.34	100		100% MUDSTONE	GREY, SLIGHTLY WEATHERED, STRONG ROCK.
294.24	0.40	100		100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, STRONG ROCK.
294.27	0.03	100		100% CARBONACEOUS SHALE	BADLY BROKEN, BLACK, HIGHLY WEATHERED, WEAK ROCK.
294.43	0.16	100		50% CARBONACEOUS SHALE 50% SANDSTONE, FINE GRAINED	BLACK. GREY. UNWEATHERED, STRONG ROCK.
294.63	0.20	100		100% MUDSTONE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
294.68	0.05	100		100% CARBONACEOUS SHALE	BLACK, UNWEATHERED, STRONG ROCK.
294.71	0.03	100		100% MUDSTONE	GREY-BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
294.80	0.09	100		100% COAL, HEAVY DULL	CARBONACEOUS, SHALY.
294.84	0.04	100		100% SANDSTONE, FINE GRAINED	GREY-BROWN, UNWEATHERED, VERY STRONG ROCK.
295.03	0.19	100		100% COAL, HEAVY DULL	CARBONACEOUS, SHALY.
296.53	1.50	100		100% TUFF	FINE GRAINED, GREY-BROWN, WITH FRAGMENTS OF BIOTITE, UNWEATHERED, VERY STRONG ROCK.
296.69	0.16	100		100% COAL, HEAVY DULL	
297.01	0.32	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, STRONG ROCK, VERY WIDELY SPACED JOINTS.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
297.25	0.24	100		80% CARBONACEOUS MUDSTONE 20% SANDSTONE, FINE GRAINED	BLACK. GREY. UNWEATHERED, STRONG ROCK.
297.37	0.12	100		80% TUFF 20% CARBONACEOUS MUDSTONE	GREY-BROWN. BLACK. UNWEATHERED, STRONG ROCK.
297.48	0.11	100		100% CARBONACEOUS SHALE	HEAVY DULL COAL.
297.87	0.39	100		50% CARBONACEOUS SHALE 50% TUFF	BLACK. GREY-BROWN. UNWEATHERED, STRONG ROCK.
298.19	0.32	100		100% TUFF	GREY-BROWN.
298.34	0.15	100		100% CARBONACEOUS SHALE	BLACK.
298.64	0.30	100		100% COAL, HEAVY DULL	DULL COAL.
298.68	0.04	100		100% MUDSTONE	GREY.
298.92	0.24	100		100% MUDSTONE	GREY, WITH PLANT REMAINS.
301.13	2.21	100		100% MUDSTONE	GREY.
304.71	3.58	100		60% SILTSTONE 40% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY.
305.85	1.14	100		80% MUDSTONE 20% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. WITH PLANT REMAINS.
305.90	0.05	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, VERY STRONG ROCK, WITH MUD PELLETS.
306.40	0.50	100		100% COAL, DULL	
308.64	2.24	100		100% MUDSTONE	GREY, STRONG ROCK, WITH PLANT REMAINS.
308.69	0.05	100		100% CARBONACEOUS MUDSTONE	BLACK.
308.79	0.10	100		100% MUDSTONE	GREY.
308.88	0.09	100		100% CARBONACEOUS MUDSTONE	BLACK.
309.13	0.25	100		100% MUDSTONE	GREY.
309.68	0.55	100		100% TUFF	GREY-BROWN.
309.74	0.06	100		100% TUFF	GREY-BROWN, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
309.99	0.25	100		100% COAL, HEAVY DULL	DULL COAL.
313.12	3.13	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. UNWEATHERED, MODERATELY STRONG ROCK.
313.40	0.28	100		50% MUDSTONE 50% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
315.16	1.76	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	MUDSTONE, BANDS, LIGHT GREY. GREY. UNWEATHERED, MODERATELY STRONG ROCK.
315.23	0.07	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, WITH CARBONACEOUS WISPS.
315.31	0.08	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
315.33	0.02	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
315.35	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK, WITH PLANT REMAINS.
315.43	0.08	100		100% MUDSTONE	CREAM, COMPLETELY WEATHERED, VERY WEAK ROCK.
315.44	0.01	100		100% CARBONACEOUS MUDSTONE	BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK, WITH PLANT REMAINS.
315.58	0.14	100		100% SANDSTONE, MEDIUM GRAINED	MUDSTONE, BANDS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
315.96	0.38	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
316.04	0.08	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
316.10	0.06	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
316.17	0.07	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
316.32	0.15	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
319.02	2.70	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS.
319.13	0.11	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, VERY WIDELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, ROUGH DISCONTINUITIES.
319.71	0.58	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
319.83	0.12	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, VERY WIDELY SPACED JOINTS.
322.17	2.34	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, JOINTS DIP 30 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
322.81	0.64	100		100% MUDSTONE	GREY, UNWEATHERED, MODERATELY STRONG ROCK.
322.91	0.10	100		100% CARBONACEOUS SHALE	BLACK, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
322.96	0.05	100		100% MUDSTONE	GREY, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
323.03	0.07	100		100% CARBONACEOUS SHALE	BLACK, MODERATELY WEATHERED, MODERATELY WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
327.73	4.70	100		100% MUDSTONE	FINE GRAINED SANDSTONE, BANDS, GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
329.08	1.35	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
329.14	0.06	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
329.32	0.18	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS.
329.62	0.30	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
329.91	0.29	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS.
330.48	0.57	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
330.94	0.46	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
332.12	1.18	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
332.26	0.14	100		100% COAL, DULL	
332.30	0.04	100		100% CARBONACEOUS SHALE	BROWN-BLACK, UNWEATHERED, VERY STRONG ROCK.
332.45	0.15	100		100% COAL, BRIGHT WITH FEW DULL BANDS	
332.50	0.05	100		100% MUDSTONE	BROWN, UNWEATHERED, STRONG ROCK.
332.51	0.01			100% CARBONACEOUS SHALE	
332.54	0.03			100% CARBONACEOUS SHALE	BROWN-BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
332.58	0.04			100% CARBONACEOUS SHALE	
332.84	0.28			100% COAL, HEAVY DULL	
332.87	0.03			100% CARBONACEOUS SHALE	COALY, TRACES, BROWN, UNWEATHERED, STRONG ROCK.
332.93	0.06			100% MUDSTONE	COALY, FRAGMENTS, GREY-BROWN, UNWEATHERED, MODERATELY STRONG ROCK.
332.96	0.03			100% COAL, HEAVY DULL	
333.01	0.05			100% COAL, BRIGHT	
333.16	0.15			100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, VERY STRONG ROCK.
333.22	0.06			100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
333.28	0.06			100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, VERY STRONG ROCK.
333.32	0.04			100% COAL, DULL	
333.38	0.06			100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, VERY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
333.42	0.04			100X MUDSTONE	LIGHT BROWN, UNWEATHERED, VERY STRONG ROCK.
