Apache

Cuttings Descriptions Report

Well Name :	Dory-1	**Print Date**	18/11/2008
Wellsite Geologist(s) :	A Cruickshank G Fawns		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
Main				
1537.0 - 1540.0	85	**CEMENT:** as above		
	10	**CALCILUTITE:** see 1560m sample		
	5	**LCM:** Graphite		
1540.0 - 1550.0	70	**CEMENT:** as above		
	20	**CALCILUTITE:** see 1560m sample		
	10	**LCM:** Graphite and CaCO3		
1550.0 - 1560.0	95	**CALCILUTITE:** light grey, light green grey, light grey to off white, medium greenish grey, common argillaceous matrix, occasional fine quartz grains, common dark lithics, common glauconitic material, occasional micro-fossils, occasional orange calcite fragments, firm to moderately hard, sub-blocky to blocky.		
	5	**DOLOMITIC CLAYSTONE:** light yellow, orange, abundant calcareous material, minor lithics, moderately hard to hard, sub-blocky.		
1560.0 - 1570.0	100	**CALCILUTITE:** light grey, light greenish grey, light grey to off white, medium green grey, common argillaceous matrix, occasional fine quartz grains, common dark lithics, common glauconitic material, occasional micro-fossils, firm to moderately hard, sub-blocky to blocky.		
1570.0 - 1580.0	100	**CALCILUTITE:** light grey, light greenish grey, light grey to off white, medium greenish grey, common argillaceous matrix, occasional fine quartz grains, common dark lithics and glauconitic material, occasional micro-fossils, occasional orange calcite fragments, firm to moderately hard, sub-blocky to blocky.		
1580.0 - 1590.0	99	**CALCILUTITE:** as above		
	1	**DOLOMITIC CLAYSTONE:**		
1590.0 - 1600.0	100	**CALCILUTITE:** light grey, light greenish grey, light grey to off white, medium greenish grey, common argillaceous matrix, occasional to locally common floating fine quartz grains, common dark lithics and glauconitic material, occasional micro-fossils, minor carbonaceous material, firm to moderately hard, sub-blocky to blocky.		
1600.0 - 1610.0	100	**CALCILUTITE:** as above, silty in part and locally grading to an ARGILLACEOUS CALCISILTITE.		
1610.0 - 1620.0	100	**CALCILUTITE:** as above		
1620.0 - 1630.0	70	**CALCILUTITE:** Light grey to medium light grey, light olive grey to greenish grey, minor fine quartz grains, common dark lithics and glauconitic material, minor fossils, trace carbonaceous material, grades to CALCISILTITE in part, minor dispersive, soft to moderately hard, dominantly firm, common soft, minor moderately hard, sub-blocky to blocky, minor amorphous, nil visible porosity.		
	30	**CALCISILTITE:** Light grey to medium light grey, light olive grey to greenish grey, abundant matrix and grading to CALCILUTITE in part, common quartz grains, minor to common dark lithics and glauconitic material, minor fossils, trace carbonaceous material, soft to moderately hard, dominantly firm, common soft, minor moderately hard, sub-blocky to blocky, nil visible porosity.		
1630.0 - 1640.0	80	**CALCILUTITE:** As above, increase in carbonaceous material.		
	20	**CALCISILTITE:** as above		
1640.0 - 1650.0	80	**CALCILUTITE:** Very light grey to light grey, common medium light grey, minor light olive grey to greenish grey, minor fine quartz grains, common dark lithics, trace glauconitic material, rare fossils, trace carbonaceous material, trace very coarse calcareous fragments, common dispersive, soft to firm, dominantly soft, sub-blocky to minor amorphous, nil visible porosity.		
	15	**CALCISILTITE:** Medium dark grey, light olive grey to greenish grey, abundant matrix and grading to CALCILUTITE in part, minor quartz grains, minor dark lithics and glauconitic material, minor fossils, trace carbonaceous material, soft to firm,		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		dominantly firm, common soft, sub-blocky, nil visible porosity.		
	5	**CALCARENITE:** Medium light grey to medium grey, very fine, well sorted, angular to sub-angular, abundant argillaceous and micritic matrix, rarely microcrystalline, trace lithics, minor fossils, brittle to moderately hard, dominantly nil to very poor visible porosity, trace moldic porosity, no show.		
