



CENTRAL PETROLEUM LTD CUTTINGS DESCRIPTIONS

Well: CBM 93-01

DEPTH		%	Interp.	F%
13 - 15m	Sandstone, light yellow and orange grey, clear to yellow and orange red stained quartz grains, trace chert, unconsolidated, fine to very coarse, predominantly coarse, subangular to well rounded, trace Sandstone, white, moderately hard, very fine to medium, with white Silcrete matrix, trace coarser grains show white matrix adhering to grains	Ss 100%		
15 - 20m	Sandstone, ala	Ss 100%		
20 - 30m	Sandstone, a/a, trace white Silcrete	Ss 100%		
30 - 40m	Sandstone, a/a, "Silcrete", clay and silt sized particles, white off white, moderately hard to hard, angular cuttings, slightly calcareous, trace sandy, very fine to fine	Ss 60% Silcrete 40%		
40 - 50m	Silcrete a/a to 45m, From 45m, Claystone, medium to dark grey, soft to firm, very carbonaceous, with common black specks of lignite and brown carbonaceous material, silty, green tinged fraction is present in particles within the Claystone, slightly micaceous, non calcareous, grades to argillaceous Siltstone.	Silcrete 60% Clyst 10% Ss 30%	Silcrete 50% Clyst 50%	
50 - 60m	Claystone a/a	Clyst 100%		
60 - 70m	Claystone a/a Large soft to firm cuttings 1-2cm are present, over the shaker but are soft	Clyst 100%		
70 - 80m	Claystone, generally a/a generally dark grey	Clyst 100%		
80 - 90m	Claystone a/a	Clyst 100%		
90 - 100m	Claystone a/a	Clyst 100%		
100 -110m	Claystone a/a, abundant large soft to firm cuttings/cavings are present over the shaker, occasionally up to 2cm plus. Trace of cavings are tan coloured Claystone, amorphous (tuff?)	Clyst 100%		
110 -120m	Claystone, dark grey, soft to firm, blocky, subfissile in part, black specks of lignite decline to trace, less silty, rarely micaceous	Clyst 100%		
120 -130m	Claystone a/a	Clyst 100%		
130 -150m	Claystone a/a	Clyst 100%		
150 -160m	Claystone a/a	Clyst 100%		
160 -180m	Sandstone, medium grey, soft friable, rarely moderately hard, very fine to fine, subangular to angular, common black rounded grains, in part dark grey green rounded grains, likely glauconite, rare black lignite fragments, clay matrix is present generally grey, green grey in part, rare brown mica, slightly calcareous, rare calcite fragments, tight, grading to Siltstone. Claystone, dark grey, soft to firm, blocky, subfissile in part, very slightly calcareous, rare to good trace specks of black carbonaceous material	Ss 40% Sltst 20% Clyst 40%		
180 -190m	Claystone a/a, Abundant cavings, moderately heavy load on shale shakers	Clyst 80% Sltst 20%		
190 -210m	Claystone a/a	Clyst 100%		
200 - 210m	Claystone a/a	Clyst 100%		
210 - 220m	Claystone, dark grey, soft to firm, blocky rarely subfissile poor trace black carbonaceous grains/ specks, very slightly calcareous	Clyst 100%		
220 - 230m	Claystone a/a Abundant Cavings, declining towards 280m casing point	Clyst 100%		
230 - 250m	Claystone a/a	Clyst 100%		
250 - 260m	Claystone, dark grey, soft to firm, blocky, rarely subfissile, silty in part, trace carbonaceous material and black lignite grains.	Clyst 100%		
270 - 280m	Claystone a/a, Sandstone, medium to dark grey, friable to firm, very fine quartz, with dull green grey grains also present, argillaceous in part, tight	Clyst 80% Ss 20%		
280 - 290m	Claystone, medium dark grey, soft to firm, trace very fine glauconite grains pale green, trace black carbonaceous specks generally silt to very fine size, slightly micaceous, trace to 5% loose clear sand grains, fine, subangular to angular, rare fragments Inoceramus "prisms", thin elongate, poor trace pyrite, non calcareous except for inoceramus fragments. Tentative top Oodnadatta Formation 285m.	Clyst 100%		
290-300m	Claystone a/a no sand	Clyst 100%		
300- 305m	a/a pyrite not seen, glauconite v rare	Clyst 100%		
305 -310m	Claystone a/a	Clyst 100%		