333.54	0.12			100X COAL, DULL WITH NUMEROUS BRIGHT BANDS	
334.04	0.50			100X MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
336.06	2.02			60% MUDSTONE 40% SANDSTONE, FINE GRAINED	FINE GRAINED SANDSTONE, LAMINAE, GREY. MUDSTONE, LAMINAE, LIGHT GREY. UNWEATHERED, STRONG ROCK.
336.39	0.33			75% MUDSTONE 25% SANDSTONE, FINE GRAINED	GREY. LIGHT GREY. UNWEATHERED, STRONG ROCK.
337.69	1.30			100% CARBONACEOUS MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
338.78	1.09			100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
338.88	0.10			100% CARBONACEOUS MUDSTONE	BROWN-BLACK, UNWEATHERED, STRONG ROCK.
338.95	0.07			100% COAL, HEAVY DULL	
338.98	0.03			100% COAL, BRIGHT WITH NUMEROUS DULL BANDS	
339.01	0.03			100% COAL, DULL	
339.04	0.03			100% MUDSTONE	COALY, TRACES, BROWN, UNWEATHERED, MODERATELY STRONG ROCK.
339.09	0.05			100% COAL, BRIGHT WITH FEW DULL BANDS	
339.32	0.23			100% COAL, HEAVY DULL	
339.51	0.19			100% COAL, DULL	
339.54	0.03			100% MUDSTONE	BROWN, UNWEATHERED, VERY STRONG ROCK.
339.63	0.29			100% COAL, HEAVY DULL	
339.88	0.05			100% SANDSTONE, FINE GRAINED	BROWN, UNWEATHERED, VERY STRONG ROCK.
340.03	0.15			100% COAL, DULL	
340.11	0.08			100% SANDSTONE, MEDIUM GRAINED	DARK BROWN, UNWEATHERED, VERY STRONG ROCK.
340.16	0.05			100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, VERY STRONG ROCK.
340.21	0.05			100% COAL, DULL	
340.31	0.10	100		100% SANDSTONE, FINE GRAINED	GREY-BROWN, UNWEATHERED, VERY STRONG ROCK.
340.33	0.02	100		100% CARBONACEOUS MUDSTONE	BROWN, UNWEATHERED, STRONG ROCK.
340.43	0.10	100		100% CARBONACEOUS MUDSTONE	COALY, BLACK, UNWEATHERED, STRONG ROCK.
340.62	0.19	100		80% MUDSTONE 20% SANDSTONE, FINE GRAINED	BROWN. LIGHT GREY. MODERATELY WEATHERED, MODERATELY STRONG ROCK.
340.75	0.13	100		100% COAL, HEAVY DULL	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
340.87	0.12	100		100% MUDSTONE	GREEN-BROWN, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
340.94	0.07	100		100% COAL, HEAVY DULL	
341.00	0.06	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
341.04	0.04	100		100% COAL, INTERBANDED DULL AND BRIGHT	WITH CALCITE ON CLEAT.
341.12	0.08	100		100% COAL, BRIGHT WITH FEW DULL BANDS	
341.19	0.07	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, STRONG ROCK.
341.20	0.01	100		100% COAL, BRIGHT	
341.35	0.15	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
341.38	0.03	100		100% COAL, HEAVY DULL	
341.53	0.15	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, VERY STRONG ROCK, WITH PLANT REMAINS.
341.84	0.31	100		50% SANDSTONE, FINE GRAINED 50% MUDSTONE	GREY. GREY. UNWEATHERED, VERY STRONG ROCK.
343.10	1.26	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	MUDSTONE, BANDS, LIGHT GREY. FINE GRAINED SANDSTONE, BANDS, GREY. UNWEATHERED, VERY STRONG ROCK.
343.83	0.73	100		100% MUDSTONE	GREY, VERY STRONG ROCK.
344.47	0.64	100		100% MUDSTONE	GREY, VERY STRONG ROCK, WITH PLANT REMAINS.
344.56	0.09	100		100% CARBONACEOUS MUDSTONE	CREAM, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
344.58	0.02	100		100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
344.62	0.04	100		100% CARBONACEOUS MUDSTONE	CREAM, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
344.70	0.08	100		100% COAL, DULL	
344.72	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, STRONG ROCK.
344.82	0.10	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
344.88	0.06	100		100% MUDSTONE	CREAM, MODERATELY WEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
345.00	0.12	100		100% MUDSTONE	GREY-GREEN, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
345.03	0.03	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
345.05	0.02	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
345.07	0.02	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
345.09	0.02	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
345.15	0.06	100		100% COAL, DULL WITH FEW BRIGHT BANDS	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
345.17	0.02	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
345.22	0.05	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
345.24	0.02	100		100% COAL, BRIGHT	
345.33	0.09	100		100% COAL, HEAVY DULL	
345.35	0.02	100		100% COAL, BRIGHT	
345.53	0.18	100		100% CARBONACEOUS MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
346.33	0.80	100		80% MUDSTONE 20% SANDSTONE, FINE GRAINED	GREY. GREY. UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
346.36	0.03	100		100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
346.45	0.09	100		100% SHALE	BROWN, MODERATELY WEATHERED, WEAK ROCK.
346.48	0.03	100		100% CARBONACEOUS SHALE	BLACK, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
346.52	0.04	100		100% SANDSTONE	MED.-FINE GRAINED, GREY-BROWN, UNWEATHERED, STRONG ROCK.
346.59	0.07	100		100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
346.64	0.05	100		100% COAL, HEAVY DULL	
346.93	0.29	100		100% CARBONACEOUS SHALE	BROWN, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
346.96	0.03	100		100% SHALE	LIGHT BROWN, UNWEATHERED, MODERATELY STRONG ROCK.
347.01	0.05	100		100% CARBONACEOUS SHALE	COALY, BLACK, UNWEATHERED, VERY STRONG ROCK.
347.02	0.01	100		100% SHALE	LIGHT BROWN, UNWEATHERED, STRONG ROCK.
347.09	0.07	100		100% CARBONACEOUS SHALE	COALY, BLACK, UNWEATHERED, VERY STRONG ROCK.
347.27	0.18	100		100% SHALE	GREY-GREEN, HIGHLY WEATHERED, WEAK ROCK.
347.30	0.03	100		100% SHALE	BROWN-BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
347.39	0.09	100		100% SHALE	GREY-GREEN, HIGHLY WEATHERED, WEAK ROCK.
347.44	0.05	100		100% SHALE	BROWN-BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
347.59	0.15	100		100% SHALE	GREY-GREEN, HIGHLY WEATHERED, WEAK ROCK.
347.66	0.07	100		100% COAL, HEAVY DULL	
347.77	0.11	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, STRONG ROCK.
348.53	0.76	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	GREY. GREY. UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS, VERY WIDELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
348.56	0.03	100		100% MUDSTONE	CREAM, MODERATELY WEATHERED, WEAK ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
350.44	1.88	100		50% MUDSTONE 50% SANDSTONE, FINE GRAINED	GREY. GREY. UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
350.62	0.18	100		100% SANDSTONE, FINE GRAINED	GREY, UNWEATHERED, STRONG ROCK.