1650.0 - 1660.0	70	**CALCILUTITE:** as above		
	25	**CALCISILTITE:** as above		
	5	**CALCARENITE:** as above		
1660.0 - 1670.0	60	**CALCILUTITE:** Very light grey to light grey, common medium light grey, minor light olive grey to greenish grey, minor fine quartz grains, abundant very fine dark lithics, trace glauconitic material, rare fossils, minor carbonaceous material, trace very coarse calcareous fragments, common dispersive, soft to firm, dominantly soft, sub-blocky to minor amorphous, nil visible porosity.		
	35	**CALCISILTITE:** Medium grey to medium dark grey, light olive grey to greenish grey, abundant matrix and grading to CALCILUTITE in part, abundant very fine dark lithics, minor fossils, trace pyrite, trace glauconite, trace carbonaceous material, soft to firm, dominantly firm, common soft, sub-blocky, nil visible porosity.		
	5	**CALCARENITE:** Medium light grey to medium grey, very fine, well sorted, angular to sub-angular, abundant argillaceous and micritic matrix, rarely microcrystalline, trace lithics, minor fossils, brittle to moderately hard, dominantly nil visible porosity, no show.		
1670.0 - 1680.0	50	**CALCILUTITE:** as above		
	40	**CALCISILTITE:** as above		
	10	**CALCARENITE:** as above		
1680.0 - 1690.0	50	**CALCILUTITE:** Very light grey to light grey, minor medium light grey, trace fine to very coarse (angular) quartz grains, abundant very fine dark lithics, trace glauconitic material, common fossils, minor carbonaceous material, trace very coarse calcareous fragments, common dispersive, soft to firm, dominantly soft, sub-blocky to minor amorphous, nil visible porosity.		
	45	**CALCISILTITE:** Medium light grey to light olive grey, minor medium grey, abundant matrix and grading to CALCILUTITE in part, grades to CALCARENITE in part, abundant very fine dark lithics, common to abundant fossils (Foraminifera and Ooids), common very fine quartz grains, trace pyrite, trace glauconite, trace carbonaceous material, soft to firm, dominantly firm, common soft, sub-blocky, nil visible porosity.		
	5	**CALCARENITE:** Medium light grey to medium grey, very fine, well sorted, angular to sub-angular, abundant argillaceous and micritic matrix, rarely microcrystalline, trace lithics, common fossils (Ooids), brittle to moderately hard, dominantly nil visible porosity, no show.		
1690.0 - 1700.0	40	**CALCISILTITE:** as above		
	30	**OOLITIC CALCARENITE:** Medium light grey to medium grey, very fine to very coarse, poorly sorted, rounded to sub-angular, abundant argillaceous matrix, rarely microcrystalline, minor quartz grains (very fine to very coarse, well rounded), trace lithics, abundant fossils (Ooids, Foraminifera, Ammonites), minor glauconite, loose, brittle to moderately hard in part, dominantly nil visible porosity, good inferred porosity, no show.		
	30	**CALCILUTITE:** as above		
1700.0 - 1710.0	40	**OOLITIC CALCARENITE:** as above		
	30	**CALCISILTITE:** as above		
	30	**CALCILUTITE:** as above		
1710.0 - 1720.0	50	**CALCISILTITE:** as above		
	30	**CALCILUTITE:** as above		
	20	**CALCARENITE:** as above		
1720.0 - 1730.0	50	**CALCISILTITE:** Medium light grey to light olive grey, minor medium grey, abundant matrix and grading to CALCILUTITE in part, grades to CALCARENITE in part, abundant very fine dark lithics, common fossils (Foraminifera and Ooids), abundant very fine quartz grains, trace glauconite, trace carbonaceous material, soft to brittle, dominantly firm, common soft and brittle, sub-blocky, nil visible porosity, no show.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1720.0 - 1730.0	40	**CALCILUTITE:** Very light grey to light grey, minor medium light grey, common very fine dark lithics, trace glauconitic material, minor fossils, minor carbonaceous material, common dispersive, soft to firm, dominantly soft, sub-blocky to minor amorphous, nil visible porosity, no show.		
	10	**CALCARENITE:** Medium light grey to medium grey, very fine to fine, well sorted, rounded to sub-angular, abundant argillaceous matrix, rarely microcrystalline, trace lithics, abundant fossils (Ooids, Foraminifera, Ammonites), rare glauconite, loose, brittle to moderately hard in part, very poor visible porosity, trace moldic porosity, no show.		