310 -315m	Claystone a/a	Clyst 100%		
315 -320m	Claystone a/a	Clyst 100%		
320 -325m	Claystone a/a	Clyst 100%		



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325 - 330m	Claystone, medium grey to medium dark grey, firm, slight trace black silt sized lignite specks, trace Inoceramus Prisms, non calcareous to very slightly calcareous clays, slightly to moderately silty	Clyst 100%		
330 - 340m	Claystone a/a	Clyst 100%		
340 - 350m	Claystone a/a, with 5% white soft calcite, layered shell fragments, Inoceramus shell fragments	Clyst 100%		
350 - 360m	A/a rare marcasite ball (white pyrite), moderately silty	Clyst 100%		
360 - 370m	Claystone, dark grey, firm, Inoceramus fragments rare, rare black carbonaceous specks, silt to very fine, non calcareous, slightly to moderately silty	Clyst 100%		
370 - 380m	Claystone a/a	Clyst 100%		
390 - 400m	Claystone a/a	Clyst 100%		
400 - 410m	Claystone as above with 35% of sample, Claystone/Greensand, abundant black glauconite grains, predominantly fine sized grains, in a dark clay matrix, non calcareous, medium white grey trace, highly calcareous.	Claystone 70% Ss 30%		
410 - 420m	Claystone, medium dark grey, slight green tinge soft to firm, with common, black to dull green glauconite grains, very fine grained, calcareous, with very fine quartz sand in part grading to Sandstone, also very silty grading to Siltstone, trace pyrite	Clyst 70% Siltst 20% Ss 10%		
420 - 430m	Claystone a/a, glauconite percentage declines	Clyst 100%		
430 - 440m	Claystone a/a	Clyst 100%		
440 - 450m	Claystone a/a, glauconite content declines to trace	Clyst 100%		
460 - 470m	Claystone a/a, Trace yellow and orange shell fragments	Clyst 100%		
470 - 480m	Claystone a/a, Trace very fine glauconitic sandstone, trace fossil fragments as above	Clyst 100%		
480 - 490m	Claystone as above, rare glauconite, v rare medium grains green black, two or three cuttings with aggregates of these, no fossil fragments	Clyst 100%		
490 - 495m	Claystone as above, glauconite rare	Clyst 100%		
495- 500m	Claystone as above	Clyst 100%		
502m grab	Sandstone, light grey, unconsolidated, fine to very coarse, predominantly very coarse, well sorted, subangular to well rounded, slight trace white clay matrix on a few grains, v rare green stained quartz grain, excellent inferred porosity	Clyst 100%		Nil
503m grab	Ss a/a	Clyst 100%		Nil
505m	Sandstone 30%, generally as above, fine to very coarse, predominantly coarse balance up hole cuttings (claystone) derrick man blasted out possum belly	Poor Sample	Ss 100	Nil
509m	Sandstone, light grey, unconsolidated, fine to coarse, predominantly fine, moderately well sorted, angular to well rounded, excellent inferred porosity	Ss 100%		Nil
510m	Claystone, medium grey to medium dark grey, firm, non calcareous Sandstone, as above	Clyst 80% Ss 20%		Nil
510-515m	Sandstone, very light grey, unconsolidated, fine to very coarse, predominantly fine to medium, poorly sorted, angular to well rounded, predominantly clear quartz, trace pale pink, dull yellow, orange grains, excellent inferred porosity, Claystone a/a	Ss 80% Clyst 20%		Nil
515 - 520m	Sandstone, very light grey, unconsolidated, very rare cemented very fine aggregates with white clay matrix, very fine to coarse, predominantly medium, moderately well sorted, angular to subangular, rarely rounded, trace coarse muscovite mica flakes. Claystone as above, Trace Coal, chocolate brown, earthy, firm	Ss 90% Clyst 10%		Nil
520- 525m	Sandstone, Claystone a/a, Trace - 5% Coal a/a	Ss 65% Clyst 30% Coal 5%		Nil
525 - 530m	As above	Ss 80% Clyst 20%		
530 - 535m	Sandstone, very light grey, unconsolidated, fine to very coarse, predominantly coarse, poorly sorted, subangular to angular, rarely rounded trace coarse muscovite mica flakes, grains mainly clear quartz, traces pink and yellow	Ss 100%		