351.73	1.11	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	GREY. GREY. UNWEATHERED, STRONG ROCK.
352.39	0.66	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	CARBONACEOUS, LAMINAE, GREY. CARBONACEOUS, LAMINAE, GREY. UNWEATHERED, STRONG ROCK.
352.99	0.60	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
353.15	0.16	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	GREY. GREY. UNWEATHERED, STRONG ROCK.
354.51	1.36	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
TOP OF DALMAYNE B : 11.19 M S.L.					
354.52	0.01	100		100% COAL, BRIGHT	
354.58	0.06	100		100% COAL, HEAVY DULL	CARBONACEOUS.
354.64	0.06	100		100% COAL, DULL WITH FEW BRIGHT BANDS	WITH CALCITE ON CLEAT.
354.73	0.09	100		100% CARBONACEOUS MUDSTONE	BLACK, SLIGHTLY WEATHERED, STRONG ROCK.
354.76	0.03	100		100% CARBONACEOUS MUDSTONE	BROWN-BLACK, MODERATELY WEATHERED, MODERATELY STRONG ROCK.
354.94	0.18	100		100% CARBONACEOUS MUDSTONE	LIGHT GREEN, HIGHLY WEATHERED, WEAK ROCK.
355.09	0.15	100		100% CARBONACEOUS MUDSTONE	BROWN-BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
355.64	0.55	100		100% SHALE	LIGHT GREEN, COMPLETELY WEATHERED, WEAK ROCK.
355.74	0.10	100		100% CARBONACEOUS SHALE	BROWN-BLACK, UNWEATHERED, STRONG ROCK.
355.81	0.07	100		100% SHALE	CARBONACEOUS, FRAGMENTS, LIGHT GREY, SLIGHTLY WEATHERED, STRONG ROCK.
355.87	0.06	100		100% CARBONACEOUS SHALE	BROWN-BLACK, UNWEATHERED, STRONG ROCK.
356.05	0.18	100		100% CARBONACEOUS SHALE	COALY, BROWN-BLACK, UNWEATHERED, STRONG ROCK.
356.08	0.03	100		100% SHALE	LIGHT GREEN, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
356.37	0.29	100		100% CARBONACEOUS SHALE	BLACK, UNWEATHERED, STRONG ROCK.
356.47	0.10	100		100% COAL, HEAVY DULL	

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
356.52	0.05	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LENSES, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
356.58	0.06	100		100% CARBONACEOUS SHALE	BLACK, UNWEATHERED, STRONG ROCK.
356.68	0.10	100		85% SANDSTONE, FINE GRAINED 15% CARBONACEOUS SHALE	LIGHT GREY. BLACK. UNWEATHERED, VERY STRONG ROCK.
356.78	0.10	100		100% MUDSTONE	SANDSTONE, LAMINAE, LIGHT GREY, UNWEATHERED, STRONG ROCK, WIDELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 80 DEG., TIGHT, PLANAR, SMOOTH DISCONTINUITIES.
357.54	0.76	100		75% SANDSTONE, FINE GRAINED 25% MUDSTONE	GREY. GREY. UNWEATHERED, STRONG ROCK.
357.89	0.35	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
357.99	0.10	100		100% MUDSTONE	LIGHT GREEN, HIGHLY WEATHERED, MODERATELY WEAK ROCK.
358.15	0.16	100		100% CARBONACEOUS SHALE	BLACK, UNWEATHERED, STRONG ROCK.
358.47	0.32	100		50% SANDSTONE, FINE GRAINED 50% MUDSTONE	CARBONACEOUS, LIGHT GREY. CARBONACEOUS, GREY. UNWEATHERED, STRONG ROCK.
358.61	0.14	100		100% CARBONACEOUS SHALE	COALY, FRAGMENTS, BROWN-BLACK, UNWEATHERED, STRONG ROCK.
358.77	0.16	100		100% MUDSTONE	GREY, MODERATELY WEATHERED, MODERATELY STRONG ROCK.
359.54	0.77	100		100% CARBONACEOUS MUDSTONE	MUDSTONE, BANDS, BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
359.64	0.10	100		100% SHALE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
359.83	0.19	100		100% CARBONACEOUS MUDSTONE	HEAVY DULL COAL, BLACK, UNWEATHERED, STRONG ROCK.
359.98	0.15	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, VERY STRONG ROCK.
360.11	0.13	100		100% SHALE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
360.12	0.01	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, VERY STRONG ROCK.
360.18	0.06	100		100% SHALE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
360.53	0.35	100		90% CARBONACEOUS MUDSTONE 10% SHALE	COALY, TRACES, BLACK. CREAM. UNWEATHERED, STRONG ROCK.
360.56	0.03	100		100% SHALE	CREAM, MODERATELY WEATHERED, WEAK ROCK.
360.82	0.26	100		75% CARBONACEOUS MUDSTONE 25% SHALE	BLACK. CREAM. UNWEATHERED, STRONG ROCK.
360.97	0.15	100		100% CARBONACEOUS MUDSTONE	HEAVY DULL COAL, BLACK, UNWEATHERED, STRONG ROCK.
361.00	0.03	100		100% SANDSTONE, FINE GRAINED	DARK GREY, UNWEATHERED, VERY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
361.13	0.13	100		100% CARBONACEOUS MUDSTONE	HEAVY DULL COAL, BLACK, UNWEATHERED, VERY STRONG ROCK.
361.18	0.05	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, DARK GREY, UNWEATHERED, STRONG ROCK.
361.25	0.07	100		100% CARBONACEOUS MUDSTONE	HEAVY DULL COAL, BLACK, UNWEATHERED, STRONG ROCK.
361.30	0.05	100		100% SANDSTONE, FINE GRAINED	COALY, LAMINAE, LIGHT BROWN, SLIGHTLY WEATHERED, STRONG ROCK.
361.48	0.18	100		100% CARBONACEOUS MUDSTONE	COALY, TRACES, BLACK, UNWEATHERED, STRONG ROCK.
361.53	0.05	100		100% SHALE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
361.67	0.14	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEATHERED, STRONG ROCK.
361.68	0.01	100		100% SHALE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
361.70	0.02	100		100% CARBONACEOUS MUDSTONE	HEAVY DULL COAL, BLACK, UNWEATHERED, STRONG ROCK.
361.93	0.23	100		100% CARBONACEOUS MUDSTONE	HEAVY DULL COAL, BLACK, UNWEATHERED, STRONG ROCK.
362.24	0.31	100		100% CARBONACEOUS MUDSTONE	FINE GRAINED SANDSTONE, LENSES, BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
362.36	0.12	100		100% MUDSTONE	BROWN, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
362.73	0.37	100		100% CARBONACEOUS MUDSTONE	HEAVY DULL COAL, BLACK, HIGHLY WEATHERED, WEAK ROCK.