1730.0 - 1740.0	60	**CALCISILTITE:** Dominantly greenish grey, common medium light grey to light olive grey, trace medium grey, abundant matrix and grading to CALCILUTITE in part, grades to CALCARENITE in part, abundant very fine dark lithics, common to abundant fossils (Ooids), abundant very fine quartz grains, trace glauconite, trace carbonaceous material, soft to brittle, dominantly firm, common soft and brittle, sub-blocky, nil visible porosity, no show.		
	20	**CALCARENITE:** as above		
	20	**CALCILUTITE:** as above		
1740.0 - 1750.0	80	**CALCISILTITE:** as above		
	10	**CALCARENITE:** as above		
	10	**CALCILUTITE:** as above		
1750.0 - 1760.0	95	**CALCISILTITE:** Dominantly greenish grey to light olive grey, common medium light grey to light olive grey, abundant matrix and grading to CALCILUTITE in part, abundant very fine dark lithics, minor fossils (Ooids), abundant very fine quartz grains, trace to common very fine glauconite, trace carbonaceous material, soft to brittle, dominantly firm, minor soft and brittle, sub-blocky, nil visible porosity, no show.		
	5	**CALCARENITE:** as above		
	0	**CALCILUTITE:** Trace only as above.		
1760.0 - 1770.0	95	**CALCISILTITE:** as above		
	5	**CALCARENITE:** as above		
	0	**CALCILUTITE:** as above		
1770.0 - 1780.0	75	**CALCISILTITE:** Dominantly greenish grey to light olive grey, common medium light grey to light olive grey, abundant matrix and grading to CALCILUTITE in part, grading to CALCARENITE in part, common fine dark lithics, minor fossils (Ooids), abundant very fine quartz grains, minor very fine glauconite, trace carbonaceous material, soft to brittle, dominantly firm, minor soft and brittle, sub-blocky, nil visible porosity, no show.		
	20	**CALCARENITE:** Medium light grey to medium grey, very fine to fine, well sorted, rounded to sub-angular, abundant argillaceous matrix, rarely microcrystalline, trace lithics, common fossils (Ooids, Foraminifera, Ammonites), rare glauconite, minor loose, dominantly brittle to moderately hard in part, very poor visible porosity, trace moldic porosity, no show.		
	5	**CALCILUTITE:** Light grey, minor medium light grey, minor fine dark lithics, trace glauconitic material, minor fossils, trace carbonaceous material, firm, sub-blocky, nil visible porosity, no show.		
1780.0 - 1800.0	75	**CALCISILTITE:** as above	90	1
	15	**CALCARENITE:** as above		
	10	**CALCILUTITE:** as above		
1800.0 - 1820.0	75	**CALCISILTITE:** Medium light grey, common light olive grey to light grey, minor olive grey, abundant argillaceous matrix, minor fine dark lithics, minor fossils (Ooids), minor very fine quartz grains, trace glauconite, trace carbonaceous material, soft to brittle, dominantly firm, minor soft and brittle, sub-blocky, nil visible porosity, no show.		
	15	**CALCARENITE:** Medium light grey to medium grey, very fine to fine, well sorted, rounded to sub-angular, abundant argillaceous matrix, rarely microcrystalline, trace lithics, common fossils (Ooids and Foraminifera), rare glauconite, brittle to moderately hard in part, very poor visible porosity, trace moldic porosity, no show.		
	10	**CALCILUTITE:** Light grey, minor medium light grey, minor argillaceous, minor fine dark lithics, trace glauconitic material, minor fossils, trace carbonaceous material,		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		firm, sub-blocky, nil visible porosity, no show.		
1820.0 - 1840.0	90	**CALCISILTITE:** as above	96	1
	5	**CALCARENITE:** as above		
	5	**CALCILUTITE:** as above		
1840.0 - 1860.0	100	**CALCISILTITE:** Medium light grey, common light olive grey to light grey, minor olive grey, common argillaceous matrix, minor fine dark lithics, minor to common fossils (Ooids), minor to common very fine quartz grains, trace glauconite, trace carbonaceous material, grades to CALCARENITE in part, soft to moderately hard, dominantly firm to brittle, minor soft and moderately hard, sub-blocky, nil to rarely very poor visible porosity, no show.		
