Essential Petroleum Resources Limited

Pritchard 1
Cuttings Descriptions

Depth		Pritchard 1							Sample Descriptions
From	To	Sst	Slt	Clyst	Lst	Marl	Co	Vis Por	Description and shows:
4	4								Fill.
4	6.5								Sand, unconsolidated, clear to light grey, fine grained, quartzose.
6.5	10.5								Clay, soft, grey.
10.5	11.3								Limestone, sandy fossil fragments in grey clay.
11.3	13.4								Sand, unconsolidated, light grey to yellowish grey.
13.4	17.7								Clay, soft, grey.
17.7	43								Grey limestone with clay layers and hard bands.
43	50				100			E	LIMESTONE: white, pale yellow, light grey, fossiliferous calcarenite, clean, friable to predominantly loose coarse fragments of bryozoans.
50	60				100			E	LIMESTONE: as above.
60	70	10			90			E	LIMESTONE: as above.
70	80	30			70				LIMESTONE: as above. SANDSTONE: as loose grains, clear, medium to coarse, subrounded, quartzose ?plutonic.
80	90	50			50				SANDSTONE: mottled reddish brown, orange, pink, fine to coarse grained, poorly sorted, dense argillaceous matrix and ferruginised calcareous cement, firm, quartz and lithic grains dissagregated from matrix. LIMESTONE: as above.
90	100	60		20	20				PYRITIC CLAYSTONE: dark grey, soft to very hard, trace to superabundant fine pyrite dispersed and as nodules. SANDSTONE: light brown to mottled red, brown, orange, pink, very fine to very coarse grained, very poorly sorted, predominantly quartzose but with common lithic grains, glauconitic laminae, loose grains washing out of and 10% aggregated in dense argillaceous ferruginous calcareous matrix, trace lignite.
100	110	10		90					CLAYSTONE: dark brownish grey, soft, sticky, coarse quartz grains and fossil brachiopod fragments washing out. SANDSTONE: as above.
110	120	70		30					PYRITIC CLAYSTONE: dark grey, soft to very hard, fine pyrite dispersed and as nodules. SANDSTONE: clear to light grey, very fine to very coarse, very poorly sorted, angular to subrounded, pred loose with calcareous cement adhering.
120	130			100					SILTY CLAYSTONE: very dark brown, soft to hard/calcareous, blocky, trace large pyritised fossil fragments, trace glauconite and ?chamosite pellets.
130	140		20	80					SILTY CLAYSTONE: as above, with loose quartz grains washing out, fine to very coarse, ang to subrounded.
140	150	100						F	Clear to white, light brown, yellowish brown, fine to medium grained, angular to subrounded, well sorted, common large muscovite flakes.

150	160	90		10				F	SANDSTONE: clear to milky, light brown, medium to very coarse, angular, common composite quartz grains. CARBONACEOUS CLAYSTONE: very dark brown, lignitic, common mica.
160	170	80		20				F	SANDSTONE: as above predominantly fine grained, up to 10% mica. Lignitic CLAYSTONE as above.
170	180	80		20				P	SANDSTONE: as above occasionally with reddish brown clay matrix. Lignitic CLAYSTONE: as above
180	190	90			10			P	SANDSTONE: as above ?caved LIMESTONE: fossil fragments.
190	200	100						E	SANDSTONE: clear to white to light brown, coarse to granular, loose, occasional composite quartz grains, angular to subrounded. Quartzose, clean.
200	210	100						E	SANDSTONE: as above
210	220	100						E	SANDSTONE: as above, poorly sorted or bimodal, quartzose, trace hard polished grey and brown lithic grains.
220	230	100						E	SANDSTONE: as above.
230	240	100						E	SANDSTONE: as above.
240	250	100						G	SANDSTONE: clear to light brown, fine grained, well sorted, dispersive clay washing out.
250	260	100						G	SANDSTONE: as above, fine to medium grained.
260	270	100						F	SANDSTONE: light brown, fine to medium grained, minor carbonaceous laminae.
270	280	100						F	SANDSTONE: as above, trace lithic grains.
280	290	100		trace				P	SANDSTONE: as loose grains, clear to light brown, predominantly fine grained, brown clay matrix washing out. Trace pyritic CLAYSTONE: medium grey to very dark brown.
290	300	100		trace				P	SANDSTONE: as above.
300	310	100						P	SANDSTONE: as loose grains, clear to light brown, fine to occasionally coarse and very coarse, quartzose, poorly sorted, trace mica, brown clay washing out.
310	320	80		20				P	SANDSTONE: as above. CLAYSTONE: lignitic as above.
320	330	100						E	SANDSTONE: clear, light brown, grey, very fine to very coarse, poorly sorted, angular, rarely well rounded, quartzose, loose.
330	340	100						G	SANDSTONE: as above, becoming more well sorted, fine to medium grained,
340	350	100						G	SANDSTONE: as above, fine to medium grained, trace lignite.
350	360	100						F	SANDSTONE: as above clear to light brown, very fine to medium, predominantly fine, moderate to well sorted, trace grey and brown lithic grains, trace clay matrix washing out.
360	370	100						F	SANDSTONE: as above predominantly fine, well sorted, trace quartz cement.
370	380	100						G	SANDSTONE: as above fine to coarse, clean.
380	390	100						F	SANDSTONE: as above predominantly fine.
390	400	80		20				P	SANDSTONE: clear, grey, dark brown, very fine to very coarse, very poorly sorted, irregular quartz and trace lithic grains, washing out of carbonceous silty clay matrix, grades to SILTY CLAYSTONE:, dark brown. Trace dolomitic cemented sandstone with dull yellow mineral fluorescence.
400	410	90		10					CLAYSTONE: sandy carbonaceous, occurs as laminae.
410	420	80		10			10		SANDSTONE: fine to coarse, loose. COAL, pyritic, lignitic, hard, blocky.

420	430	80		20					SANDSTONE: brown, common clay washing out.
430	440	100						E	SANDSTONE: clean to very light brown, fine to coarse, predominantly medium, occasionally large irregular quartz grains.
440	450	100							SANDSTONE: as above.
450	460	100						E	SANDSTONE: as above, fine to coarse, poorly sorted, quartzose, clean.
460	470	90		10				G	SANDSTONE: as above, fine to granular, ? Laminae of polished quartz and chert pebbles. Trace pyrite, SILTY CLAYSTONE: washing out at shakers.
470	480	100						G	SANDSTONE: medium to very coarse grained, occasionally pink and grey quartz pebbles.
480	490	90		10				F	SANDSTONE: as above, predominantly fine grained with granular pebble bands, angular to subrounded, low sphericity, SILTY CLAYSTONE dark brown with coaly laminae.
490	500	100						G	SANDSTONE: clear to light brown, fine to medium grained well sorted, loose.
500	510	100						G	SANDSTONE: as above, fine to medium, predominantly fine, well sorted.
510	520	100						G	SANDSTONE: as above.
520	530	100						G	SANDSTONE: as above, fine, trace mica.
530	540	100						G	SANDSTONE: as above, fine grained, well sorted, trace fine mica.
540	550	100						G	SANDSTONE: clear to light grey, fine to granular predominantly coarse grained, trace pyrite.
550	560	100						G	SANDSTONE: as above becoming more well sorted.
560	570	100						G	SANDSTONE: as above fine to medium.
570	580	100						F	SANDSTONE: as above, very fine to medium, predominantly fine.
580	590	80		20				F	SANDSTONE: as above.
590	600	40		60				N	SANDY CLAYSTONE: dark brown, blocky to amorphous, sticky, fine quartz sands grains washing out.
600	610	80		10			10	N	SANDY CLAYSTONE: as above grades to coal, dull, very dark brown lignitic.
690	620	100							SANDSTONE: clear to grey, occasionally reddish and yellow grains, loose, fine to medium predominantly fine, angular to subrounded, irregular re-entrant grains, low sphericity, trace cherty lithics, trace silica cement, no shows.
620	630	100						G	SANDSTONE: as above becoming fine to very coarse, poorly sorted.
630	640	80		20				G	SANDSTONE: as above very fine to coarse, loose with trace clay matrix. SILTY CLAYSTONE: dark brown, sandy, slightly calcareous, subfissile.
640	650	80		20				E	SANDSTONE: light brown, fine to predominantly medium grained, predominantly clean loose grains.
650	660	100						E	SANDSTONE: as above.
660	670	100						E	SANDSTONE: as above fine to very coarse.
670	680	100						G	SANDSTONE: as above.
680	690	40		60				F	SANDSTONE: as above SANDY CLAYSTONE as above.
690	700	30		70				F	as above.
700	710	70		30				F	SANDSTONE: as above poorly sorted, polished grains.
710	720	100						E	SANDSTONE: as above medium to coarse, well sorted, clean quartz with trace lithics.
720	730	100						E	SANDSTONE: as above fine to medium, medium.