363.29	0.56	100		90% CARBONACEOUS MUDSTONE 10% SANDSTONE, MEDIUM GRAINED	BLACK. GREY. UNWEATHERED, STRONG ROCK.
363.82	0.53	100		100% CARBONACEOUS MUDSTONE	COALY, BLACK, UNWEATHERED, STRONG ROCK.
363.86	0.04	100		100% SHALE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
364.12	0.26	100		100% CARBONACEOUS MUDSTONE	COALY, BLACK, UNWEATHERED, STRONG ROCK.
364.17	0.05	100		100% SHALE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
364.37	0.20	100		100% CARBONACEOUS MUDSTONE	COALY, BLACK, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
364.97	0.60	100		100% MUDSTONE	FINE GRAINED SANDSTONE, BANDS, CREAM, HIGHLY WEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
365.20	0.23	100		100% CARBONACEOUS MUDSTONE	COALY, BLACK, UNWEATHERED, STRONG ROCK.
365.28	0.08	100		100% MUDSTONE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
365.55	0.27	100		100% CARBONACEOUS MUDSTONE	COALY, BLACK, UNWEATHERED, STRONG ROCK.
365.70	0.15	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
365.74	0.04	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
366.28	0.54	100		50% SANDSTONE, FINE GRAINED 50% MUDSTONE	GREY. GREY. UNWEATHERED, STRONG ROCK.
367.68	1.40	100		100% MUDSTONE	FINE GRAINED SANDSTONE, BANDS, GREY, UNWEATHERED, STRONG ROCK.
367.70	0.02	100		100% SANDSTONE, FINE GRAINED	DARK GREY, UNWEATHERED, STRONG ROCK.
369.48	1.78	100		100% MUDSTONE	COALY, TRACES, GREY, UNWEATHERED, STRONG ROCK, WIDELY SPACED JOINTS, WITH SLICKENSIDES, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
369.67	0.19	100		100% MUDSTONE	CREAM, WITH STREAKS OF CALCITE, HIGHLY WEATHERED, WEAK ROCK.
370.59	0.92	100		100% CARBONACEOUS MUDSTONE	BRIGHT COAL, BANDS, BLACK, UNWEATHERED, STRONG ROCK, CLOSELY SPACED JOINTS, WITH SLICKENSIDES, JOINTS DIP 45 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
370.80	0.21	100		100% COAL, DULL	
370.84	0.04	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BANDS, BROWN, UNWEATHERED, STRONG ROCK.
371.05	0.21	100		100% COAL, DULL	
371.07	0.02	100		100% SANDSTONE, FINE GRAINED	LIGHT BROWN, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
371.27	0.20	100		100% CARBONACEOUS MUDSTONE	COALY, BANDS, BLACK, UNWEATHERED, STRONG ROCK.
371.37	0.10	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
371.62	0.25	100		100% CARBONACEOUS MUDSTONE	COALY, BANDS, BLACK, UNWEATHERED, STRONG ROCK.
BASE OF DALMAYNE B : THICKNESS= 17.11 M; SAMPLED THICKNESS= 0.00 M					
371.72	0.10	100		100% MUDSTONE	COARSE GRAINED, FRAGMENTS, GREY, UNWEATHERED, STRONG ROCK.
371.86	0.14	100		100% SANDSTONE, MEDIUM GRAINED	COARSE GRAINED, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS.
371.96	0.10	100		75% SANDSTONE, MEDIUM GRAINED 25% MUDSTONE	LIGHT GREY. GREY. UNWEATHERED, VERY STRONG ROCK.
373.60	1.64	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
373.70	0.10	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, STRONG ROCK.
373.74	0.04	100		100% SANDSTONE, FINE GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
379.70	5.96	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
382.26	2.56	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES, INFILLED WITH QUARTZ.
382.36	0.10	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
383.49	1.13	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
383.58	0.09	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
383.81	0.23	100		100% SANDSTONE, FINE GRAINED	COALY, TRACES, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
384.40	0.59	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
385.06	0.66	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
385.66	0.60	100		50% SANDSTONE, MEDIUM GRAINED 50% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, LIGHT GREY. COALY, STREAKS, LIGHT GREY. UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
385.86	0.20	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
386.14	0.28	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
386.56	0.42	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
387.68	1.12	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
387.88	0.20	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
388.07	0.19	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
388.40	0.33	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
388.59	0.19	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
389.50	0.91	100		100% MUDSTONE	SILTSTONE, LENSES, GREY, UNWEATHERED, STRONG ROCK.
389.52	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, STRONG ROCK.
389.60	0.08	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
389.70	0.10	100		100% MUDSTONE	CARBONACEOUS, FRAGMENTS, GREY, UNWEATHERED, STRONG ROCK.
389.81	0.11	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
389.90	0.09	100		100% SANDSTONE, MEDIUM GRAINED	MUDSTONE, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	SEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
391.13	1.23	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, WIDELY SPACED JOINTS, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
391.73	0.60	100		100% CARBONACEOUS MUDSTONE	DARK GREY, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
392.23	0.50	100		50% SANDSTONE, FINE GRAINED 50% CARBONACEOUS MUDSTONE	LIGHT GREY. BLACK. UNWEATHERED, STRONG ROCK.
392.38	0.15	100		75% CARBONACEOUS MUDSTONE 25% SANDSTONE, FINE GRAINED	BLACK. LIGHT GREY.
392.45	0.07	100		100% SANDSTONE, MEDIUM GRAINED	COALY, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
393.05	0.60	100		100% MUDSTONE	COALY, LAMINAE, GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
393.60	0.55	100		100% MUDSTONE	GYPSEIFEROUS, HIGHLY WEATHERED, WEAK ROCK.
393.97	0.37	100		50% SANDSTONE, MEDIUM GRAINED 50% CARBONACEOUS MUDSTONE	LIGHT GREY. BLACK. UNWEATHERED, VERY STRONG ROCK.
394.10	0.13	100		75% SANDSTONE, MEDIUM GRAINED 25% CARBONACEOUS MUDSTONE	LIGHT GREY. BLACK. UNWEATHERED, STRONG ROCK.
TOP OF DALMAYNE C : -28.40 M R.L.					
394.30	0.20	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
394.93	0.63	100		100% CARBONACEOUS MUDSTONE	SANDSTONE, LENSES, BLACK, UNWEATHERED, STRONG ROCK.
395.57	0.64	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY WEATHERED, MODERATELY STRONG ROCK.
395.79	0.22	100		100% MUDSTONE	CREAM, HIGHLY WEATHERED, WEAK ROCK.
395.83	0.04	100		100% CARBONACEOUS SHALE	BLACK, MODERATELY WEATHERED, MODERATELY WEAK ROCK.