1860.0 - 1880.0	100	**CALCISILTITE:** as above	85	1
1880.0 - 1900.0	70	**CALCISILTITE:** Medium light grey, common light olive grey to light grey, minor olive grey, common argillaceous matrix, grades to CALCILUTITE in part, minor fine dark lithics, minor to common fossils (Ooids, trace ammonite), minor very fine quartz grains, trace glauconite, trace carbonaceous material, grades to CALCARENITE in part, soft to moderately hard, dominantly firm to brittle, minor soft and moderately hard, sub-blocky, nil to rarely very poor visible porosity, no show.		
	30	**CALCILUTITE:** Light grey to light olive grey, minor medium grey, common argillaceous material, minor fine dark lithics, trace glauconitic material, minor to common fossils, trace carbonaceous material, firm, sub-blocky to blocky, nil visible porosity, no show.		
1900.0 - 1920.0	50	**CALCILUTITE:** As above, dominantly medium grey, grades to CALCAREOUS CLAYSTONE in part.	85	0
	50	**CALCISILTITE:** as above, abundant fossil in part.		
1920.0 - 1940.0	50	**CALCISILTITE:** Olive grey, abundant argillaceous matrix, grades to CALCILUTITE in part, minor fine dark lithics, minor to common fossils (Ooids, trace ammonite), minor very fine quartz grains, trace glauconitic material, trace carbonaceous material, soft to moderately hard, dominantly firm to brittle, minor soft and moderately hard, sub-blocky, nil visible porosity, no show.		
	45	**CALCILUTITE:** Medium grey, common light grey to light olive grey, common argillaceous material, grades to CALCAREOUS CLAYSTONE in part, minor fine dark lithics, trace glauconitic material, minor to common ooids, trace carbonaceous material, firm, sub-blocky to blocky, nil visible porosity, no show.		
	5	**DOLOMITE:** Medium dark grey to dark grey, microcrystalline, trace glauconitic material, very hard, angular.		
1940.0 - 1960.0	90	**CALCISILTITE:** as above.	83	
	10	**CALCILUTITE:** as above		
	0	**DOLOMITE:** Trace only as above.		
1960.0 - 1980.0	85	**CALCISILTITE:** as above		
	10	**CALCILUTITE:** as above		
	5	**DOLOMITE:** as above		
1980.0 - 2000.0	65	**CALCISILTITE:** Olive grey, abundant argillaceous matrix, grades to CALCILUTITE in part, minor very fine dark lithics, common ooids, trace ammonites, minor very fine quartz grains, trace to common very fine to fine glauconite, trace carbonaceous material, soft to moderately hard, dominantly firm to brittle, minor soft and moderately hard, sub-blocky, nil visible porosity, no show.	81	
	30	**CALCILUTITE:** Olive grey, argillaceous, grades to CALCAREOUS CLAYSTONE in part, minor very fine dark lithics, trace glauconitic material, minor ooids, trace carbonaceous material, firm, sub-blocky, nil visible porosity, no show.		
	5	**DOLOMITE:** Olive grey, microcrystalline, common cryptocrystalline, trace glauconitic material, very hard, angular.		
2000.0 - 2020.0	70	**CALCISILTITE:** as above		
	30	**CALCILUTITE:** as above		
2020.0 - 2040.0	50	**CALCILUTITE:** as above	81	
	50	**CALCISILTITE:** as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2040.0 - 2060.0	50	**CALCILUTITE:** Olive grey, argillaceous, abundant very fine dark lithics, trace glauconitic material, trace ooids, trace carbonaceous material, trace very fine quartz grains, firm to brittle, dominantly firm, common brittle, sub-blocky, nil visible porosity, no show.		
	50	**CALCISILTITE:** Olive grey, abundant argillaceous matrix, grades to CALCILUTITE in part, common very fine dark lithics, trace ooids, minor very fine quartz grains, trace to minor very fine to fine glauconite, trace carbonaceous material, soft to moderately hard, dominantly firm to brittle, minor soft and moderately hard, sub-blocky, nil visible porosity, no show.		
2060.0 - 2080.0	60	**CALCISILTITE:** as above, nil ooids.	79	1
	40	**CALCILUTITE:** as above, nil ooids.		
2080.0 - 2100.0	50	**CALCISILTITE:** as above, nil ooids.	79	3
	50	**CALCILUTITE:** as above, nil ooids.		
2100.0 - 2120.0	70	**CALCISILTITE:** Olive grey, greenish grey, light olive grey to off white, common to abundant argillaceous matrix and locally grades to CALCILUTITE in part, common very fine dark lithics, common ooids, minor very fine floating quartz grains, trace very fine glauconite, trace carbonaceous material, firm to moderately hard, sub-blocky, nil visible porosity, no show.		