730	740	100						G	SANDSTONE: as above fine to medium (fine).
740	750	90		10				F	SANDSTONE: Fine to very coarse, poorly sorted, SANDY CLAYSTONE: as above.
750	760	100						E	SANDSTONE: clear, fine to predominantly coarse, moderate sorted, clean.
760	770	100						E	SANDSTONE: as above fine to coarse predominantly medium.
770	780	100						G	SANDSTONE: as above bimodal, fine to coarse, common lithic grains.
780	790	100						F	SANDSTONE: as above, ?clay matrix washing out.
790	800	100						F	SANDSTONE: as above.
800	810	80		20				F	SANDSTONE: as above, CLAYSTONE: dark brown, soft to dispersive.
810	820	100						F	SANDSTONE: as above.
820	830	60		40				P	SANDSTONE: as above up to 40% claystone washing out.
830	840	100						F	SANDSTONE: clear to light grey, fine to very coarse, predominantly medium, moderately sorted, angular to subrounded, fractured grains, dense silica cement, trace carbonaceous matrix and silty carbonaceous inclusions in cement, visible porosity ?fair.
840	850	100						F	SANDSTONE: as above.
850	860	100						P	SANDSTONE: fine to coarse, light brown, predominantly medium, well sorted, predominantly loose, dispersive clay matrix, common coarse mica flakes.
860	870	100							SANDSTONE: as above with silty carbonaceous.
870	880	100						F	SANDSTONE: as above becoming coarse grained, occasionally with lithic feldspathic aggregates, tuffaceous, SILTSTONE lams, brown grey.
880	890	90	10					P	SANDSTONE: as above, SILTSTONE: mottled, grey, brown, very carbonaceous in part, micaceous.
890	900	100						F	SANDSTONE: as above.
900	910	90	10					P	SANDSTONE: as above, SILTSTONE: dark brown to light grey, feldspathic, lithic in part, carbonaceous & micaceous laminae in part.
910	920	90	10					P	SANDSTONE: light brown, fine to coarse, poorly sorted, subrounded, abundant silt and clay matrix washing out. Silty micaceous laminae. In part with abundant lithic and feldspar grains, dense cement.
920	930	100						F	SANDSTONE: as above becoming cleaner.
930	940	90	10					P	SANDSTONE: light brown, very fine to medium grained, well sorted, common silicified siltsone, lithic grains.
940	950	50	50					P	SANDSTONE: light brown, grades to SILTSTONE: lithic micaceous, pyritic in part.
950	960	50	50						SANDSTONE: as above. SILTSTONE: as above.
960	970		100						SILTSTONE: sandy, and clay rich, grey to brown, soft, amorphous, grades to sandy silty claystone, occasionally with coarse to very coarse well rounded quartz grains.
970	980			100					SILTY CLAYSTONE: dark grey to moderate greyish brown. Soft, dispersive in mud, slightly calcareous in part, trace pyrite.
980	990			100					SILTY CLAYSTONE: as above trace pyrite.
990	1000		20	80					SILTSTONE: light grey sucrosic, fine quartz silt. SILTY CLAYSTONE: as above, with carbonaceous laminae in part.
1000	1002			100					SILTY CLAYSTONE: as above.

1002	1005	20		80					SILTY CLAYSTONE: as above, SANDSTONE: light yellowish grey, lithic, dolomitic cement, soft clay matrix in part.
1005	1008	30		70					SILTY CLAYSTONE: becoming sandy grades to sandstone.
1008	1011	60		40				P	SANDSTONE: light brown, very fine to medium grained, poorly sorted, angular, silty clay matrix washing out, micaceous.
1011	1014	100						E	SANDSTONE: very light brown, medium to coarse, well sorted, angular to subrounded, occasionally well rounded, quartzose, clean, loose, slight trace clay matrix in part, trace mica, no shows, visible porosity very good.
1014	1017	100						E	SANDSTONE: as above.
1017	1020	100						F	SANDSTONE: as above clay matrix increasing, vis porosity fair.
1020	1023	80		20				F	SANDSTONE: as above fine to coarse, moderate sorted, interlaminated with the claystone: light brown to dark grey.
1023	1026	100						F	SANDSTONE: light brown, fine to coarse, poorly sorted, angular to subrounded, trace silty clay matrix adhering to grains. Visible porosity fair.
1026	1029	100						F	SANDSTONE: as above.
1029	1032	90	10					G	SANDSTONE: light brown, medium to coarse grained, moderately sorted, predominantly clean, trace mica. SILTSTONE: as above.
1029	1035	100						G	SANDSTONE: medium to very coarse, quartzose, occasionally grey lithic inclusions.
1035	1038	100						F	SANDSTONE: as above trace silicified siltstone as lithic grains.
1038	1041	100						G	SANDSTONE: as above fine to coarse predominantly medium, clean.
1041	1044	100						F	SANDSTONE: clear to white, grey, yellowish brown, speckled, coarse to very coarse, common grey lithic grains, minor carbonaceous clay matrix adhering to grains, silica cement in part, pyritic in part.
1044	1047	100						P	SANDSTONE: as above, fine to coarse, medium, moderately sorted, common grey lithic and silicified carbonaceous siltstone.
1047	1050	40		60					SILTY CLAYSTONE: medium brownish grey, soft, dispersive, possibly sandy, SANDSTONE: as above.
1050	1053	40		60					SILTY CLAYSTONE: as above trace pyrite.
1053	1056			100					SILTY CLAYSTONE: dark to medium brown, dispersive, slightly calcareous in part.
1056	1059	30		70					SILTY CLAYSTONE:: as above.
1059	1062	20		80					SILTY CLAYSTONE: as above trace pyrite.
1062	1065	10	10	80					SILTY CLAYSTONE: dark grey to moderate greyish brown. Soft to occasionally firm, subfissile to amorphous, calcareous in part, grades to SILTSTONE, trace pyrite as nodules, trace carbonaceous fragments, minor laminae of well rounded quartz grains.
1065	1068	30	10	50			10		SILTY CLAYSTONE: light to dark grey brown, very finely sandy, grades to very fine sandstone. SANDSTONE: as loose medium to coarse grains washing out of mudstone, and as very fine sucrosic bands, trace PYRITE as crystalline aggregates.
1068	1071	10		90					SILTY CLAYSTONE: as above, trace ? Resin orange fluorescence, non hydrocarbon.
1071	1074			100					SILTY CLAYSTONE: as above, trace loose very coarse volcanic quartz.
1074	1077			100					SILTY CLAYSTONE: as above, sandy, common pyrite. Trace forams & bryozoans.

1077	1080		30	70					SILTY CLAYSTONE: as above occasionally coarse sandy laminations, grades to Siltstone.
1080	1083			100					SILTY CLAYSTONE:: as above, dispersive to fissile.
1083	1086			100					SILTY CLAYSTONE: as above occasionally with coarse sand grains.
1086	1089			100					SILTY CLAYSTONE: as above occasionally with forams.
1089	1092			100					SILTY CLAYSTONE: as above, trace very fine sandstone, calcareous.
1092	1095			100					SILTY CLAYSTONE: as above grades to SHALE: dark grey, pyritic, trace TUFF: pale grey, soapy.
1095	1098			100					SILTY CLAYSTONE: medium to dark brown and dark grey as shale, trace calcareous sandstone, lithic, densely cemented.
1098	1101			100					SILTY CLAYSTONE: as above, very finely sandy.
1101	1104	20		80				N	SILTY CLAYSTONE: very finely sandy. SANDSTONE: light brown, hard.
1104	1107	30	20	50				N	SANDSTONE: brown, very fine grained, silty, very poorly sorted, dense siliceous and calcareous cement, grades to siltstone. SILTY CLAYSTONE: as above.
1107	1110			100					SILTY CLAYSTONE: as above.
1110	1113	30		70				N	SANDSTONE: predominantly as above, reddish brown oxidised in part, poorly sorted, calcareous.
1113	1116	50		50				N	SANDSTONE: light brown as above.
1116	1119	50		50				N	SANDSTONE: as above.
1119	1122			100					SILTY CLAYSTONE: pale greyish brown, soft, pulpy, finely sandy.
1122	1125			100					SILTY CLAYSTONE: as above.
1125	1128	40		50			10		SANDSTONE: light brown to brown, fine, well sorted, brown clay matrix, visible porosity nil. Coal, black.
1128	1131	70		30				P	SANDSTONE: brown to light brown, very fine to medium, angular, poorly sorted.
1131	1134	60		40					SANDSTONE: brown, fine-grained, well sorted, clay matrix.
1134	1137			100					SILTY CLAYSTONE: as above.
1137	1140			100					SILTY CLAYSTONE: as above pulpy, amorphous.
1140	1141	100							spot sample. SANDSTONE: white to brown, fine to coarse, very calcareous, hard, fracs across grains, trace very dull orange min fluorescence.
1141	1143			100					SILTY CLAYSTONE: as above.
1143	1146			100					SILTY CLAYSTONE: as above sand grains washing out.
1146	1149			100					SILTY CLAYSTONE: as above with coarse sand washing out? Sand laminations, bit drilling poorly and samples badly pulped.
1149	1152			100					
1152	1155			100					
1155	1158			100					Bit trip at 1158.
1158	1161	40		60					SILTY CLAYSTONE: dark grey, subfissile, laminated with very fine sandstone.
1161	1164	30		70					Laminated as above.
1164	1167	30		70					SANDSTONE: light brown, very fine to medium, abundant grey lithic grains.
1167	1170	10		90					SILTY CLAYSTONE: dark grey, subfissile, laminated with very fine sandstone.
1170	1173	10		90					SILTY CLAYSTONE:: as above.

1173	1176			100					SILTY CLAYSTONE: as above becoming soft amorphous.
1176	1179	30		70					SANDSTONE: as loose fine and medium grains washing out of ? Laminations in mudstone.
1179	1182			100					SILTY CLAYSTONE: as above , trace very fine sandstone laminations.
1182	1185	10		90					SILTY CLAYSTONE: medium to dark greyish brown, soft, amorphous, occasionally hard subfissile to splintery, laminated with very fine sandstone.
1185	1188			100					SILTY CLAYSTONE: medium to dark grey, soft to firm, subfissile to splintery.
1188	1191			100					SILTY CLAYSTONE: as above.
1191	1194			100					SILTY CLAYSTONE: as above fine sandstone laminations.
1194	1197			100					SILTY CLAYSTONE: as above.
1197	1200			100					
1200	1203			100					SILTY CLAYSTONE: fissile to subfissile, splintery, dolomitic in part, trace very fine sandy laminations.
1203	1206			100					SILTY CLAYSTONE: as above calcareous.
1206	1209			100					SILTY CLAYSTONE: dark grey, fissile firm calcareous.
1209	1212			100					SILTY CLAYSTONE: as above calcareous, dolomitic greyish yellow very hard in part.
1212	1215			100					SILTY CLAYSTONE: as above interlaminated with trace LIMESTONE: yellowish greyish brown, argillaceous, grades to mudstone.
1215	1218			90	10				SILTY CLAYSTONE: and LIMESTONE: as above.
1218	1221			100					SILTY CLAYSTONE: as above trace forams, grades to arg LIMESTONE.
1221	1224			100					SILTY CLAYSTONE: medium to dark grey to greyish brown, trace marine fossils, trace carbonaceous material, very fine sandy micaceous laminations, subfissile to splintery.
1224	1227			100					SILTY CLAYSTONE: as above becoming smooth waxy, non silty in part, fossils.
1227	1230			100					SILTY CLAYSTONE: grades to trace arg dolomite.
1230	1233			100					SILTY CLAYSTONE: as above.
1233	1236			100					SILTY CLAYSTONE: as above dark grey, grades to waxy non silty shale, calcareous, micromicaceous.
1236	1239			100					SILTY CLAYSTONE: as above, firm to hard, grades to arg LIMESTONE yellowish grey, trace forams.
1239	1242			100					SILTY CLAYSTONE: as above dark grey, waxy, silty to non silty.
1242	1245			100					SILTY CLAYSTONE: as above.
1245	1248			100					SILTY CLAYSTONE: shaley.
1248	1251			100					SILTY CLAYSTONE: as above in part pale grey, soft, silty.
1251	1254			100					SILTY CLAYSTONE: as above shaley.
1254	1257			100					SILTY CLAYSTONE: as above in part silty, softer.
1257	1260			100					SILTY CLAYSTONE: as above, homogeneous.
1260	1263			100					CLAYSTONE: medium grey, silty in part, soft to firm, calcareous in part.
1263	1266			100					CLAYSTONE: as above.
1266	1269			100					CLAYSTONE and SILTY CLAYSTONE as above, grades to trace arg DOLOMITE yellowish grey.