535 - 540m	Sandstone a/a predominantly medium	Ss 100%		
540 - 545m	Sandstone a/a	Ss 100%		
545 - 550m	Sandstone a/a	Ss 100%		
550m - 555m	Sandstone, as above, predominantly coarse	Ss 100%		
555 - 560m	Sandstone, as above, predominantly very coarse	Ss 100%		
560 - 570m	Sandstone a/a	Ss 100%		
570 - 580m	Sandstone a/a predominantly medium	Ss 100%		



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580 – 585m	Sandstone, as above, predominantly coarse with 10% Sandstone, off white, slightly yellow, friable aggregates, fine, kaolin matrix, Claystone, dark grey, firm, trace glauconite, Cavings	Ss 90% Clyst 10%	Ss 100%	
585 – 590m	Sandstone, unconsolidated as above, predominantly very coarse	Ss 100%		
590 – 595m	Sandstone as above	Ss 100%		
595 – 600m	Sandstone very coarse as above, trace coal, detrital, intermingled with white clay	Ss 100%		
600 – 605m	Sandstone as above, poorly sorted becoming predominantly medium. Claystone, medium olive grey, soft soluble, slightly carbonaceous	Ss 80% Clyst 20%		
605 - 610m	Sandstone, light grey, unconsolidated, fine to coarse, predominantly medium, moderately well sorted, subangular to angular, mica flakes rare	Ss 100%		
610 – 615m	Sandstone, fine to very coarse, poorly sorted as above, Claystone trace as above. Coal trace, black, moderately hard, laminated in part, with copper brown carbonaceous material	Ss 100%		
615 – 620m	Sandstone as above, Claystone, medium olive, soft soluble, slightly carbonaceous	Ss 95% Clyst 5% Tr Coal		
620 – 625m	Sandstone, light grey, unconsolidated, fine to coarse, predominantly medium, moderately well sorted, sub angular to angular, trace coarse muscovite mica flakes (reappearance)	Ss 100%		
625 – 630m	Sandstone as above, Claystone, soft, light olive grey, medium dark grey, firm. Trace coal fragments, associated with very fine friable sandstone and white Kaolin matrix	Ss 80% Clyst 20%		
630 – 640m	Sandstone as above, Coal, dark brown earthy, black, dull to subvitreous, firm to moderately hard, woody texture in part	Ss 90% Coal 10%		
640 – 645m	Sandstone as above, trace Coal as above	Ss 100%		
645 – 650m	Sandstone as above	Ss 100%		
650 – 660m	Sandstone, very light grey, loose, fine to coarse, predominantly medium, well sorted, subangular to angular, trace brown earthy coal	Ss 100%		
660 – 665m	Sandstone generally a/a, fine to very coarse, poorly sorted	Ss 100%		
665 – 670m	Sandstone as above	Ss 100%		
670 – 675m	Sandstone as above, trace black coal, occasional coarse grain quartz, has black staining from coal	Ss 100%		
675 – 680m	Sandstone as above	Ss 100%		
680 – 685m	Sandstone as above	Ss 100%		
685 – 690m	Sandstone as above, unwashed sample indicates soft, very light grey Clay is present, soft, very slightly carbonaceous	Ss 80% Clyst 20%		
696 grab	Sandstone as above, unwashed sample very light grey clay, with dark grey Claystone grading to silty Sandstone in part	Ss 80% Clyst 20%		
695 – 700m	Sandstone as above, trace yellow stained grains, trace coal fragments	Ss 100%		
700 – 705m	Claystone, medium dark grey, soft, sticky, silty, carbonaceous. Coal, black soft to moderately hard, predominantly soft, occurs at the Top Permian unconformity directly below sandstone.	Clyst 50% Coal 20% Ss 30%		
705 – 710m	Sandstone, very light grey, pale yellow tinge, predominantly clear grains, yellow stained grains common loose, fine to medium, lesser coarse and very coarse, angular to subangular, broken grains are apparent, trace hard aggregates, siliceous cemented welded tight, trace soft white mineral (non calcareous) giving medium to bright white mineral fluorescence but no cut fluorescence, slight trace muscovite mica, in part as coarse multilayered fragments, trace brown biotite mica. Trace coal fragments	Ss 100% C tr		Tr Mineral Fluor.