	30	**CALCILUTITE:** Olive grey, greenish grey, light olive grey, abundant very fine dark lithics, occasional glauconitic material, common ooids, trace carbonaceous material, trace very fine floating quartz grains, firm to moderately hard, dominantly firm, sub-blocky, nil visible porosity, no show.		
2120.0 - 2140.0	90	**CALCISILTITE:** Olive grey, greenish grey, light olive grey to off white, commonly arenaceous and locally grades to CALCARENITE, common very fine dark lithics, occasional ooids, locally common very fine floating quartz grains, trace very fine glauconite, trace carbonaceous material, firm to moderately hard, sub-blocky, nil visible porosity, no show.	73	1
	10	**CALCILUTITE:** as above		
2140.0 - 2160.0	80	**CALCISILTITE:** as above, increasingly argillaceous.		
	20	**CALCILUTITE:** as above		
2160.0 - 2180.0	90	**CALCISILTITE:** Olive grey, greenish grey, light olive grey to off white, commonly arenaceous and locally grades to CALCARENITE, common very fine dark lithics, occasional ooids, locally common very fine floating quartz grains, trace very fine glauconite, trace carbonaceous material, firm to moderately hard, hard to very hard in part, sub-blocky, nil visible porosity, no show.	71	1
	10	**CALCILUTITE:** Olive grey, greenish grey, light olive grey, abundant very fine dark lithics, occasional glauconitic material, common ooids, trace carbonaceous material, trace very fine floating quartz grains, firm to moderately hard, dominantly firm, sub-blocky, nil visible porosity, no show.		
2180.0 - 2200.0	90	**CALCISILTITE:** Olive grey, greenish grey, light olive grey to light brownish grey, locally arenaceous and occasionally grades to a SILTY CALCARENITE, common very fine dark lithics, occasional ooids, locally common very fine floating quartz grains, trace very fine glauconite, trace carbonaceous material, firm to moderately hard, hard to very hard in part, sub-blocky, nil visible porosity, no show.		
	10	**CALCILUTITE:** as above		
2200.0 - 2220.0	70	**CALCISILTITE:** Olive grey, greenish grey, light olive grey to off white, common argillaceous matrix and locally grades to CALCILUTITE in part, locally arenaceous, common very fine dark lithics, trace ooids, minor very fine floating quartz grains, trace very fine glauconite, trace carbonaceous material, firm to moderately hard, sub-blocky, nil visible porosity, no show.	67	1
	30	**CALCILUTITE:** Olive grey, greenish grey, light olive grey, abundant very fine dark lithics, occasional glauconitic material, common ooids, trace carbonaceous material, trace very fine floating quartz grains, firm to moderately hard, dominantly firm, sub-blocky, nil visible porosity, no show.		
2220.0 - 2240.0	80	**CALCISILTITE:** as above		
	20	**CALCILUTITE:** as above, minor microcrystalline.		
2240.0 - 2260.0	80	**CALCISILTITE:** as above	66	1
	20	**CALCILUTITE:** as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2260.0 - 2280.0	90	**CALCISILTITE:** Olive grey, greenish grey, light olive grey to off white, common argillaceous matrix and locally grades to CALCILUTITE in part, locally arenaceous, common very fine dark lithics, trace ooids, minor very fine floating quartz grains, trace very fine glauconite, trace carbonaceous material, moderately hard to hard, sub-blocky, nil visible porosity, no show.		
	10	**CALCILUTITE:** Olive grey, greenish grey, light olive grey, abundant very fine dark lithics, occasional glauconitic material, trace ooids, trace carbonaceous material, trace very fine floating quartz grains, minor microcrystalline, moderately hard to hard, sub-blocky, nil visible porosity, no show.		
2280.0 - 2300.0	80	**CALCISILTITE:** as above	65	1
	20	**CALCILUTITE:** as above		
2300.0 - 2320.0	70	**CALCISILTITE:** as above, very hard to hard.		
	30	**CALCILUTITE:** as above, very hard to hard, locally common microcrystalline.		
2320.0 - 2340.0	60	**CALCISILTITE:** as above	65	1
	40	**CALCILUTITE:** as above		
2340.0 - 2360.0	50	**CALCILUTITE:** Olive grey, greenish grey, light olive grey, abundant very fine dark lithics, occasional glauconitic material, trace ooids, trace carbonaceous material, trace very fine floating quartz grains, minor microcrystalline, moderately hard to hard, sub-blocky, nil visible porosity, no show.		