1269	1272	trace		100					SILTY CLAYSTONE: medium brownish grey, to very dark grey brown, firm, occasionally yellowish grey/dolomitic, subfissile, grades to carbonaceous shale in part, SANDSTONE, trace, green black, carbonaceous, glauconitic in part, trace crinoid stems.
1272	1275			100					SILTY CLAYSTONE: as above.
1275	1278			100					SILTY CLAYSTONE: as above.
1278	1281			100					SILTY CLAYSTONE: as above.
1281	1284			100					SILTY CLAYSTONE: very dark grey, interlaminated with lighter more silty less carbonaceous lithologies.
1284	1287			100					Interlaminated carbonaceous and non carbonaceous silty claystone as above.
1287	1290			100					as above, occasionally lams with buff dolomite, and with glauconite stringers.
1290	1293			100					SILTY CLAYSTONE: predominantly dark grey as above (shale) fissile to blocky, large firm cuttings, calcareous stringers.
1293	1296			100					SILTY CLAYSTONE: dark grey to very dark brown, blocky, soft to hard, sandy in part, interlaminated as above.
1296	1299			100					SILTY CLAYSTONE: dark grey, very dark brown, subfissile to splintery, blocky in part, slightly calcareous, occasional laminations of light grey siltstone and of dolomitic mudstone.
1299	1302			100					I/L
1302	1305			100					interlaminated as above, predominantly dark, carbonaceous.
1305	1308			100					SILTY CLAYSTONE: as above
1308	1311	5		95					SILTY CLAYSTONE: as above. GLAUCONITIC SANDSTONE: black, fine grained, irregular pellets, glauconite & chamosite, quartz subordinate, no shows.
1311	1314	40		60				P	GLAU SANDSTONE: glauconite pellets 50% of grains, fine grained, well sorted, predominantly loose, clay matrix. SILTY CLAYSTONE: in part as above. in part glauconitic. No shows.
1314	1317	100						P	GLAU SANDSTONE: brown to dark green to black, 70% quartz, 30 % glauconite, quartz angular to subrounded, common lithics and composite quartz grains, clay matrix.
1317	1320	60		40				N	GLAU SANDSTONE: as above becoming very poorly sorted, irregular quartz and glauconite grains in mud matrix, pyritic in part, grades GLAU SILTY CLAYSTONE.
1320	1323	60		40				N	GLAU SANDSTONE: grades to GLAU MUDSTONE as above, very poorly sorted, quartz fine to very coarse, pyritic cement in part. Common fractured quartz granules.
1323	1326	90		10				F	SANDSTONE: quartzose, clear to light grey, medium to very coarse, moderately sorted, angular, irregular grains, common silica cement, hard.
1326	1329	80		20				F	SANDSTONE: clear to white to light grey, fine to very coarse, angular & fractured quartz.
1329	1332	100						G	SANDSTONE: white to grey, fine to coarse, poorly sorted, abundant shattered grained.
1332	1335	70		30				G	SANDSTONE: as above fine to very coarse, shattered.
1335	1338	80		20				P	SANDSTONE: as above shattered, common lithic grains, SILTY CLAYSTONE: moderate to dark grey, laminated, subfissile.
1338	1341	80		20				P	SANDSTONE: as above densely cemented with silica, and in part pyrite, lithics.

1341	1344	80		20				P	SANDSTONE: as above.
1344	1347	60		40				P	SANDSTONE: as above. SILTY CLAYSTONE: very dark grey to very dark brown, trace glauconite.
1347	1350	80		20				P	SANDSTONE: as above, fractured grains, SILTY CLAYSTONE: as above.
1350	1353	80		20				N	SANDSTONE: as above grades to very fine (interbeds), poorly sorted . SILTY CLAYSTONE: greyish brown, pyritic.
1353	1356	90		10				F	SANDSTONE: clr white grey, fine to coarse, rounded to angular, fractured, predominantly clean,
1356	1359	90		10				F	SILTY CLAYSTONE: as above trace glauconite, pyritic, grades to SILTSTONE: dark brown, trace carbonaceous matter.
1359	1362	100						F	SANDSTONE: brown, fine to medium occasionally coarse, poorly sorted, well rounded to angular, fractured, silty matrix in part.
1362	1365	100						P	SANDSTONE: clear to white, brown, predominantly coarse, all fractured grains, angular before being fractured.
1365	1368	100						P	SANDSTONE: light brown, predominantly coarse, predominantly angular, occasional well rounded grains, silica and occasional pyritic cement.
1368	1371	90		10				N	SANDSTONE: as above. SILTY CLAYSTONE: interlaminated, dark grey and light grey, silty.
1371	1374	99					1	F	SANDSTONE: clear-white -brown, fine to coarse, poorly sorted, fractured quartz, nil matrix, grey lithics.. Trace coal.
1374	1377	80		20					SANDSTONE: as above.
1377	1380	99					1	G	SANDSTONE: clear to grey, fine to coarse, medium, quartzose, moderate silica cement, trace lithics, vis porosity fair, no shows, trace coal.
1380	1383	100						G	SANDSTONE: as above no shows.
1383	1386	90		10				P	SANDSTONE: light brown, fine - medium (medium, well sorted, subang to subrounded, loose, clay matrix, SILTY CLAYSTONE: grades to SILTSTONE.
1386	1389	100						N	clear to white, loose, 100% quartz, dense overgrowths.
1389	1392	100						N	SANDSTONE: as above, FLUORESCENCE, 0ne grain, blue white. no cut, ?plant resin or contamination.
1392	1395	70		30				N	SANDSTONE: clear, very coarse, fractured. SILTY CLAYSTONE: medium to dark grey, subfissile, micromicaceous, firm. Bit died.
1395	1398	60		40				N	SANDSTONE: as above.
1398	1401	10	10	80					SILTY CLAYSTONE.
1401	1404	40	10	50					SILTY CLAYSTONE: medium greyish brown with white bands, grades to SILTSTONE:. One grain resin fluorescence, as previously described.
1404	1407	90		10				F	SANDSTONE: white, medium to coarse, angular, poorly sorted, predominantly loose, silica cement, SILTY CLAYSTONE: laminated as above.
1407	1410	90		10				P	SANDSTONE: and SILTY CLAYSTONE: as above, single grain resin fluorescence.
1410	1413	60		40				N	SANDSTONE: as above becoming fine to medium. SILTY CLAYSTONE: as above.
1413	1416	100						F	SANDSTONE: as above, medium to very coarse grained, clear, trace pyrite cement, dense silica cement, poorly sorted, angular.
1416	1419	90		10				F	SANDSTONE: clear, coarse, moderately sorted, angular, predominantly loose, visible porosity fair, no shows.

1419	1422	100						G	SANDSTONE: clear white, light brown, fine to coarse, angular to subrounded, quartzose. No show.
1422	1425	100						G	SANDSTONE: as above trace silty clay matrix.
1425	1428	100						G	
1428	1431	100						G	SANDSTONE: as above, fine to coarse, trace carbonaceous shale. One grain resin fluorescence.
1431	1434	100						G	SANDSTONE: clear to white, fine to coarse, poorly sorted, angular to subrounded, loose, no shows.
1434	1437	90		10				P	SANDSTONE: as above, becoming very fine to medium. SILTY CLAYSTONE: Interlaminated, dark grey carbonaceous shale and light grey, very silty. One grain resin fluorescence.
1437	1440	100						G	
1440	1443	100						G	SANDSTONE: medium to coarse, moderately sorted, predominantly loose, angular to sub-rounded, trace grey and green lithics. Visible porosity good.
1443	1446	100						G	
1446	1449	100						G	SANDSTONE: as above. Fine to coarse, predominantly loose, trace quartz, visible porosity good. One grain resin fluorescence, no show.
1449	1453	100						G	SANDSTONE: as above trace red jasper.
1453	1455	100							SANDSTONE: as above fine to coarse, poorly sorted, silica cement visible porosity good.
1455	1458	100						G	as above
1458	1461	50	10	40				P	SANDSTONE: as above becoming very fine grained, silty, very poorly sorted, in part very fine, grades to SILTSTONE>. SILTY CLAYSTONE: carbonaceous, black in part, laminated pale to medium dark grey in part.
1461	1464	70		30				P	SANDSTONE: clear to grey, fine to coarse, subangular to subrounded. SILTY CLAYSTONE: medium grey, carbonaceous flakes.
1464	1467	70		30					SANDSTONE: clear to grey, fine to coarse, angular to subrounded, poorly sorted, silica cement.
1467	1470	100						P	SANDSTONE: as above, pyrite cement, siliceous overgrowths, predominantly loose, fractured.
1470	1473	100						F	SANDSTONE: as above, common pyrite.
1473	1476	90		10				P	SILTY CLAYSTONE: greyish brown, to very dark brown, subfissile, micaceous. SANDSTONE: as above.
1476	1479	100						F	SANDSTONE: clr to grey, fine to medium grained, well sorted, angular to subrounded, silica cement.
1479	1482	100						G	SANDSTONE: fine grained, well sorted, visible porosity good. one grain resin fluorescence.
1482	1485	100						G	SANDSTONE: as above becoming medium grained, predominantly loose, visible porosity fair to good.
1485	1488	100						G	SANDSTONE: as above
1488	1491	100						G	SANDSTONE: as above becoming fine to coarse, quartz overgrowths, trace glauconite.
1491	1494	100						F	SANDSTONE: as above fine to coarse grained.
1494	1497	100						G	SANDSTONE: fine to coarse predominantly medium grained. Trace pyrite cement, predominantly clean.
1497	1500	90		10				F	SANDSTONE: as above. SILTY CLAYSTONE: grey brown, carbonaceous specks, grades to very dark brown carbonaceous shale.