710 – 715m	Sandstone, as above	Ss 100%		
715 – 720m	Sandstone, as above	Ss 100%		
720 – 724m Grab samples	Possibly 2m, 721 -723m Coal 722m, black, mostly dull, soft to moderately hard, woody material in part, rare slickenside surfaces, some possibly showing effects of fire contemporaneous with deposition, 723m as above, trace pyrite, trace white mineral on fracture surfaces, Coals give faint to moderate white very slow cut fluorescence. Claystone, dark grey, soft, soluble, appears to be present at base of interval	C 50% Ss 25% Clyst 25%		Faint slow cut fluor from Coals
720 - 725m	Sandstone, as above	Ss 100%		
725 – 730m	Sandstone, as above	Ss 100%		
730 – 735m	Sandstone, as above	Ss 100%		
735 – 740m	Sandstone, very light grey, loose, fine to very coarse, poorly sorted, sub angular to angular, micaceous as coarse white and brown flakes, trace grey pyrite, trace white silty matrix material partly adhering to grains, rare white grains with mineral fluorescence, no cut fluorescence	Ss 100%		
740- 743m	a/a	Ss 100%		



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743 – 746m	Sandstone, a/a with abundant remains of moths, Siltstone, white grey, moderately hard kaolinitic	Ss 100%		
746 - 749m	Sandstone as above, predominantly medium to coarse, Coal, black, moderately hard, irregular surfaces to cuttings, trace subvitreous partings	SS 80% C 20%		
749 - 752m	Sandstone as above	SS 95% C 5%		
752 – 755m	Sandstone as above	SS 95% C 5%		
755 – 760m	Coal: Black, mostly dull, rarely with enclosed silt sized grains, rare bright, conchoidal fracture, occasionally with woody texture. Grades to carbonaceous mudstone, black to brownish black, also with silt sized grains and woody plant fragments: Interpreted as 1m seam from 758m to 759m assessment made at shale shaker	C 60% Ss 40%	C 20% 758-759m From assessment @shakers	
760 – 765m	Coal, as above, interpreted as 1-2m seam about 762m, Claystone, base of interval appears to be, soft soluble, medium grey, clay on shaker screen, none in washed sample. Sandstone as above	C 60% Ss 40%	C 40% 761m -762m Ss 20% Clyst 40%	
765 – 770m	Sandstone, very light yellow grey, loose fine to very coarse, poorly sorted subangular to angular, trace white and brown mica, trace pink garnet, trace fragments kaolin	Ss 100%		
770 – 775m	Sandstone as above	Ss 100%		
775 - 780m	Sandstone as above	Ss 100%		
788m grab	Sandstone as above	Ss 100% Tr Coal		
785 - 790m	Sandstone as above	Ss 90% C 10%		
790 – 795m	Sandstone as above	Ss 100%		
795 – 800m	Coal see core descriptions	C 70% SS 30%		
800 – 805m	Coal, 55 : 45 / moderately bright : dull brownish coal	C 100%		
805 – 810m	Coal, as Gradual increase of dark grey soft Claystone noted in unwashed samples over shaker, very soluble	C 90% Clyst 10	Coal 60% Clyst 40%	
810 – 815m	Ss 90% fine – medium loose, grained, Coal 10% in washed sample, but main lithology coming over the shakers is Claystone, dark grey brown , soft soluble, carbonaceous, IS consistent with slow drilling	Ss 90% C 10%	Clyst 70% Ss 30%	