	50	**CALCISILTITE:** as above		
2360.0 - 2370.0	60	**CALCISILTITE:** as above	64	
	40	**CALCILUTITE:** as above		
2370.0 - 2380.0	50	**CALCISILTITE:** as above		
	50	**CALCILUTITE:** as above		
2380.0 - 2400.0	60	**CALCILUTITE:** Olive grey, greenish grey, light olive grey, occasional very fine dark lithics, occasional glauconitic material, trace very fine floating quartz grains, minor microcrystalline fragments, moderately hard to hard, sub-blocky to blocky, nil visible porosity, no show.		
	40	**CALCISILTITE:** olive grey, light greenish grey, light grey to off white, common argillaceous matrix and locally grades to CALCILUTITE in part, locally arenaceous, minor very fine dark lithics, minor very fine floating quartz grains, trace very fine glauconite, hard to very hard, sub-blocky, nil visible porosity, no show.		
2400.0 - 2420.0	70	**CALCILUTITE:** as above, dominantly light olive grey.	63	1
	30	**CALCISILTITE:** as above		
2420.0 - 2440.0	70	**CALCILUTITE:** as above		
	30	**CALCISILTITE:** as above		
2440.0 - 2460.0	80	**CALCILUTITE:** as above	57	1
	20	**CALCISILTITE:** as above		
2460.0 - 2480.0	90	**CALCILUTITE:** Dominantly light olive grey, light greenish grey, olive grey, occasional very fine dark lithics, occasional glauconitic material, rare ooids, rare carbonaceous material, trace very fine floating quartz grains, minor microcrystalline fragments, rare disseminated pyrite, moderately hard to hard, very hard in part, sub-blocky to blocky, nil visible porosity, no show.		
	10	**CALCISILTITE:** as above		
2480.0 - 2500.0	90	**CALCILUTITE:** as above	54	1
	10	**CALCISILTITE:** as above		
2500.0 - 2520.0	85	**CALCILUTITE:** Very light olive grey, light greenish grey, light grey to off white, occasional very fine dark lithics, occasional glauconitic material, rare ooids, rare carbonaceous material, minor very fine to fine floating quartz grains, rare orange calcite fragments, minor nodular and disseminated pyrite, moderately hard to hard, very hard in part, sub-blocky to blocky, nil visible porosity, no show.		
	15	**CALCISILTITE:** as above, locally arenaceous, common fine to medium floating		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		quartz grains.		
2520.0 - 2540.0	85	**CALCAREOUS CLAYSTONE:** Dominantly light olive grey, light greenish grey, olive grey, occasional very fine dark lithics, occasional glauconitic material, minor ooids, rare carbonaceous material, trace very fine floating quartz grains, minor microcrystalline fragments, minor disseminated pyrite, moderately hard to hard, very hard in part, sub-blocky to blocky.	46	1
	15	**CALCAREOUS SILTSTONE:** olive grey, light greenish grey, light grey to off white, common argillaceous matrix and locally grades to a CALCAREOUS CLAYSTONE in part, locally arenaceous, minor very fine dark lithics, common fine to medium floating quartz grains, trace very fine glauconite, hard to very hard, sub-blocky.		
2540.0 - 2560.0	80	**CALCAREOUS CLAYSTONE:** as above		
	20	**CALCAREOUS SILTSTONE:** as above		
2560.0 - 2580.0	85	**CALCAREOUS CLAYSTONE:** as above, common medium to dark greenish grey, occasionally greyish green.	37	1
	15	**CALCAREOUS SILTSTONE:** as above		
2580.0 - 2600.0	90	**CALCAREOUS CLAYSTONE:** as above		
	10	**CALCAREOUS SILTSTONE:** as above		
2600.0 - 2620.0	90	**CALCAREOUS CLAYSTONE:** as above	32	1
	10	**CALCAREOUS SILTSTONE:** as above		
2620.0 - 2640.0	95	**CALCAREOUS CLAYSTONE:** as above		
	5	**CALCAREOUS SILTSTONE:** as above		
2640.0 - 2660.0	95	**CALCAREOUS CLAYSTONE:** as above	31	1
	5	**CALCAREOUS SILTSTONE:** as above		
2660.0 - 2680.0	100	**CALCAREOUS CLAYSTONE:** Very light olive grey, light greenish grey, light grey to off white, occasional glauconitic material, rare ooids, rare carbonaceous material, minor very fine to fine floating quartz grains, minor nodular and disseminated pyrite, moderately hard to hard, very hard in part, sub-blocky to blocky.		