1500	1503	80		20				F	SANDSTONE: as above very fine to very coarse, grades to siltstone in part. Poorly sorted. SILTY CLAYSTONE:
1503	1506	80		20				F	SANDSTONE: as above very poorly sorted.
1506	1509	80		20				F	SANDSTONE: moderately sorted, sub-rounded, visible porosity fair to good.
1509	1512	70		20			10		SANDSTONE: as above fine to coarse, SILTY CLAYSTONE: as above becoming more carbonaceous, coaly. Few grains, bright yellow to white solid fluorescence from ?resin: translucent yellowish brown material associated with carbonaceous matter. Strong white crush cut and dull yellow ring residue.
1512	1515	90		10					SANDSTONE: fine to coarse , poorly sorted, clay matrix washing out, pyrite cement. SILTY CLAYSTONE: medium grey.
1515	1518	80		20					SANDSTONE: fine to coarse, poorly sorted, angular, fractured grains, grey lithics.
1518	1521	60		40				P	SANDSTONE: grey, fine to coarse, predominantly fine, moderate sorted, fine aggregates and loose medium to coarse grains. Silica cement, calcareous in part. SILTY CLAYSTONE: medium dark grey, very finely laminated, trace carbonaceous material.
1521	1524	50		50				N	SANDSTONE: grey, very fine to fine grained, occasionally medium and coarse, angular, poorly sorted, silica and trace calcareous cement, trace pyrite, trace carbonaceous material, visible porosity poor to nil. SILTY CLAYSTONE: medium grey, occasionally dark gy, speckled and laminated, micromicaceous, trace resin flu as above.
1524	1527	70		30					SANDSTONE: as above silty matrix, trace pyrite. SILTY CLAYSTONE: laminated light to dark grey as above.
1527	1530	50	30	20					SILTY CLAYSTONE: as above light bands grades to SILTSONE, sucrosic.
1530	1533	60	20	20					SANDSTONE: clear to grey, very fine to fine, well sorted, carbonaceous lams in part, angular dense silica cement, grades to SILTSTONE, light grey, finely laminated, pyrite.
1533	1536	50		50				P	SILTY CLAYSTONE: medium grey to rarely brown, blocky to subfissile, rarely carbonaceous, interlaminated, firm, SANDSTONE: light grey, fine to medium, well sorted, siliceous, pyritic.
1536	1539	80		20				F	SANDSTONE: fine to medium (fine) predominantly loose, clay matrix and slightly siliceous.
1539	1542	80		20					as above
1542	1545	60		40					SANDSTONE: light brown, very fine, coarse, poorly sorted, angular to subrounded, siliceous, pyritic, trace calcareous cement, SILTY CLAYSTONE: light to dark grey, grades to SILTSTONE.
1545	1548	50		50					SILTY CLAYSTONE: medium to dark grey, blocky, -subfissile, trace very fine carbonaceous material, micromicaceous, finely laminated. SANDSTONE: very fine to fine, poorly sorted, pyritic, trace calcareous.
1548	1551	80		20					SANDSTONE: as above, fine, well sorted, quartz overgrowths.
1551	1554	60		40					SILTY CLAYSTONE: laminated as above.
1554	1557	100						F	SANDSTONE: fine to medium well sorted, angular, siliceous visible porosity fair.
1557	1560	60		40					SILTY CLAYSTONE:: laminated as above.
1560	1563	59		40			1		SANDSTONE: very fine to medium, poorly sorted, SILTY CLAYSTONE: as above, trace COAL.
1563	1566	30		70					CLAYSTONE: dispersive, washing out. SANDSTONE: as above.

1566	1569	50		50					SANDSTONE: very fine to medium (fine), siliceous, pyritic.
1569	1572	50	10	40					SANDSTONE: becoming very fine. Interlaminated with siltstone and silty claystone.
1572	1575	50		50					SANDSTONE: as above very fine.
1575	1578	70		29			1		SANDSTONE: very fine to fine, medium, pyritic, predominantly loose.
1578	1581								
1581	1584	70	10	20					SANDSTONE: clear to light grey, fine to coarse, medium, subangular to subrounded, well sorted, predominantly loose, clay matrix.
1584	1587	80	10	10					SANDSTONE: very fine to medium (fine) moderately sorted, siliceous pyrite cement in part, trace lithics, trace glauconite, SILTSONE: laminated grades to SILTY CLAYSTONE: as above trace carbonaceous material.
1587	1590	50	20	30					SANDSTONE: becoming finer, grades to sandy siltstone.
1590	1593	80		20					SANDSTONE: as above clay washing out.
1593	1596	20	60	20					SILTSTONE: very light grey to medium grey, occasionally greyish orange (dolomitic), trace glauconite, firm to hard, slightly carbonaceous in part.
1596	1599	50	30	20					SANDSTONE: very fine to fine (fine) poorly sorted, subangular to subrounded, grades to siltstone and to silty claystone.
1599	1602	50	30	20					SANDSTONE: as above becoming well sorted, pyritic, grades to SILTSONE: white to grey, occasionally brown, fine carbonaceous material, grades to SILTY CLAYSTONE: greyish brown, trace DOLOMITE: greyish orange, hard glauconitic in part.
1602	1605	30	30	40					as above sst: with clay matrix, 3 grain of resin fluorescence.
1605	1608	20	10	70					SILTSTONE: medium grey to white grades to very fine sandstone, carbonaceous specks. SILTY CLAYSTONE: medium to dark grey, with carbonaceous laminations.
1608	1611								
1611	1614	30		70				N	SILTY CLAYSTONE: light to medium grey, very finely sandy, carbonaceous specks. SANDSTONE: very fine, laminated.
1614	1617			100					SILTY CLAYSTONE: light to medium grey, very finely sandy in part, smooth in part, trace carbonaceous material.
1617	1620	20	10	70					SILTY CLAYSTONE: as above trace feldspar, trace glauconite.
1620	1623	30	40	30					SILTSONE: grey, clay rich grades to SILTY CLAYSTONE. SANDSTONE: very fine silty.
1623	1626	50		50				P	SANDSTONE: very fine to fine, well sorted, clay matrix.
1626	1629	10	40	50				N	Laminated SILSTONE: white to very light grey, and SILTY CLAYSTONE: medium grey.
1629	1632								
1632	1635			100					CLAYSTONE: medium to dark grey, sandy, washing out in part.
1635	1638	90		10					SANDSTONE: very fine to fine grained, loose disaggregated, lithic, feldspar. SILTY CLAYSTONE: laminated.
1638	1641								
1641	1644	60		40					SANDSTONE: as above. SILTY CLAYSTONE: medium grey.
1644	1647								

1647	1650	90							SANDSTONE: grey to white, laminated, very fine to fine grained, loose, well sorted, siliceous. SILTY CLAYSTONE: as above.
1650	1653								
1653	1656	80		19			1		SANDSTONE: as above but becoming predominantly aggregates. SILTY CLAYSTONE: as above.
1656	1659	70		29			1		sst: as above very fine, silty aggregates, laminated with SILTY CLAYSTONE: as above trace COAL, black, brittle.
1659	1662	80		20				N	SST: as above.
1662	1665	20	20	60					SILTY CLAYSTONE: laminated medium grey medium greyish brown, blocky, trace carbonaceous matter.
1665	1668	70		30					SANDSTONE: very fine to fine, aggregates and loose grains.
1668	1671								
1671	1674	60		40					SILTY CLAYSTONE: medium to dark grey, subfissile. SANDSTONE: very fine to fine grained, silty, siliceous, lithics, feldspar, trace carbonaceous material.
1674	1677	70		30					as above.
1677	1680	80		20					SANDSTONE: as above. SILTY CLAYSTONE: laminated.
1680	1683	60	40						SILTY CLAYSTONE: grades to silty claystone.
1683	1686	60	40						SANDSTONE: as above very fine to coarse, trace glauconite, trace DOLOMITE.
1686	1689	50	40	10					SANDSTONE: 50% SILTSTONE: 40% CLAYSTONE 10%.
1689	1692	50	40	10					as above.
1692	1695	70	10	20					SANDSTONE: as above becoming very poorly sorted, common very coarse grains.
1695	1698	80	20						SANDSTONE: very fine to medium grained.
1698	1701	90	10					F	SANDSTONE: very fine to predominantly medium, predominantly loose, trace pyrite, well sorted, subangular to sub rounded, clean, trace clay washing out.
1701	1704	90		10					as above, siltstone grades to silty clay, trace pyrite.
1704	1707	100						G	SANDSTONE: medium grained, well sorted, quartzose. SILTSTONE: as above. Rare pyrite and coaly fragments.
1707	1710	60		40					SANDSTONE: 60% SILTSTONE: 40%.
1710	1713	60		40					SANDSTONE: 60% SILTSTONE: 40%.
1713	1716	70		30					SST as above fine to coarse, SILTY CLAYSTONE: grey, homogeneous.
1716	1719	100						G	SANDSTONE: clear to white, occasionally yellow, fine to coarse predominantly medium, loose, angular to occasionally well rounded.
1719	1722	100							as above
1722	1725	100							as above
1725	1728	100						G	as above
1728	1731	100						G	as above
1731	1734	100						G	as above
1734	1737	100						G	as above
1737	1740	100						G	as above
1740	1743	80		20					SILTY CLAYSTONE: medium grey to medium brown, sandy, glauconitic in part, trace carbonaceous material interlaminated.
1743	1746	80		20					as above