BASE OF DALMAYNE C : THICKNESS= 1.73 M; SAMPLED THICKNESS= 0.00 M					
395.89	0.06	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
397.42	1.53	100		100% MUDSTONE	SANDSTONE, BANDS, GREY, UNWEATHERED, STRONG ROCK, CLOSELY SPACED JOINTS, WITH SLICKENSIDES, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
397.46	0.04	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
397.60	0.14	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, VERY WIDELY SPACED JOINTS.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
					*** CORE DESCRIPTION ***
399.00	1.40	100		90% SANDSTONE, FINE GRAINED 10% MUDSTONE	LIGHT GREY. GREY. UNWEATHERED, VERY STRONG ROCK.
401.35	2.35	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WISPS.
404.68	3.33	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
404.89	0.21	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
405.48	0.59	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
405.71	0.23	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
405.76	0.05	100		100% COAL, BRIGHT	
405.80	0.04	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
406.03	0.23	100		100% SANDSTONE	MED.-FINE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
406.62	0.59	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
406.70	0.03	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
407.43	0.73	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
407.54	0.11	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
407.77	0.23	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
407.91	0.14	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
408.64	0.73	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
410.18	1.54	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
411.36	1.18	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
411.80	0.44	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
413.32	1.52	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
413.60	0.28	100		100% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, WITH CARBONACEOUS WISPS.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
					*** CORE DESCRIPTION ***
415.12	1.52	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
415.20	0.08	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
415.50	0.30	100		100% SANDSTONE, COARSE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
417.35	1.85	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
417.49	0.14	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
418.67	1.18	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
421.62	2.95	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
421.71	0.09	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
422.06	0.35	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
422.77	0.71	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
423.84	1.07	100		100% SANDSTONE, COARSE GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
427.70	3.86	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
428.09	0.39	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, VERY WIDELY SPACED JOINTS, JOINTS DIP 30 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
428.48	0.39	100		100% TUFF	WHITE, UNWEATHERED, EXTREMELY STRONG ROCK.
430.38	1.90	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS, MODERATELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
430.56	0.18	100		100% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
430.63	0.07	100		100% COAL, DULL	
430.77	0.14	100		100% MUDSTONE	SANDSTONE, BANDS, GREY, UNWEATHERED, STRONG ROCK.
431.42	0.70	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
431.52	0.05	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
432.09	0.57	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.

DEPTH TO BASE H	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
432.55	0.46	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, WIDELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
433.01	0.46	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
433.54	0.53	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, CLOSELY SPACED JOINTS, JOINTS DIP 30 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
433.75	0.21	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, CLOSELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 30 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
435.31	1.56	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
435.58	0.27	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
437.83	2.25	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
437.98	0.15	100		100% SANDSTONE, MEDIUM GRAINED	COALY, LENSES, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
438.58	0.60	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
438.73	0.15	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, VERY STRONG ROCK.
439.31	0.58	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
439.34	0.03	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
439.70	0.36	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
440.18	0.48	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
442.13	1.95	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
442.31	0.18	100		100% SANDSTONE, COARSE GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
442.76	0.45	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
443.36	0.60	100		100% SANDSTONE	MED.-FINE GRAINED, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
445.29	1.93	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, SLIGHTLY WEATHERED, STRONG ROCK, CLOSELY SPACED JOINTS, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
446.40	1.11	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
446.58	0.18	100		100% SANDSTONE	MED.-FINE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
448.63	2.05	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
448.68	0.05	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
448.70	0.02	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
448.83	0.13	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
448.90	0.07	100		100% CARBONACEOUS MUDSTONE	GREY, UNWEATHERED, STRONG ROCK.
449.70	0.80	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRAGMENTS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS, WITH MUD PELLETS, WIDELY SPACED JOINTS, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
450.20	0.50	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
451.95	1.75	100		75% MUDSTONE 25% CARBONACEOUS MUDSTONE	GREY. BLACK. UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS, CLOSELY SPACED JOINTS, WITH SLICKENSIDES, JOINTS DIP 30 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
TOP OF DALMAYNE D UPPER : -86.25 M R.L.					
452.09	0.14	100		100% COAL, DULL	
452.37	0.28	100		100% CARBONACEOUS MUDSTONE	COALY, BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
BASE OF DALMAYNE D UPPER : THICKNESS= 0.42 M; SAMPLED THICKNESS= 0.00 M					
453.15	0.78	100		100% MUDSTONE	CARBONACEOUS, BANDS, GREY, SLIGHTLY WEATHERED, MODERATELY STRONG ROCK.
454.39	1.24	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	GREY. GREY. UNWEATHERED, STRONG ROCK.
454.46	0.07	100		100% CARBONACEOUS MUDSTONE	GREY-BROWN, UNWEATHERED, STRONG ROCK.
455.88	1.42	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	GREY. GREY. UNWEATHERED, STRONG ROCK, MODERATELY SPACED JOINTS, WITH SLICKENSIDES, JOINTS DIP 30 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
456.64	0.76	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, MODERATELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
456.70	0.06	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	GREY. GREY. UNWEATHERED, VERY STRONG ROCK.
456.97	0.27	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
457.14	0.17	100		100% SANDSTONE, FINE GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
457.25	0.11	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
457.45	0.20	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	COARSE GRAINED, BANDS, GREY. GREY. UNWEATHERED, STRONG ROCK.
457.77	0.32	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
457.84	0.07	100		100% SANDSTONE, FINE GRAINED	COALY, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
458.10	0.26	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
458.30	0.20	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
458.76	0.46	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	CARBONACEOUS, BANDS, GREY. GREY. UNWEATHERED, VERY STRONG ROCK, MODERATELY SPACED JOINTS, WITH SLICKENSIDES, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
460.43	1.67	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
460.73	0.30	100		100% SANDSTONE, COARSE GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, WIDELY SPACED JOINTS, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
461.16	0.43	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
461.20	0.04	100		100% SANDSTONE, MEDIUM GRAINED	COALY, LENSES, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS.
462.85	1.65	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, VERY WIDELY SPACED JOINTS, INFILLED WITH CALCITE, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
463.46	0.61	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
463.77	0.31	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
464.27	0.50	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
464.65	0.38	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, JOINTS DIP 30 DEG., OPEN, PLANAR, ROUGH DISCONTINUITIES.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
465.59	0.94	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, MODERATELY SPACED JOINTS, JOINTS DIP 20 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
466.04	0.45	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, CLOSELY SPACED JOINTS, JOINTS DIP 35 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
466.57	0.53	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
466.81	0.24	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
467.19	0.38	100		100% SANDSTONE, MEDIUM GRAINED	COALY, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
467.59	0.40	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
469.30	1.71	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH MUD PELLETS, WITH CARBONACEOUS WISPS.
469.70	0.40	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, CLOSELY SPACED JOINTS, JOINTS DIP 35 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
470.20	0.50	100		100% SANDSTONE	MED.-COARSE GRAINED, COALY, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
470.95	0.75	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	GREY. GREY. UNWEATHERED, STRONG ROCK, CLOSELY SPACED JOINTS, WITH SLICKENSIDES, JOINTS DIP 35 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
470.99	0.04	100		100% COAL	BROWN.