2680.0 - 2700.0	100	**CALCAREOUS CLAYSTONE:** as above	28	1
2700.0 - 2720.0	100	**CALCAREOUS CLAYSTONE:** as above		
2720.0 - 2740.0	100	**CALCAREOUS CLAYSTONE:** Olive grey, minor medium light grey to medium grey, trace to minor micromicaceous, trace very fine to fine floating quartz grains, trace ooids and fossils, rare carbonaceous material, trace nodular and disseminated pyrite, firm to moderately hard, very hard in part, sub-blocky.	26	1
2740.0 - 2760.0	100	**CALCAREOUS CLAYSTONE:** Olive grey, minor medium light grey to medium grey, trace to minor micromicaceous, trace very fine to fine floating quartz grains, trace ooids and fossils, rare carbonaceous material, trace nodular and disseminated pyrite, trace glauconite, firm to hard, dominantly firm, common brittle, minor hard, very hard in part, sub-blocky to sub-fissile, dominantly sub-blocky, minor sub-fissile.		
2760.0 - 2780.0	95	**CALCAREOUS CLAYSTONE:** as above	21	
	5	**SILTSTONE:** Dusky yellowish brown to brownish black, arenaceous, abundant glauconite, trace very fine floating quartz grains, trace very fine calcareous fragments, soft to firm, sub-blocky.		
2780.0 - 2790.0	90	**CALCAREOUS CLAYSTONE:** Olive grey, common medium grey, trace to minor micromicaceous, trace very fine to fine floating quartz grains, rare carbonaceous material, trace nodular and disseminated pyrite, trace glauconite, firm to brittle, sub-blocky to sub-fissile, dominantly sub-blocky, minor sub-fissile.		
	10	**SILTSTONE:** As above, olive black in part, trace micromicaceous.		
2790.0 - 2800.0	80	**CALCAREOUS CLAYSTONE:** as above		
	20	**SILTSTONE:** as above		
2800.0 - 2805.0	75	**CALCAREOUS CLAYSTONE:** Olive grey, common medium grey, trace to minor micromicaceous, common silt, trace very fine to fine floating quartz grains, rare carbonaceous material, trace nodular and disseminated pyrite, trace glauconite, firm to brittle, sub-blocky to sub-fissile, dominantly sub-blocky, minor sub-fissile.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2800.0 - 2805.0	25	**SILTSTONE:** Dusky yellowish brown to brownish black, olive black in part, arenaceous, abundant glauconite, minor micromicaceous, trace very fine floating quartz grains, trace mica flakes, trace pyrite, soft to firm, sub-blocky.		
2805.0 - 2810.0	50	**SILTSTONE:** Dominantly olive black, common dusky yellowish brown to brownish black, arenaceous grading to argillaceous in part, abundant very fine to coarse glauconite, grades to GLAUCONITIC SILTSTONE, minor micromicaceous, trace very fine floating quartz grains, rare mica flakes, trace pyrite, trace ammonites, trace ooids, soft to firm, sub-blocky.		
	35	**CALCAREOUS CLAYSTONE:** Medium light grey to medium dark grey, dominantly medium grey, common olive grey, trace micromicaceous, minor very fine to fine floating quartz grains, trace nodular and disseminated pyrite, trace glauconite, soft to moderately hard, dominantly firm to brittle, common soft, minor moderately hard, sub-blocky to sub-fissile, dominantly sub-blocky, minor sub-fissile.		
	15	**SANDSTONE:** Clear to translucent, very fine to very coarse, dominantly very fine to fine, trace medium to very coarse, moderately sorted, angular to rounded, dominantly sub-angular to sub-rounded, minor angular and rounded, trace strong pyrite cement/matrix, trace argillaceous cement/matrix in part and grading to ARGILLACEOUS SANDSTONE, abundant glauconite, very hard aggregates where pyrite cement, soft aggregates where argillaceous cement, dominantly disaggregated, nil visible porosity, poor inferred porosity, no hydrocarbon fluorescence.		