1746	1749	80		20					as above
1749	1752	90		10					SANDSTONE: fine grained, trace glauconite, well sorted.
1752	1755	90		10					as above
1755	1758	90		10				F	SANDSTONE: fine to medium grained predominantly fine, predominantly loose, clay matrix, siliceous cement, trace lithic grains, visible porosity fair.
1758	1761	80		20					
1761	1764	70		30					SANDSTONE: 70% SILTY CLAYSTONE: 30%.
1764	1767	60		40					
1767	1770	60		40					Drill bit underperforming.
1770	1773	50		50					SANDSTONE: 50% SILTY CLAYSTONE: 50%.
1773	1776	40	40	20					SANDSTONE: clear to grey, very fine to medium (fine), well sorted, subangular to subrounded, common siliceous cement, SILTSTONE: speckled grey, slightly carbonaceous, trace glauconite. SILTY CLAYSTONE: medium to dark greyish brown, trace carbonaceous laminae.
1776	1779	70		30					as above, becoming more carbonaceous.
1779	1782	60		40					
1782	1785	80		20					SANDSTONE: as above becoming very fine grained, with carbonaceous laminae, common lithic grains.
1785	1788	70		30					SANDSTONE: as above, very fine grained, silty, carbonaceous laminae. CLAYSTONE: medium grey, carbonaceous in part.
1788	1791	90	10						SANDSTONE: Medium grained, occasionally coarse, quartzose, moderate well sorted, coarser grained are rounded. SILTSTONE: Light grey with carbonaceous flecks, grading to very fine sandstone. Rare pyrite cement, rare glauconite.
1791	1794	100							60%SANDSTONE: Fine to medium grained, moderately sorted, quartzose. 40%SANDSTONE: Very fine grained with carbonaceous flecks grading to medium greyish brown siltstone. Rare coaly fragments, rare pyrite cement.
1794	1797	100							a/a with rare subrounded coarse quartz grains.
1797	1800	95	5						SANDSTONE: Disaggregated, fine to medium grained, well sorted, sub-rounded, quartzose SILTSTONE: Light greyish brown with carbonaceous flecks and laminae. Rare glauconite.
1800	1803	90	10						SANDSTONE: Medium grained, well sorted, quartzose. SILTSTONE: as above. Rare pyrite and coaly fragments.
1803	1806	90	10						as above
1806	1809	100							SANDSTONE: Disaggregated, medium to coarse grained, quartzose, original grains subrounded, grain boundaries now sutured. SILTSTONE: Trace as above.
1809	1812	40	60						SILTSTONE: Light brownish grey with carbonceous flecks grading to very fine sandstone. SANDSTONE: Disaggregated medium grained quartz sand, well sorted, sa-sr. Occasional coarse grains. Rare pyrite.
1812	1815	100							50%SANDSTONE: Disaggregated, medium to coarse, quartzose. 50%SANDSTONE: Light brownish grey, very fine to fine grained with carbonaceous flecks, grading to siltstone.

1815	1818	70	30						SANDSTONE: Very fine to fine grained, well sorted, quartzose, carbonaceous flecks, friable. Trace pyrite cement. SILTSTONE: Medium grey to medium brownish grey, carbonaceous flecks in part, soft.
1818	1821	70	30						as above
1821	1824	100							SANDSTONE: Disaggregated, fine to medium grained, quartzose, well sorted, sa-sr. Rare glauconite. Trace SILTSTONE.
1824	1827	100							as above
1827	1830	100							as above
1830	1833	30	70						SILTSTONE: Medium grey to medium dark grey, trace carbonaceous flecks, soft to firm, grading to very fine sandstone. SANDSTONE: Very fine to occasionally fine grained, firm.
1833	1836	70	30						SANDSTONE: Fine grained, well sorted, quartzose, generally disaggregated, occasional hard siliceous fragments. SILTSTONE: Medium grey to medium brownish grey, some carbonaceous flecks, soft to firm, grading to very fine sandstone. Rare pyrite.
1836	1839	90	10						SANDSTONE: Disaggregated fine to medium grained, well sorted, quartzose. SILTSTONE: as above
1839	1842	100							SANDSTONE: Disaggregated, fine to medium grained, well sorted, sa-sr, quartzose. Occasional coarse grains. Trace siltstone as above, rare pyrite and glauconite.
1842	1845	100							SANDSTONE: clear, to light grey, yellow, fine to medium grained, well sorted, angular to subrounded, predominantly loose, occasionally aggregates with silty matrix washing out. Trace SILTSONE medium grey, speckled, with carbonaceous laminations.
1845	1848	100							as above
1848	1851	90	10						SANDSTONE: clear to light brown, yellow grain in part, fine grained, well sorted, trace mica and lithics, SILTSTONE: medium to dark grey, greyish brown, blocky, very finely sandy, trace carbonaceous material.
1851	1854	90	10						SANDSTONE: very fine to coarse, poorly sorted, silty matrix, SILTSTONE: medium to dark grey, greyish brown, blocky, very finely sandy, trace carbonaceous material.
1854	1857	80		20					SANDSTONE: light grey, very fine to coarse, (fine), poorly sorted, siliceous cement. SILTY CLAYSTONE: medium greyish brown, pyritic in part. 1 grain resin fluorescence.
1857	1860	90	10						SANDSTONE: predominantly medium grained, quartzose, well sorted, subangular to subrounded, disaggregated, fractured grains, rare mica.
1860	1863	90	10						SANDSTONE: Predominantly medium grained, sub-angular to sub-rounded, well sorted, quartzose. Disaggregated, fractured grains. Rare mica fragments. SILTSTONE: Medium grey with carbonaceous flecks.
1863	1866	90	10						as above
1866	1869	50	50						SANDSTONE: Disaggregated, medium to coarse grained, quartzose. Grains originally sr-r. Sub-angular grain boundaries where broken along sutures. SILTSTONE: Medium grey, carbonaceous, with laminations of very fine quartzose sandstone. Firm to friable. Rare pyrite. Rare dull yellow pinprick fluorescence associated with coaly frags. No cut.
1869	1872	50	50						as above

1872	1875	60	40						as above
1875	1878	60	40						as above
1878	1881	70	30						as above
1881	1884	70	30						as above
1884	1887	50	50						as above
1887	1890	100							as above
1890	1893	100							SANDSTONE: Disaggregated, fine to medium grained, well sorted, sr, quartzose. Rare coarse grains. Trace siltstone.
1893	1896	100							as above
1896	1899	95	5						SANDSTONE: Disaggregated, fine to coarse grained. Some grains continue to have fractured appearance suggesting grain suturing, silica overgrowths. SILTSTONE: as above.
1899	1902	95	5						as above
1902	1905	90	10						SANDSTONE: Medium to very coarse grained, well sorted, originally sr, generally disaggregated, evidence of sutured grain boundaries/silica overgrowths where not disaggregated. SILTSTONE: Medium grey, medium brownish grey, carbonaceous with laminations very fine quartz sandstone. Rare pyrite.
1905	1908	100							SANDSTONE: Generally disaggregated, fine to medium grained, well sorted, quartzose, grains originally sr. Some fragments show evidence of grain suturing. Rare firm to friable sandstone aggregates. Trace siltstone as above. Rare pyrite.
1908	1911	100							as above
1911	1914	100							SANDSTONE: Disaggregated, generally medium to coarse grained, occasionally fine grained, well sorted, sub-angular to sub-rounded, quartzose. Trace siltstone as above.
1914	1917	100							as above
1917	1920	100							as above
1920	1923	100							as above
1923	1926	100							as above
1926	1929	100							as above
1929	1932	100							as above
1932	1935	100							as above
1935	1938	100							as above
1938	1941	100							as above
1941	1944	100							as above
1944	1947	100							as above
1947	1950	100							as above
1950	1953	100							as above
1953	1956	100							as above
1956	1959	100							as above
1959	1962	100							as above
1962	1965	100							as above
1965	1968	100							as above
1968	1971	80	20						SANDSTONE: Disaggregated, fine to medium grained, well sorted, sa-sr, quartzose. SILTSTONE: Medium grey, medium brownish grey, soft-firm. Rare pyrite and glauconite.

1971	1974	100							SANDSTONE: Disaggregated, predominantly medium grained grading to coarse grained, well sorted, quartzose. Original grains rounded. More common glauconite. Trace siltstone, greyish brown, soft-firm, carbonaceous in part, argillaceous in part.
1974	1977	100							as above
1977	1980	70	30						SANDSTONE: as above. SILTSTONE: as above with lenses and laminae of very fine quartz sandstone.
1980	1983	60	35	5					SANDSTONE: Very fine to fine grained, well sorted, quartzose with carbonaceous flecks, friable, grading to SILTSTONE: Medium grey, carbonaceous, soft, grading to CLAYSTONE: brown, firm, silty. Rare pyrite and glauconite.
1983	1986	60	35	5					as above
1986	1989	90		10					50%SANDSTONE: Disaggregated, fine to medium grained, well sorted, quartzose, original grains rounded to sub-rounded. 40%SANDSTONE: Very fine to fine grained, quartzose aggregates with carbonaceous flecks and laminae, trace glauconite cement, firm to friable. SILTSTONE: Medium grey brown, fissile, soft to firm. Rare pyrite and mica flakes.
1989	1992	90		10					80% SANDSTONE: Disaggregated, fine to medium grained as above. 10%SANDSTONE: Very fine to fine grained aggregates as above. SILTSTONE as above. Rare coaly fragments.
1992	1995	90		10					as above
1995	1998	80		20					SANDSTONE: Medium light grey, very fine to fine grained aggregates, well sorted, quartzose, common carbonaceous flecks, friable to firm, grading to SILTSTONE: Medium grey brown, slightly carbonaceous, soft to firm, fissile.
1998	2001	40	30	20	10				Interlaminated very fine SANDSTONE, SILTSTONE and CLAYSTONE, trace DOLOMITE, greyish yellow silty.
2001	2004	60	30	10					Interlaminated very fine SANDSTONE, SILTSTONE and SILTY CLAYSTONE.
2004	2007	60	40						SANDSTONE: very fine to fine grained, poorly sorted, silty, siliceous, trace feldspar, trace carbonaceous material grades to SILTSTONE: dark grey hard.
2007	2010	40	20	40					SANDSTONE: grey, very fine, silty, poorly sorted, friable aggregates, grades to SILTSTONE and SILTY CLAYSTONE.
2010	2013	10	70	20					SILTSTONE: medium dark grey, very finely sandy, firm to hard, blocky.
2013	2016		40	60					SILTSTONE and SILTY CLAYSTONE as above, trace CLAYSTONE, medium brown, to dark brown, trace DOLOMITE: pinkish to orange grey, sandy, trace glauconite, very hard.
2016	2019		40	60					SILTSTONE and CLAYSTONE as above.
2019	2022		80	20					SILTSTONE grades to SILTY CLAYSTONE as above, and too CLAYSTONE, dark grey, fissile.
2022	2025		40	59	1				SILTSTONE: medium to dark grey, very finely sandy, firm to hard, grades to SILTY CLAYSTONE. Trace DOLOMITE: pinkish to orange grey, sandy, trace glauconite, very hard.
2025	2028	40	60						SILTSTONE: Dark grey, rarely dark greyish brown, minor carbonaceous flecks, firm, grading to very fine sandstone in part. Possibly sideritic in part. SANDSTONE: Disaggregated, predominantly medium grained, well sorted, rounded, quartzose. Trace sandy dolomite. Rare glauconite.