472.70	1.71	60		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, VERY CLOSELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
473.43	0.73	100		100% SANDSTONE, MEDIUM GRAINED	COALY, STREAKS, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WIDELY SPACED JOINTS, JOINTS DIP 25 DEG., OPEN, PLANAR, ROUGH DISCONTINUITIES.
473.53	0.10			75% SANDSTONE, FINE GRAINED 25% MUDSTONE	GREY. GREY. UNWEATHERED, VERY STRONG ROCK, CLOSELY SPACED JOINTS, JOINTS DIP 20 DEG., OPEN, PLANAR, ROUGH DISCONTINUITIES.
473.84	0.31			100% MUDSTONE	CARBONACEOUS, LAMINAE, GREY, UNWEATHERED, STRONG ROCK.
TOP OF DALMAYNE D LOWER :-108.14 M R.L.					
473.93	0.09	1		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, STRONG ROCK.
474.18	0.25	1		100% COAL, DULL	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
474.31	0.13		1	100% COAL, DULL WITH FEW BRIGHT BANDS	
474.49	0.18		1	100% COAL, DULL	
474.53	0.04		1	100% COAL, DULL WITH FEW BRIGHT BANDS	
474.55	0.02		1	100% COAL, BRIGHT	
474.64	0.09		1	100% CARBONACEOUS MUDSTONE	BRIGHT COAL, BANDS.
475.07	0.43		1	100% MUDSTONE	FINE GRAINED SANDSTONE, BANDS, GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH PLANT REMAINS, VERY WIDELY SPACED JOINTS, JOINTS DIP 40 DEG., OPEN, PLANAR, SMOOTH DISCONTINUITIES.
475.17	0.10		1	100% MUDSTONE	GREY-BROWN, HIGHLY WEATHERED, MODERATELY WEAK ROCK.
475.33	0.16		2	100% CARBONACEOUS MUDSTONE	BRIGHT COAL, BANDS, DARK GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
475.47	0.14		3	100% COAL, DULL WITH FEW BRIGHT BANDS	
475.52	0.05		3	100% CARBONACEOUS MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
475.70	0.18	100	3	100% COAL, DULL WITH FEW BRIGHT BANDS	
475.76	0.06	100	3	100% COAL, DULL	
475.78	0.02	100	3	100% TONSTEIN	
475.84	0.06	100	3	100% COAL, DULL	
475.85	0.01	100	3	100% CLAY	
475.98	0.13	100	3	100% COAL, DULL	
476.17	0.19	100	3	100% COAL, HEAVY DULL	
476.38	0.21	100	3	100% COAL, DULL	
476.52	0.14	100	3	100% COAL, HEAVY DULL	
476.61	0.09	100	3	100% COAL, DULL WITH FEW BRIGHT BANDS	
476.69	0.08	100	3	100% COAL, DULL	
477.01	0.32	100	3	100% COAL, DULL WITH FEW BRIGHT BANDS	
477.03	0.02	100	3	100% COAL, BRIGHT	
477.08	0.05	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
477.09	0.01	100		100% COAL, BRIGHT	
477.43	0.34	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
477.66	0.23	100		100% CARBONACEOUS MUDSTONE	BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
477.76	0.10	100	4	100% CARBONACEOUS MUDSTONE	COALY.
477.94	0.18	100	4	100% COAL, DULL WITH FEW BRIGHT BANDS	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
477.96	0.02	100	4	100% TONSTEIN	
478.03	0.07	100	4	100% COAL, DULL WITH FEW BRIGHT BANDS	
478.12	0.09	100	4	100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
478.52	0.40	100	5	100% COAL, DULL	WITH CALCITE ON CLEAT.
478.53	0.01	100	5	100% CLAY	
478.70	0.17	100	5	100% COAL, DULL WITH FEW BRIGHT BANDS	
478.71	0.01	100	5	100% COAL, DULL	
478.73	0.02	100	5	100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
478.87	0.14	100	5	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
479.15	0.28	100	5	100% COAL, DULL	
479.16	0.01	100	5	100% CLAY	
479.21	0.05	100	5	100% COAL, HEAVY DULL	
479.34	0.13	100	5	100% COAL, DULL WITH NUMEROUS BRIGHT BANDS	
BASE OF DALMAYNE D LOWER : THICKNESS= 5.50 M; SAMPLED THICKNESS= 4.87 M					
479.49	0.15	100	6	100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS.
479.52	0.03	100	6	100% CARBONACEOUS MUDSTONE	COALY.
479.59	0.07	100	6	100% COAL, DULL	WITH CALCITE ON CLEAT.
480.05	0.46	100		100% MUDSTONE	GREY, UNWEATHERED, STRONG ROCK, WITH PLANT REMAINS, VERY WIDELY SPACED JOINTS.
480.11	0.06	100		100% CARBONACEOUS MUDSTONE	
480.20	0.09	100		100% COAL, HEAVY DULL	
480.24	0.04	100		100% COAL, BRIGHT WITH FEW DULL BANDS	
480.27	0.03	100		100% CARBONACEOUS MUDSTONE	GREY-BROWN, UNWEATHERED, MODERATELY STRONG ROCK.
483.10	2.83	100		75% MUDSTONE 25% SANDSTONE, FINE GRAINED	CARBONACEOUS, BANDS, GREY. GREY. UNWEATHERED, STRONG ROCK.
485.03	1.93	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
486.45	1.42	100		100% SANDSTONE, FINE GRAINED	COALY, LAMINAE, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK, WITH CARBONACEOUS WISPS.
486.60	0.15	100		100% SANDSTONE	MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, VERY STRONG ROCK.
497.24	10.64	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY, STRONG ROCK.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
497.31	0.07	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRIABLE, LIGHT GREY, STRONG ROCK.
497.37	0.06	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY.
497.42	0.05	100		100% SANDSTONE, MEDIUM GRAINED	COALY, FRIABLE, LIGHT GREY.
498.60	1.18	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY.
498.78	0.18	100		100% SANDSTONE, MEDIUM GRAINED	COALY, LENSES, LIGHT GREY.
504.00	5.22	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY.
504.08	0.08	100		100% SANDSTONE, MEDIUM GRAINED	PEBBLY, LIGHT GREY.
508.31	4.23	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY.
508.39	0.08	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
509.35	0.96	100		100% MUDSTONE	GREY.
509.37	0.02	100		100% COAL, DULL	
509.38	0.01	100		100% MUDSTONE	BROWN.
509.39	0.01	100		100% COAL, BRIGHT	BADLY BROKEN.
510.57	1.18	100		100% MUDSTONE	GREY.
512.23	1.66	100		50% SANDSTONE, FINE GRAINED 50% MUDSTONE	COALY, TRACES, LIGHT GREY. GREY. MODERATELY WEAK ROCK.