816m Grab from drill break	Drill break from 815m, very little clay, sand volume over the shakers increases Ss 95% fine grained, loose, well sorted, subangular – subrounded	Ss 100% C Tr%	Ss 100%	
815-820m	Sandstone, white grey, loose, fine to medium, moderate sorting, subangular to angular, trace white mica, quartz generally clear, white in part, occasional green tinge, white clay likely sandstone matrix is common in unwashed samples on shaker screen, Fluorescence, gold pipe dope; amber fragments with blue white fluorescence no cut fluorescence.	Ss 100%		
820 – 825m	Sandstone, as above	Ss 100%		
825 – 830m	Sandstone, abundant white clay, likely matrix of sandstone	Ss 100%		
830 – 835m		Ss 100%		
836m	Coal, black to brown, dull to bright, moderately hard to hard, bright coal has finely speckled reflective surfaces, woody fabric present that can be quite reflective, cleats appear to be uncommon, significant fractures are present as indicated by Cores, trace pyrite.	C 80% Ss 20%		
835 – 840m	Coal, dull brown black coal predominates	C 100%		
840 – 845m	Coal as above	C 100%		
845 – 850m	Coal as above	C 100%		
850 – 855m	Coal as above	C 100%		
855 – 860m	Sandstone, loose, fine to medium, moderately well sorted, subangular to angular, trace white mica	Ss 80% C 20%		
860 – 865m	Sandstone, becoming fine to coarse	Ss 100%		
865 – 870m	Sandstone as above.	Ss 100%		
870 – 875m	Coal 100% from 873m, generally as above predominantly, dull brown grey	Ss 60% C 40%		
875 – 880m	Coal as above	C100%		
880 – 885m	Coal as above	C 100%		
885 – 890m	Sandstone, loose, fine to medium, subangular to angular, trace white mica	Ss 70% C 30%		
890m grab	Coal as above			
890 – 895m	Sandstone as above	Ss 95% C 5%		



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895 – 900m	Sandstone, very pale yellowish grey, loose, fine , generally as above	Ss 100%		
900 - 905m	Sandstone as above	Ss 95% C 5%		
905 – 910m	Sandstone as above claystone dark grey soft, black in part soft soluble	Ss 95% C 5%	Soluble CLAYS	
910-915m	Coal, black, dull to moderately bright, moderately hard to hard, bright coal has finely speckled reflective surfaces, woody fabric present that can be quite reflective, occasional cleat break	C 100%	C drilling break 914- 917m	
915m – 920m	Sandstone, fine to medium, occasionally coarse	C 30 Ss70	Soluble CLAYS	
	921m POOH, drilling progress was difficult, erratic pump pressure. Bit had five angular pieces of hard indurated sandstone, between 1 and 2 cm size that probably blocked 5 of the 10 circulating ports. The sandstone is silica cemented, pyrite and chalcopryite cemented. The largest piece has one rounded surface. It is likely all pieces were from one piece of rock, the external appearance is not dissimilar to pebbles of minor pebble beds noted in some of the sandstone cores. However there is a trace of fine to medium coaly fragments, so like just hard Purni sand.			