2028	2031	60	40						40% SANDSTONE: Disaggregated, predominantly medium grained, well sorted, quartzose, grains originally rounded. Common quartz overgrowths. Crystal forms indicate some porosity. 20% SANDSTONE: Light grey, very fine to fine grained quartzose aggregates. Firm to friable. 40%SILTSTONE: As above. Trace sandy dolomite. Rare glauconite.
2031	2034	60	40						as above
2034	2037	100							SANDSTONE: Disaggregated, predominantly medium grained, well sorted, original grains rounded, now angular due to quartz overgrowths. Rare quartz crystals indicate some vuggy porosity. Rare glauconite. Trace carbonaceous siltstone.
2037	2040	90	10						SANDSTONE: Medium to coarse grained as above. SILTSTONE: Greyish brown, with carbonaceous to coaly flecks and fragments, firm, grading to very fine sandstone.
2040	2043	70	30						SANDSTONE: Disaggregated, fine to coarse grained, quartzose, fractured and broken angular grains indicate common quartz overgrowths. Original grains rounded? SILTSTONE: Medium dark grey with carbonaceous to coaly flecks and fragments. Rare pyrite and glauconite.
2043	2046	70	20	10					SANDSTONE: Disaggregated, predominantly medium grained, sub-angular, quartzose. Original grains probably rounded prior to quartz overgrowths. SILTSTONE: Medium dark grey, greyish brown, firm, blocky. CLAYSTONE: Greyish brown, fissile, soft to firm. Trace glauconite nodules in dolomitic matrix. Rare pyrite.
2046	2049	70	20	10					as above
2049	2052	90	5	5					SANDSTONE: Disaggregated, predominantly medium grained as above. Trace calcareous cement. SILTSTONE: as above CLAYSTONE: as above.
2052	2055	100							SANDSTONE: Fine to medium grained, well sorted, quartzose. Mostly disaggregated, but firm aggregates with calcareous cement more common. Trace siltstone and claystone as above.
2055	2058	100							as above
2058	2061	80	10	10				P	SANDSTONE: Partially disaggregated, fine to medium grained, well sorted, sub-angular to sub-rounded, firm to hard, calcareous cement, poor visual porosity. SILTSTONE: As above. CLAYSTONE: As above. Trace pinprick bright yellow fluorescence in siltstone?? Slow blooming cut. Crush cut. Bright yellow residual ring.
2061	2064	80	10	10					as above
2064	2067	80	20					F	SANDSTONE: Partially disaggregated, predominantly fine to medium grained, occasionally coarse grained, well sorted, angular to sub-angular, quartzose, firm to hard, calcareous cement in part. Quartz crystals indicate some vuggy porosity. Trace pyrite cement, trace mica. SILTSTONE: Medium to dark grey, brownish grey, firm to hard, grading to very fine sandstone. Trace claystone, light greyish brown, firm to hard, fissile. Trace coaly fragments. Trace ferruginous material with glauconitic nodules (cavings from Pebble Point?).
2067	2070	80	20						as above
2070	2073	80	20						as above
2073	2076	60	40						SANDSTONE: as above SILTSTONE: as above Trace claystone as above.
2076	2079	60	40						as above

2079	2082	40	50	10					SANDSTONE: Predominantly fine, occasionally medium, rarely coarse grained, well sorted, originally rounded grains now fractured and broken indicating grain boundary sutures and quartz overgrowths. Coarser sandstone disaggregated. Common fine grained, calcite cemented aggregates, firm, moderate visible porosity. SILTSTONE: as above. Claystone: as above.
2082	2085	20	80						SILTSTONE: Predominantly greyish black, some dark brownish grey, firm, arenaceous in part. SANDSTONE: Predominantly very fine to fine grained, as above.
2085	2088	20	80						as above
2088	2091	20	80						as above
2091	2094		100						SILTSTONE: Greyish black, firm, arenaceous in part, trace glauconite. Trace light greyish brown dolomite with glauconite pellets.
2094	2097		100						SILTSTONE: Very dark grey to black, very finely sandy in part grades to silty sandstone and sandy silty claystone, very finely dispersed carbonaceous material, micro? fine trace pyrite, micro ? black iron sulfide.
2097	2100	60	40						
2100	2103	60		40				P	SANDSTONE: clear, grey, white, firm to medium grain, well sorted, predominantly loose. Trace white clay adhering to matrix, good trace glauconite, silty matrix in part. Visible porosity poor. No show.
2103	2106	70		30					SANDSTONE: ? Silty clay caving, fine to coarse, predominantly well sorted, subangular to subrounded, clear to trace clay matrix, occasional aggregates with occasional dense siliceous clay cement, glauconite, feldspar. CLAYSTONE 30%: carbonaceous, very dark brown.
2106	2109	80		20					SANDSTONE: Very fine to coarse, poorly sorted, loose, predominantly clean, trace silica buff clay matrix, trace silica cement and clay matrix, trace glauconite. CLAYSTONE: Silty claystone, dark grey to dark green brown, hard, fissile.
2109	2112	100						G	SANDSTONE: Pale green, very fine to coarse, poorly sorted, quartz, clear, yellow, white, stained very pale green, angular to sub rounded, predominantly clear, trace silica cement, glauconite clay washing out ? Visible porosity good.
2112	2115	100						G	SANDSTONE: Very pale green, very fine to coarse, disaggregated, quartz, clear, green, white, occasionally yellow, sub angular to round, loose, trace silica cement ? glauconite? chloritic clay matrix, visible porosity very good.
2115	2118	100						G	SANDSTONE: as above, sub rounded, very fine to coarse, disaggregated predominantly clear, trace chloritic matrix, in part yellow grey matrix, visible porosity good. Trace silty claystone, dark brown, hard, sub fissile.
2118	2121	100							SANDSTONE: as above, very fine to medium occasionally coarse, well sorted. Siltstone very dark brown, firm to hard.
2121	2124	90		10					SANDSTONE: 90% Very pale green, becoming white, quartz grains, clear, white, yellow, pink, subangular to sub rounded, trace quartz cement, trace clay matrix, visible porosity fair. SILTY CLAYSTONE: as above (ie at 2097) occasional very dark brown siltstone.

2124	2127	95		5					SANDSTONE: as above, very fine to coarse, predominantly fine, occasional very fine aggregates with carbonaceous silty, mica matrix, trace feldspar, trace glauconitic mudstone, black. SILTY CLAYSTONE: trace to 5%, dark green brown, fissile, trace pyrite nodules, trace green ?chloritic chunks.
2127	2130	70	30						SANDSTONE: clear, white, yellow, pink, pale green, fine to coarse, moderately sorted, angular, occasional very coarse, very irregular grains with brown matrix adhering, occasional silty aggregates. SILTSTONE: laminated mudstone and siltstone.
2130	2133	100							SANDSTONE: Pale green, fine to medium grained, quartz, clear, pale green, yellow, trace mica.
2133	2136	90		10					SANDSTONE: as above, fine to coarse, poorly sorted, angular, pale grey clay adhering, MUDSTONE 10%: glauconitic in part with coarse, irregular pellets washing out, rare very coarse, very irregular quartz grains, rare pyrite, fossils? crinoid stem?
2136	2139	90		10					SANDSTONE: as above. SILTY CLAYSTONE: 10% as above, fossils as above, glauconitic in part.
2139	2142	80		20					SANDSTONE: as above predominantly clear. SILTY CLAYSTONE: as above, very dark grey brown, sub platy to sub fissile.
2142	2145	80		20					SANDSTONE: as above, very slightly yellow, trace blue-green ?chlorite, SILTY CLAYSTONE becoming smooth, occasional medium brown, very hard.
2145	2148	90		10					SANDSTONE: as above. chloritic cement on grains with colour as above, fine to coarse. SILTY CLAYSTONE: dark, hard to friable, glauconitic in part, less irregular grains.
2148	2151	100							SANDSTONE: as above, predominantly clear, pale green quartz, occasionally pink, loose, angular, siliceous.
2151	2154	90		10					SANDSTONE: as above, well sorted, clear yellow, trace pyrite, chloritic in places. SILTY CLAYSTONE: very dark green, fissile, occasional irregular lenses of coarse glauconitic, firm to hard, micromicaceous.
2154	2157	100							SANDSTONE: as above, loose, angular to sub-rounded grains with chloritic matrix.
2157	2160	100							SANDSTONE: as above chloritic matrix becoming more predominant. Trace silty claystone.
2160	2163	100							SANDSTONE: as above, well sorted, fine to medium, occasional well-rounded predominantly angular to sub-rounded, chloritic matrix.
2163	2166	100							SANDSTONE: very well sorted, chloritic as above.
2166	2169	100							SANDSTONE: trace red lithics, yellow etc as above, trace siltstone.
2169	2172	100							SANDSTONE: as above, firm, colour as above, heavy trace chlorite alteration, trace siltstone medium grey brown, speckled, sandy lithics.
2172	2175	100							SANDSTONE: as above. Trace to 5% silty claystone as above, non glauconitic, trace medium grey brow, splintery.
2175	2178	100							SANDSTONE: as above, predominantly clean, high sphericity, trace green chlorite.
2178	2181	100						G	SANDSTONE: as above becoming fine to coarse, moderately sorted, clear, yellow pale green, angular to sub-rounded. Visible porosity good.
2181	2184	60		40					SANDSTONE 60% as above becoming fine grained, well sorted. SILTY CLAYSTONE 40%.