513.44	1.21	100		100% MUDSTONE	GREY.
513.98	0.54	100		100% CARBONACEOUS MUDSTONE	BLACK.
514.33	0.35	100		100% CARBONACEOUS MUDSTONE	ARENACEOUS, LENSES, BLACK.
514.49	0.16	100		70% CARBONACEOUS MUDSTONE 30% SANDSTONE, COARSE GRAINED	BLACK. BANDS, LIGHT GREY.
514.95	0.46	100		100% CARBONACEOUS MUDSTONE	BLACK.
516.37	1.42	100		100% MUDSTONE	GREY.
516.97	0.60	100		85% CARBONACEOUS MUDSTONE 15% SANDSTONE, FINE GRAINED	BLACK. BANDS, LIGHT GREY.
517.69	0.72	100		100% MUDSTONE	GREY, WITH TROUGH CROSS BEDDING.
517.83	0.14	100		100% MUDSTONE	GREY.
517.94	0.11	100		100% COAL, DULL	BRIGHT COAL, BANDS, WITH CALCITE ON CLEAT, UNWEATHERED, WITH PLANT REMAINS.
518.05	0.11	100		100% CARBONACEOUS SHALE	HIGHLY WEATHERED.
518.21	0.16	100		100% CARBONACEOUS SHALE	ARENACEOUS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
518.32	0.11	100		100% MUDSTONE	GREY.

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
518.34	0.02	100		100% CARBONACEOUS MUDSTONE	
518.38	0.04	100		100% MUDSTONE	LIGHT BROWN, VERY WEAK ROCK.
518.75	0.37	100		100% COAL, DULL	WITH CALCITE ON CLEAT.
518.86	0.11	100		100% COAL, BRIGHT WITH FEW DULL BANDS	
520.94	2.08	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, MODERATELY WEAK ROCK.
521.13	0.19	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
521.17	0.04	100		100% MUDSTONE	LIGHT BROWN, WEAK ROCK.
521.56	0.39	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK, VERY THINLY BEDDED, MODERATELY SPACED JOINTS, JOINTS DIP 50 DEG., TIGHT NON PLANAR, WITH SLICKENSIDES.
522.71	1.15	100		70% SANDSTONE, FINE GRAINED 30% MUDSTONE	LIGHT GREY. CARBONACEOUS, STREAKS, GREY. MODERATELY STRONG ROCK, VERY THINLY BEDDED, LAMINATED.
525.56	2.85	100		50% SANDSTONE 50% SANDSTONE, FINE GRAINED	VERY FINE GRAINED, LIGHT GREY. LIGHT GREY. MODERATELY STRONG ROCK.
525.78	0.22	100		100% CARBONACEOUS MUDSTONE	BLACK, MODERATELY STRONG ROCK.
525.84	0.06	100		100% MUDSTONE	DARK BROWN, WEAK ROCK.
525.87	0.03	100		100% MUDSTONE	BROWN, FIRM.
526.23	0.36	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, STRONG ROCK.
526.29	0.06	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
526.35	0.06	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT BROWN.
526.37	0.02	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
526.44	0.07	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT BROWN.
527.49	1.05	100		100% MUDSTONE	DARK GREY.
527.52	0.03	100		100% SANDSTONE, FINE GRAINED	GREY-BROWN.
528.09	0.57	100		100% MUDSTONE	ARENACEOUS, BANDS, DARK GREY.
528.23	0.14	100		100% MUDSTONE	GREY.
528.25	0.02	100		100% COAL, DULL	
528.50	0.25	100		100% MUDSTONE	LIGHT GREY, MODERATELY WEAK ROCK.
528.56	0.06	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY.
528.76	0.20	100		100% MUDSTONE	GREY.
531.93	3.17	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY.
532.03	0.10	100		100% COAL, DULL WITH FEW BRIGHT BANDS	

DEPTH TO BASE M	THICKNESS M	REC %	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
532.07	0.04	100		100% CLAY	BROWN, SOFT.
532.11	0.04	100		100% COAL, BRIGHT	
532.13	0.02	100		100% CARBONACEOUS MUDSTONE	BLACK.
532.33	0.20	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, GREY.
533.16	0.83	100		50% SANDSTONE, MEDIUM GRAINED 50% CARBONACEOUS MUDSTONE	LAMINATED.
533.27	0.11	100		100% CARBONACEOUS MUDSTONE	ARENACEOUS, BLACK.
533.68	0.41	100		70% SANDSTONE 30% SANDSTONE, FINE GRAINED	VERY FINE GRAINED, CARBONACEOUS, BLACK. GREY. THICKLY LAMINATED.
533.72	0.04	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, STREAKS, CREAM.
534.18	0.46	100		70% SANDSTONE 30% SANDSTONE, FINE GRAINED	VERY FINE GRAINED, CARBONACEOUS, BLACK. GREY.
TOP OF DALMAYNE E2 :-168.48 M R.L.					
534.79	0.61	100		100% COAL, HEAVY DULL	
BASE OF DALMAYNE E2 : THICKNESS= 0.61 M; SAMPLED THICKNESS= 0.00 M					
534.91	0.12	100		100% CARBONACEOUS MUDSTONE	BLACK, WITH CALCITE ON CLEAT.
535.47	0.56	100		100% MUDSTONE	GREY, MODERATELY WEAK ROCK.
536.39	0.92	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
536.48	0.09	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY.
537.25	0.77	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
538.70	1.45	100		100% SANDSTONE	VERY FINE GRAINED, BADLY BROKEN, GREY.
541.03	2.33	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
541.11	0.06	100		100% MUDSTONE	BROWN, FIRM.
542.59	1.48	100		100% MUDSTONE	ARENACEOUS, DARK BROWN, MODERATELY WEAK ROCK.
542.94	0.35	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BLACK.
543.19	0.25	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, BANDS, LIGHT GREY.
543.63	0.44	100		65% SANDSTONE, FINE GRAINED 35% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, BLACK. LIGHT GREY. LAMINATED.
543.86	0.23	100		100% SANDSTONE, FINE GRAINED	GREY.
546.28	2.42	100		100% SANDSTONE	VERY FINE GRAINED, GREY, LAMINATED.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE *** CORE DESCRIPTION ***	GEOLOGICAL DESCRIPTION
546.80	0.52	100		100% SANDSTONE, MEDIUM GRAINED	FINE GRAINED SANDSTONE, BANDS, LIGHT GREY.
547.03	0.23	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
547.11	0.08	100		100% SANDSTONE	VERY FINE GRAINED, GREY, LAMINATED.
547.97	0.86	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY.
548.07	0.10	100		100% SANDSTONE	VERY FINE GRAINED, PEBBLY, GREY.
548.54	0.47	100		100% SANDSTONE, MEDIUM GRAINED	LIGHT GREY.
548.89	0.35	100		100% CARBONACEOUS SHALE	ARENACEOUS, BLACK.