920 – 925m	Sandstone, as 920m sample above	C 25% Ss 75%		
925 – 930m	Sandstone, very light grey, slight yellow tinge, fine to coarse, subangular to angular, rare well rounded grains, trace mica, commonly white clay adheres to individual grains, quartz grains are generally clear to white translucent, some yellow tinged, dull grey and very rarely pale pink or green. Tr Garnet.	Ss 100%		
930.5	Coal, cut fluorescence of coals shows slightly increasing intensity, still very slow cut but now has pale to moderate intensity compared to pale white cut uphole. Assessment made using a good pinch of bulk coal sample.	Ss 30 C70		
930 – 935m	Sandstone, as above	Ss 100%		
935 – 940m	Sandstone & Coal as above	Ss 70% C 25%		
944m	Drilling slow and difficult, bit clogging, erratic pump pressure, actual lithology difficult to assess, gas readings indicate some coal present, try coring.			
940 – 945m	Sandstone, fine to medium loose grains, Coal, speckley bright, lesser dull coal	Ss 60 C 40		
945 – 950m	Ss f to medium loose grains, Coal, speckley bright and dull coal	Ss 95 C 5		
950 – 955m	Ss, f to v c	Ss 95 C 5		
955 – 960m	Ss, f to v c	Ss 100%		
944m to 966m	Continuous Coring, Cores 20-25, 966m, (967.4m)			
965 -970m				
970 – 975m	Ss fine -medium			
978m grab	Coal	Coal 100%		
978 – 1007m	Coal 100%, continuous coring cores 26 to 33.	Coal 100%		
1007 – 1010m	Coal 100%	Coal 100%		
1010 – 1015m	Sandstone, light grey, loose, fine to medium, moderate sorting, subangular to angular, trace white mica, white clay matrix attached to grains	Ss 85% C 15%	Ss 60% C 40% Base Coal 1012m	
1015 – 1020m	Sandstone, as above	Ss 100%		
1020 – 1025m	Sandstone, as above	Ss 100%		
1025 – 1030m	Coal, dull, slightly brown black to black, grainy speckley reflective lustre in part, trace with bright cleat parting, trace pyrite Sandstone, as above	C 70% Ss 30%		
1030 – 1035m	As above	C 70% Ss 30%		
1035 – 1040m	Sandstone as above predominantly medium	Ss 100%		
1040 – 1045m	Sandstone, light grey, loose, fine to coarse grained, poor sorting, subangular to angular, slight trace pale green staining of quartz and matrix, rare pyrite, trace white & brown mica, trace silica cemented sandstone, tight hard cuttings, clear, white translucent, yellow grains rare pink, occasional grey, rare dull yellow mineral fluorescence, no cut; rare intense, moderately bright blue white fluorescence, no cut, fine particles, no cut, probable amber, these being background mineral fluorescence seen throughout Purni	Ss 100%		
1045 – 1050m	Coal, a/a with trace, highly lustrous, plant fibre, very slow cut fluorescence, moderately bright white, fluorescent residue, trace white gypsum flakes giving fluorescence, no cut	Coal 90% Ss 10%		
1050-1055m	Missing			



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1055 – 1060m	Sandstone, 15% of sand grains sample, shows, light brown residual oil staining, or possible carbonaceous staining, No cut, fine – coarse, gen a/a	Ss 75% C 25%		
1060 – 1065m	Sandstone, loose, coarse to very coarse, very rare rounded grains, quartz colours as above, trace elements as above, adhering white clay matrix, trace well cemented fine-medium aggregates, silica cemented	Ss 100%		
1065 – 1070m	Sandstone, as above, trace Claystone, light grey, with finely laminated carbonaceous material. Coal a/a, Clay, light grey, soft	Ss 95% C 5%	+Clyst	
1070 – 1075m	Sandstone coarse- very coarse as above			
1075 – 1080m	Siltstone, light grey, moderately hard, micaceous, with thin carbonaceous laminae, trace white clay matrix. Sandstone, white grey, loose, fine to medium, to coarse as minor part, common aggregates, very fine to fine, well cemented, silica cement, silt matrix in part, tight, trace white & brown mica Clay white and light grey, soft, soluble, common on shakers	Sltst 30% Ss 70%	+ Clyst	