2184	2187	95	5					G	SANDSTONE: Predominantly disaggregated, predominantly medium grained, occasionally coarse, occasional fine grained, friable aggregates, well sorted, original grains rounded, now fractured and broken due to grain sutures, quartz overgrowths. Good inferred porosity. Trace pyrite cement. Trace light greenish grey chloritic clay. Non calcareous. SILTSTONE: Greyish brown with dark green glauconite pellets (cavings?).
2187	2190	95	5						as above
2190	2193	20	80						SILTSTONE: Brownish black, greyish black, oxidised and ferruginous along some partings, soft, clayey in part. SANDSTONE: As above.
2193	2196	100							SANDSTONE: Disaggregated, predominantly medium grained, very well sorted. Trace siltstone as above. Rare coaly fragments.
2196	2199	100							as above
2199	2202	100							as above
2202	2205	90	10						SANDSTONE: Disaggregated, predominantly medium grained, very well sorted, quartzose. Occasional coarse grains, occasional fine grained aggregates. Grains fractured and broken with evidence of original rounding. Rare rounded black and brownish orange lithics. Trace light greenish grey chloritic clay clinging to grains in part. Non calcareous. SILTSTONE: As above. Pinprick bright yellow fluorescence. Brownish orange resinous material in siltstone fragment.
2205	2208	90	10						as above
2208	2211	90	10						as above
2211	2214	90	10						as above
2214	2217	80	20					G	SANDSTONE: Fine to medium grained, well sorted, quartzose. Common aggregates fine grained sandstone, friable, no visible clay matrix, good inferred porosity. Trace coarse, rounded grains of quartz and lithics (black siltstone etc). SILTSTONE: as above.
2217	2220	30		70					SILTY CLAYSTONE: Greyish brown, greyish black, soft, washing out of sample. SANDSTONE: Fine to medium grained, occasional coarse grains. Common fine grained aggregates with minor calcareous cement. Trace chloritic clay clinging to coarser grains. Common coarse grained, rounded black lithics.
2220	2223	30		70					as above
2223	2226	70	30						SANDSTONE: Predominantly disaggregated, predominantly medium grained, well sorted, quartzose. Trace greenish grey chloritic clay clinging to coarser grains. Trace pyrite. SILTSTONE: Greyish brown, dark grey with very finely dispersed carbonaceous material. Soft and clayey in part to firm.
2226	2229	70	30						as above
2229	2232	80	20						SANDSTONE: Disaggregated, medium to coarse grained, well sorted, quartzose. Trace greenish grey chloritic clay matrix. Original grains rounded. SILTSTONE: Greyish brown and grey with flecks, laminations and fragments of carbonaceous to coaly material. Possibly sericitic (white flecks). Trace pyrite.

2232	2235	100							SANDSTONE: Medium to coarse grained, well sorted, originally rounded to well rounded, grains now fractured and broken (some well rounded grains preserved), trace rounded greenish grey lithics. Trace pyrite cement.
2235	2238	90	10						SANDSTONE: as above SILTSTONE: as above.
2238	2241	70	30						SANDSTONE: fine to medium grained, becoming finer grained with depth, common fine grained, well sorted, quartzose aggregates, firm to friable, carbonaceous fragments in part. Non calcareous. Grading to SILTSTONE: As above. Clay washing out of sample?
2241	2244	70	30						as above
2244	2247	70	30						as above
2247	2250		100						SILTSTONE: Black, greyish black, dark grey, firm to hard with dispersed carbonaceous flecks and fragments, grading to very fine sandstone. Common lenses of white, very fine grained quartzose sandstone.
2250	2253	90	10						SANDSTONE: Disaggregated, medium to coarse grained, occasionally very coarse grained, well sorted, quartzose, grains originally well rounded. Trace pyrite cement. Bulk washed sample in sieve has faint greenish tinge, not as obvious as samples at top of sandy interval. Very rare greenish grey clay adhering to grains. Rare orange, light greenish grey and black cherty lithics. Possible broken fragments of reworked volcaniclastics? SILTSTONE: Medium grey, greyish brown, common carbonaceous and coaly flecks and fragments, firm to hard, grading to very fine sandstone. Possibly sericitic in part.
2253	2256	90	10						as above
2256	2259	90	10						as above
2259	2262	90	10						as above
2262	2265	100							SANDSTONE: Disaggregated, predominantly medium grained, occasionally coarse grained, well sorted, quartzose. Coarser grains originally rounded, grains now fractured and broken. Rare orange brown and greenish grey cherty lithics, also greenish grey schist. Rare fossil fragments (bryozoan??). Trace siltstone as above. Trace pyrite.
2265	2268	100							SANDSTONE: as above
2268	2271	100							SANDSTONE: white to pale grey, very pale greyish green as above, trace white & chloritic clay adhering to grains.
2271	2274	90	10						SANDSTONE: as above, very fine to medium, well sorted, but with occasionally coarse grains, quartz overgrowths. SILTY CLAYSTONE: medium greyish brown firm to hard, grades to SILTSTONE.
2274	2277	100							SANDSTONE: as above medium grained, well sorted, trace Forams, rare aggregates with common green lithic grains altered to chlorite, and very coarse irregular quartz grains in silicified silty matrix.
2277	2280	100							SANDSTONE: as above medium to coarse as above well sorted, predominantly clean.
2280	2283	100							SST as above clear, translucent, slightly trace clay.
2283	2286	100							SANDSTONE: as above occasional aggregates with chloritic liths, trace fossil fragment.
2286	2289	100							SANDSTONE: as above occasional aggregates with chloritic liths, trace fossil fragment.

2289	2292	60	40						SANDSTONE: as above, occasionally densely cemented with pyrite, SILTSTONE: dark grey, to greyish brown, speckled, finely sandy, carbonaceous, feldspathic, grades to very fine sandstone, micaceous.
2292	2295	30	70						SANDSTONE: becoming very fine to medium grained, sucrosic in part, silty, trace carbonaceous material, grades to SILTSTONE: as above.
2295	2298	100						F	SANDSTONE: colours as above, medium grained very well sorted, grey and chloritic clay washing out.
2298	2301								SANDSTONE: as above becoming fine to medium occasionally coarse, well sorted.
2301	2304	60	40						SILTSTONE as above, grades to SANDSTONE: poorly sorted, very fine, silty.
2304	2307	40	50	10					SILTSTONE: light grey to dark grey, greyish brown, lighter lithology is sandy, and grades to very fine sandstone, interlaminated with dark lithology, carbonaceous grades to silty claystone.
2307	2310	100							SANDSTONE: Disaggregated, medium to coarse grained, well sorted, quartzose with rare lithic grains. Grains fractured and broken, some larger grains show original rounding. Trace pyrite cement. Non-calcareous. Trace siltstone: brownish black, greyish black, oxidised/ferruginised partings in part, firm to hard, grading to very fine sandstone.
2310	2313	100							As above. Rare coaly fragments.
2313	2316	100							90% SANDSTONE: as above. 10% SANDSTONE: Very fine to fine grained, well sorted, quartzose aggregates, firm to friable. Trace siltstone, as above.
2316	2319	100							70% SANDSTONE: Disaggregated, medium to coarse grained as above. 30%SANDSTONE: Very fine to fine grained aggregates as above. Trace siltstone as above. Rare bright yellow pinprick fluorescence associated with resinous material.
2319	2322	50	10	40					40%SANDSTONE: Very fine to fine grained, well sorted quartzose aggregates, friable, rare carbonaceous and coaly flecks and fragments. 10% SANDSTONE: Disaggregated, medium to coarse grained as above. CLAY: Light grey, silty, washing out of sample. SILTSTONE: as above. Rare pinprick fluorescence as above.
2322	2325	50	10	40					as above
2325	2328	50	10	40					as above
2328	2331	50	10	40					as above
2331	2334	70	30						SANDSTONE: Predominantly fine grained, well sorted quartzose aggregates with carbonaceous and coaly flecks and fragments, non calcareous, friable, grading to very fine grained sandstone and SILTSTONE: Dark grey, dark brownish grey, firm, platey in part. Abundant clay washing out of sample. Rare bright yellow fluorescence associated with resinous clasts in very fine grained sandstone.
2334	2337								as above
2337	2340	70	30						SANDSTONE: Very fine to fine grained, predominantly fine grained, well sorted, quartzose, friable to firm, occasional coaly flecks and fragments. Fair inferred porosity as above. SILTSTONE: as above.
2340	2343	70	30						SANDSTONE: light grey, speckled, very fine to fine, silty, moderately sorted, interlaminated with 30% siltstone, light to dark grey, trace carbonaceous material and micas, occasional loose angular, elongate quartz grains, very coarse to granular.