549.05	0.16	100		100% CARBONACEOUS SHALE	BLACK.
549.33	0.28	100		100% CARBONACEOUS MUDSTONE	ARENACEOUS, BANDS, BLACK.
549.39	0.06	100		100% COAL, DULL	
549.42	0.03	100		100% SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, BLACK.
549.44	0.02	100		100% MUDSTONE	BROWN.
549.60	0.16	100		100% COAL, HEAVY DULL	
549.65	0.05	100		100% MUDSTONE	BROWN, WITH DISTURBED BEDDING.
549.72	0.07	100		100% COAL, DULL WITH FEW BRIGHT BANDS	
549.75	0.03	100		100% COAL, DULL WITH HUMEROUS BRIGHT BANDS	
550.23	0.48	100		100% CARBONACEOUS MUDSTONE	BLACK.
550.60	0.37	100		60% SANDSTONE, MEDIUM GRAINED 40% SANDSTONE, FINE GRAINED	LIGHT GREY. CARBONACEOUS, BLACK. LAMINATED.
550.72	0.12	100		100% SANDSTONE	VERY FINE GRAINED, CARBONACEOUS, BLACK.
551.07	0.35	100		100% SANDSTONE, FINE GRAINED	GREY-BROWN.
551.23	0.16	100		100% SANDSTONE, MEDIUM GRAINED	GREY.
551.33	0.10	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, BANDS, GREY.
551.42	0.09	100		100% SANDSTONE, FINE GRAINED	GREY, WITH PEBBLY QUARTZ.
552.05	0.63	100		100% MUDSTONE	GREY.
552.17	0.12	100		100% SANDSTONE	VERY FINE GRAINED, LIGHT GREY.
552.37	0.20	100		100% MUDSTONE	GREY.
552.48	0.11	100		100% SANDSTONE	VERY FINE GRAINED, GREY, WITH TROUGH CROSS BEDDING.
552.97	0.49	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY.
553.54	0.57	100		100% MUDSTONE	GREY.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION
*** CORE DESCRIPTION ***					
553.72	0.18	100		50% SANDSTONE, MEDIUM GRAINED 40% SANDSTONE, FINE GRAINED 10% MUDSTONE	LIGHT GREY. GREY. DETITAL. THICKLY LAMINATED, LAMINATED.
554.40	0.68	100		100% SANDSTONE	VERY FINE GRAINED, GREY.
554.89	0.49	100		100% MUDSTONE	GREY, LAMINATED.
555.11	0.22	100		100% SANDSTONE, MEDIUM GRAINED	GRADING TO, FINE GRAINED SANDSTONE, LIGHT GREY.
558.44	3.33	100		60% SANDSTONE, MEDIUM GRAINED 40% SANDSTONE	BADLY BROKEN, LIGHT GREY. VERY FINE GRAINED, CARBONACEOUS, BLACK. VERY THINLY BEDDED, LAMINATED.
558.51	0.07	100		100% SANDSTONE, MEDIUM GRAINED	CONGLOMERATIC, LIGHT GREY.
559.08	0.57	100		100% MUDSTONE	GREY.
559.22	0.14	100		100% CARBONACEOUS MUDSTONE	BLACK.
559.23	0.01	100		100% SANDSTONE, FINE GRAINED	GREY.
559.63	0.40	100		100% MUDSTONE	GREY.
559.70	0.07	100		100% CARBONACEOUS MUDSTONE	BLACK.
560.40	0.70	100		100% MUDSTONE	GREY.
560.53	0.13	100		100% CARBONACEOUS MUDSTONE	COALY, BANDS, BROWN.
560.89	0.36	100		100% SANDSTONE	MED.-FINE GRAINED, DARK BROWN, VERY THINLY BEDDED.
561.06	0.17	100		100% CARBONACEOUS MUDSTONE	BLACK.
561.20	0.14	100		100% MUDSTONE	LIGHT GREY, VERY WEAK ROCK.
561.39	0.19	100		100% CARBONACEOUS MUDSTONE	BADLY BROKEN, BLACK.
561.42	0.03	100		100% COAL, BRIGHT	BADLY BROKEN.
563.68	2.26	100		100% SANDSTONE, FINE GRAINED	LIGHT GREY, VERY THINLY BEDDED, WITH BURROWING.
564.50	0.82	100		100% MUDSTONE	GREY.
565.45	0.95	100		100% SANDSTONE, FINE GRAINED	GREY.
566.80	1.35	100		100% SANDSTONE, COARSE GRAINED	LIGHT GREY.
567.43	0.63	100		100% SANDSTONE, COARSE GRAINED	LIGHT GREY, VERY THINLY BEDDED, WITH BURROWING.
568.26	0.83	100		100% MUDSTONE	GREY.
568.31	0.05	100		100% COAL, BRIGHT	
568.42	0.11	100		100% MUDSTONE	GREY.
569.40	0.98	100		100% SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, WITH BURROWING.
569.50	0.10	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, DARK GREY.
569.68	0.18	100		100% SANDSTONE, FINE GRAINED	CARBONACEOUS, LENSES, LIGHT GREY.

DEPTH TO BASE M	THICKNESS M	REC X	SAMPLE NUMBER	ROCK TYPE	GEOLOGICAL DESCRIPTION *** CORE DESCRIPTION ***
570.61	0.93	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY, WITH CARBONACEOUS WISPS.
570.93	0.32	100		100X MUDSTONE	DARK GREY.
571.04	0.11	100		100X SANDSTONE, COARSE GRAINED	LIGHT GREY.
571.98	0.94	100		100X MUDSTONE	GREY.
572.46	0.48	100		100X SANDSTONE, MEDIUM GRAINED	GRADING TO, COARSE GRAINED, LIGHT GREY.
572.52	0.06	100		100X CARBONACEOUS MUDSTONE	COALY, BANDS, DARK BROWN.
572.63	0.11	100		100X SANDSTONE	VERY COARSE GRAINED, LIGHT GREY, WITH POOR SORTING.
572.69	0.06	100		100X SANDSTONE, MEDIUM GRAINED	CARBONACEOUS, BLACK.
573.09	0.40	100		100X SANDSTONE	MED.-COARSE GRAINED, LIGHT BROWN, WITH POOR SORTING.
573.31	0.22	100		100X SANDSTONE, FINE GRAINED	DARK GREY.
581.38	8.07	100		100X SANDSTONE	MED.-COARSE GRAINED, CREAM, WITH CARBONACEOUS WISPS.
581.98	0.60	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY.
582.39	0.41	100		100X SANDSTONE, FINE GRAINED	GREY, LAMINATED.
586.58	4.19	100		100X SANDSTONE	MED.-COARSE GRAINED, CREAM.
589.02	2.44	100		100X SANDSTONE	MED.-FINE GRAINED, LIGHT GREY.
594.50	5.48	100		100X MUDSTONE	DARK GREY, WITH PEBBLY QUARTZ.