1080 – 1085m	Sandstone, white grey a/a, Siltstone a/a	Ss 80% Sltst 20%	Minor grey clay	
1085 – 1090m	Sandstone, white grey gen as above, medium to coarse,	Ss 90% Sltst 10%		
1090 – 1095m	Typical Purni Sandstone as above, very fine to coarse, very fine to medium tight aggregates, Siltstone a/a, Coal	Ss 60% Sltst 20% Coal 20%		
1095 – 1100m	Sandstone, generally as above, predominantly fine to medium. Coal mostly dull and amorphous, sometimes dull and bright mixed on a micro scale – speckled or microlaminated. Occasional fragments with woody internal structure, occasional vitrinite. Accompanied by 30% medium brown carbonaceous mudstone, occasionally laminated	Coal 90% Ss 10%		
1100 – 1105m	As above	Sltst 45% Ss 45% Coal 10%		
1105-1110m	As above	Coal 70% Ss 30%		
1110 – 1115m	As above. Coal 80% dull, amorphous with weak reflection – not totally dull. 20% microlaminated as 1095 above. Rare vitrinite, occasional woody fragments and leaf impression, Siltstone,	Coal 80% Ss 20%		
1115 – 1120m	As above	Sltst 70% Coal 30%		
1120 – 1125m	Siltstone, light to medium grey, soft to moderately hard, very argillaceous, grading to very fine sandstone in part, slightly micaceous, white clay matrix on grains	Sltst 70% Coal 30%		
1125 – 1130m	Coal, mostly dull but with weak reflection, in part laminated. Common woody texture on grain surfaces, moderately common vitrinite (10%). About 20% brown carbonaceous mudstone	Coal 100%		
1130 – 1135m	As above	Sltst 40% Ss 40% C 20%		
1135 – 1140m	As above	C 30% Sltst 10% Ss 60%	Cly in sample	
1140 – 1145m	Sandstone, light grey, loose, fine to medium, subangular to angular, trace very fine, hard, medium grey, aggregates, abundant brown mica, trace white clay on sand grains, probable matrix rare pale green, rose coloured. Flat pieces of kaolin, give dull to moderate yellow fluorescence, no fluorescent cut	Ss 100% C tr Sltst TR		
1145 – 1150m	As above	Ss 100%		
1150 – 1155m	As above	Ss 100%		
1155 – 1160m	As above	Ss 100%		
1160 – 1165m	As above	Ss 100%		
1165 – 1170m	Sandstone a/a fine to coarse		Abt. Clyst on shakers before break	
1170 – 1175m	Slower drilling probably soft soluble Claystone			
1175 – 1180m	Coal dull and bright, sometimes laminated, sometimes as dark grey dull fragments and black shiny vitrinite. Moderately bright coal also common, as are fragments with a striated woody texture. One leaf fragment noted. Much more variety than overlying coals.	Coal 90% Ss 10%		



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1180 – 1185m	100% sandstone, trace coal in washed sample	Ss 100%	Claystone	
1185 – 1190m	100% sandstone, trace coal in washed sample Unwashed sample 1190m, Claystone, medium grey, soft-soluble	Ss 100%	Claystone	
1190 – 1195m	As above			
1195 – 1200m	Sandstone, as above predominantly coarse, Coal as above	Ss 95% C 5%	Soluble Clyst	
1200 - 1205m	Sandstone	Ss 100%	"	
1213 grab	Drill break, more rounded quartz, does not persist with depth	Ss 100%	Minor Claystone	
1210 -1250	Sandstone, light grey, speckled with kaolin fragments, fine to very coarse, subangular to angular, no distinctive difference to sandstones above, less biotite mica, more muscovite mica perhaps.	Ss 100% C Tr	V minor cly	
1250m - 1265m	Sandstone, light grey, loose, fine to coarse, poorly sorted, subangular to angular, trace muscovite and biotite mica, clear and white quartz grains, yellow and grey in part, white clay adheres to quartz grains and is present rare to trace as white moderately hard cuttings	Ss 100% C Tr	Sft sol Clyst	

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