2343	2346	80	20						SANDSTONE: as above, predominantly silty grades to siltstone 20%, poor to well sorted, friable aggregates with carbonaceous material, feldspar, mica. Trace claystone, medium brown, fissile to sub-platy, smooth.
2346	2349	50	50						SANDSTONE: very light grey to grey, very fine to silty, moderately to poorly sorted, firm to friable aggregates with silty matrix and silica cement, feldspar, grades to and inter-laminated with SILTSTONE: medium grey brown, carbonaceous, micaceous.
2349	2352		50	50					SILTSTONE: medium dark grey, homogenous, quartzose, carbonaceous fragments and lithic grains, in dark clay matrix, firm to friable, very finely sandy in part, grades to SILTY CLAYSTONE in part sub-fissile.
2352	2355		50	50					SILTSTONE 50% medium dark to olive grey CLAYSTONE 50%. Trace sandstone as loose quartz grains ? stringers and friable aggregates of very fine sandstone.
2355	2358		30	70					CLAYSTONE 70% SILTSTONE 30%.
2358	2361		20	80					SILTY CLAYSTONE: med to olive grey to olive black, trace fossil wood. 5% quartz grains as stringers. SILTSTONE: as above.
2361	2364	60		40					SANDSTONE: grey, very fine to fine grained, predominantly aggregates with silty clay matrix, common lithic grains. SILTY CLAYSTONE: as above.
2364	2367	30	30	40					SANDSTONE: very dark green grey, very argillaceous, grades to siltstone and silty claystone. Trace glauconite as even pellets.
2367	2370	10	50	40					SILTY CLAYSTONE: very dark grey to olive black, mica, black glauconite in part, trace fossil wood. SANDSTONE: as above, loose, very fine to fine grained.
2370	2373	40	30	30				P	SANDSTONE: white, very fine to fine grained, occasionally loose, coarse and very coarse grains, moderately sorted, slightly silty matrix, silica cement, visible porosity poor to fair. SILTY CLAYSTONE: 30%. SILTSTONE: 30% glauconitic in part.
2373	2376	80	20						SANDSTONE: very fine to fine grained, silty, carbonaceous, feldspar, micaceous, glauconitic.
2376	2379			100					SILTY CLAYSTONE: olive black, occasionally very finely sandy, carbonaceous, homogenous, hard to brittle, sub-fissile.
2379	2382	50	50						SILTSTONE: as above, grades to sandstone.
2382	2385	60	40						40% SANDSTONE: disaggregated medium to coarse grained, quartzose. Coarser grains show evidence of rounding. Grains now fractured and broken. 20% SANDSTONE: Fine grained, well sorted, quartzose aggregates with carbonaceous to coaly flecks, fragments and laminae. Firm to friable, some clay matrix. (Friable when wet, firm when dry thus clay matrix).40%SILTSTONE: Medium dark grey, greyish black, brownish grey firm to hard grading to very fine sandstone.
2385	2388	100							SANDSTONE: disaggregated medium to coarse grained, well sorted, quartzose, predominantly broken grains. Some evidence of original rounding. Trace white clay matrix clinging to grains. Trace pyrite. Trace siltstone as above.
2388	2391	100							SANDSTONE: Predominantly medium grained as above. Rare green lithics. Trace siltstone as above. Clay matrix washing out of sample?
2391	2394	100							as above

2394	2397	90	10						90% SANDSTONE: disaggregated predominantly medium grained as above. Rare lithics. 10% SANDSTONE: Very fine to fine grained aggregates as above. 10% SILTSTONE: as above. Trace pyrite replacing carbonaceous material.
2397	2400	90	10						as above
2400	2403	90	10						as above
2403	2406	90	10						SANDSTONE: Predominantly disaggregated fine to medium grained, well sorted. Occasional aggregates firm to hard indicating some silica cement. Clay matrix washing out of sample? SILTSTONE as above.
2406	2409	90	10						as above
2409	2412	50	50						30% SANDSTONE: Predominantly disaggregated, fine to medium grained, well sorted. Grains broken & fractured. Trace medium to coarse grained rounded lithic grains (quartzite & black/green grey lithics.) 20% SANDSTONE: Very fine to fine grained quartzose aggregates. Firm. Some clay matrix and silica cement. Trace pyrite cement. Grading to SILTSTONE as above. Trace pyrite replacing carbonaceous material.
2412	2415	50	50						as above
2415	2418	90	10					P	80% SANDSTONE: Predominantly disaggregated predominantly medium grained, quartzose with common green & black rounded coarse lithic grains. Grains predominantly broken. Some evidence of original rounding. 10% SANDSTONE. Aggregates. Fine to medium grained, med sorted, quartzose, some clay matrix & silica cement, firm. SILTSTONE as above. Poor to fair inferred porosity.
2418	2421	90	10						as above
2421	2424	90	10						as above
2424	2427	50	50						SILTSTONE: Brownish grey. Medium to dark grey, clayey ip micromicaceous, firm to hard, platey in part. Common oxidised/ ferruginised partings. SANDSTONE: Fine to medium grained, predominantly disaggregated. Occasional fine to medium grained quartzose aggregates, firm to hard, some clay matrix & silica cement. Fair inferred porosity. Occasional very fine grained sandstone aggregates. Firm to hard. Trace pyrite cement.
2427	2430	50	50						as above
2430	2433	50	50						SILTSTONE: as above. SANDSTONE: Predominantly fine to medium grained, aggregates more common, well sorted, sucrosic, friable when wet, firm to hard when dry thus clay matrix.
2433	2436		100						SILTSTONE: Brownish grey, dark grey, common carbonaceous & coaly flecks and fragments, soft when wet, firm, blocky when dry. Grading to very fine sandstone in part. Trace sandstone very fine to fine grained, well sorted, quartzose, firm, some clay matrix. Trace calcareous cement. Trace pyrite cement.
2436	2439		100						as above
2439	2442		100						SILTSTONE: Clayey siltstone grading to silty claystone. Dark grey, brownish black. Soft to firm when wet, firm to hard when dry thus clayey. Siltier frags blocky, clayey frags platey. Trace very fine sandstone lenses. Carbonaceous & coaly frags rare to absent.
2442	2445		100						as above

2445	2448		100						Clayey siltstone grading to silty claystone as above. Sandstone lenses absent.
2448	2451		100						as above
2451	2454		100						as above
2454	2457		100						as above
2457	2460		100						as above
2460	2463		100						as above
2463	2466		100						as above
2466	2469		100						as above
2469	2472	60	40						SANDSTONE: Disaggregated predominantly medium grained occasionally coarse, quartzose, grains predominantly broken. Coarser grains show evidence of rounding (very well rounded, equant). SILTSTONE: Brownish grey, dark grey, clayey in part, tuffaceous appearance due to finely disseminated carbonaceous matter& white sericitic flecks. Trace rounded dark green glauconite inclusions (glauconite pellets). No fluorescence.
2472	2475	80	20						SANDSTONE as above. Rare aggregates with light brownish grey dolomitic cement. Trace very fine to fine grained, well sorted, quartzose aggregates with calcareous cement. SILTSTONE as above.
2475	2478	20	80						SILTSTONE: Greyish black, brownish black, firm to hard, blocky, clayey in part grading to silty claystone. Rare carbonaceous fragments. Trace pyrite. Some siltstone has speckled tuffaceous appearance with rectangular plagioclase crystals. SANDSTONE: Fine to medium grained, predominantly disaggregated, quartzose, broken subangular grains, coarser grains show evidence of original rounding. Common firm to hard aggregates cemented by light greyish brown dolomite, other aggregates clay cemented. Some fragments reworked sandstone? (possibly rounded fragment tightly cemented sandstone).
2478	2481	90	10						SANDSTONE: Very light grey, fine to medium grained, predominantly fine grained, partially disaggregated. Fine grained aggregates, well sorted, quartzose, firm with clay matrix and calcareous cement. Occasional coarse quartz grains, well rounded. Poor to fair visible porosity. Fair visible intergranular porosity in some fine grained aggregates. SILTSTONE as above.
2481	2484	90	10						as above
2484	2487	90	10						as above
2487	2490	80	20						SANDSTONE: Clear, medium grained, as loose grains, fine to coarse, quartzose, subangular to sub rounded, viscosity good. SILTSTONE as above, hard.
2490	2493								as above
2493	2496	50	50						as above
2496	2499	80	10	10					SANDSTONE: light grey, very fine to medium grained, well sorted. SILTSTONE: 10% silty, grey grading to silty claystone 10%.
2499	2502	80	20						SANDSTONE: as above, very light grey, very fine to silty firm silicon aggregates, trace feldspar, trace pyrite, interlaminated with SILTSTONE 20% very dark grey to dark olive grey grading to silty claystone.

2502	2505	60	40						SANDSTONE: very light grey, fine grained, well sorted quartzose aggregates, friable to firm, white clay matrix occasional light greyish brown dolomite cement. Trace carbonaceous and coaly flecks in part, trace lithic grains, trace pyrite cement. SILTSTONE: Dark brownish grey, dark grey, firm to hard with very micaceous laminae, occasional carbonaceous flecks, occasional glauconite pellets grading to very fine sandstone. Trace broken quartz grains, coarse to very coarse.
2505	2508	60	40						as above
2508	2511		100						SILTSTONE: Brownish black, greyish black, firm to hard, blocky, common carbonaceous woody/leafy material grading to very fine sandstone. Slightly dolomitic (rock flour reacts to HCl). Trace sandstone, very light grey, fine grained, quartzose, well cemented lenses.
2511	2514		100						SILTSTONE: Dark grey, clayey in part, grading to silty claystone, soft-firm, grading to silty claystone, rare carbonaceous flecks, occasional micaceous laminae. Trace sandstone as above.
2514	2517		100						as above
2517	2520	10	90						as above
2520	2523	100							SANDSTONE: Disaggregated, medium to coarse grained, quartzose, grains broken, some grains show evidence of original rounding (well rounded, equant). Trace siltstone as above with glauconitic pellets in part.
2523	2526	80	20						as above
2526	2529	100							SANDSTONE: Disaggregated, white, medium to very coarse grained, some grains show evidence of original rounding (well rounded, equant), predominantly broken grains. Clean sample (no suggestion of clay matrix washing out at shakers). Rare lithic grains. Trace siltstone.
2529	2532								as above
2532	2535								as above
2535	2538	80	20						SANDSTONE 60%: as above. SANDSTONE 20%: Very fine to fine grained aggregates, quartzose, firm to hard, silica cemented. SILTSTONE 20% as above.
2538	2541	80	20						as above
2541	2543	90	10						SANDSTONE: Predominantly very fine grained grading to siltstone. Medium grey, hard, blocky. SILTSTONE: as above. Trace medium to coarse quartz sand grains as above. TD 2543m.