2810.0 - 2815.0	40	**CALCAREOUS CLAYSTONE:** as above		
	40	**SILTSTONE:** as above		
	20	**SANDSTONE:** as above		
2815.0 - 2820.0	35	**CALCAREOUS CLAYSTONE:** as above	18	1
	35	**SILTSTONE:** as above		
	30	**SANDSTONE:** Clear to translucent, very fine to medium, dominantly very fine to fine, trace medium, well sorted, sub-angular to rounded, dominantly sub-rounded, common sub-angular, abundant rounded, trace strong pyrite cement/matrix, abundant glauconite, very hard aggregates where pyrite cement, dominantly disaggregated, nil visible porosity, poor inferred porosity, no hydrocarbon fluorescence.		
2820.0 - 2825.0	40	**SANDSTONE:** Clear to translucent, very fine to coarse, dominantly very fine to fine, common medium, trace coarse, well sorted, sub-angular to rounded, dominantly sub-rounded, common sub-angular, abundant rounded, trace strong pyrite cement/matrix, trace moderate siliceous cement, abundant glauconite, trace pyrite and glauconite inclusions, trace brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, poor inferred porosity, no hydrocarbon fluorescence.		
	35	**SILTSTONE:** as above		
	25	**CALCAREOUS CLAYSTONE:** as above		
2825.0 - 2830.0	50	**SANDSTONE:** Clear to translucent, very fine to very coarse, dominantly very fine to fine, common medium, trace coarse and very coarse, moderately sorted, sub-angular to rounded, dominantly sub-rounded, common sub-angular, abundant rounded, trace strong pyrite cement/matrix, common glauconite, trace pyrite and glauconite inclusions, trace brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, poor inferred porosity, no hydrocarbon fluorescence.		
	35	**SILTSTONE:** Dominantly olive black, common dusky yellowish brown to brownish black, arenaceous grading to argillaceous in part, dominantly minor to abundant in part very fine to coarse glauconite, minor micromicaceous, trace very fine floating quartz grains, rare mica flakes, trace pyrite, trace ammonites and ooids, soft to firm, sub-blocky.		
	15	**CALCAREOUS CLAYSTONE:** Medium light grey to medium dark grey, dominantly medium grey, common olive grey, trace micromicaceous, minor very fine to fine floating quartz grains, trace nodular and disseminated pyrite, trace glauconite, soft to moderately hard, dominantly firm to brittle, common soft, minor moderately hard, sub-blocky to sub-fissile, dominantly sub-blocky, minor sub-fissile.		
2830.0 - 2835.0	50	**SANDSTONE:** as above, minor coarse to very coarse.		
	35	**SILTSTONE:** as above		
	15	**CALCAREOUS CLAYSTONE:** as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2835.0 - 2840.0	50	**SANDSTONE:** Clear to translucent, very fine to very coarse, dominantly fine to medium, abundant very fine, minor coarse to very coarse, moderately sorted, sub-angular to well rounded, dominantly sub-rounded, abundant sub-angular, abundant rounded, common well rounded (coarse to very coarse grains), rare strong pyrite cement/matrix, common glauconite, trace pyrite and glauconite inclusions, trace brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, fair inferred porosity, no hydrocarbon fluorescence.		
	35	**SILTSTONE:** as above		
	15	**CALCAREOUS CLAYSTONE:** as above, grading to CALCILUTITE in part.		
2840.0 - 2845.0	60	**SANDSTONE:** Clear to translucent, very fine to very coarse, dominantly very fine to fine, common medium, minor coarse to very coarse, well sorted, sub-angular to well rounded, dominantly sub-rounded, abundant sub-angular, abundant rounded, minor well rounded (coarse to very coarse grains), rare strong pyrite cement/matrix, common glauconite, trace pyrite and glauconite inclusions, trace brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, poor inferred porosity, no hydrocarbon fluorescence.		
	30	**SILTSTONE:** Dominantly olive black, common dusky yellowish brown, dominantly argillaceous, common arenaceous, dominantly minor to abundant in part very fine to coarse glauconite, minor micromicaceous, trace very fine floating quartz grains, minor mica flakes, trace pyrite, trace ammonites and ooids, soft to firm, sub-blocky.		
	10	**CALCAREOUS CLAYSTONE:** Medium light grey to medium dark grey, dominantly medium grey, minor olive grey, trace micromicaceous, minor very fine to fine floating quartz grains, trace nodular and disseminated pyrite, trace glauconite, grades to CALCILUTITE in part, soft to moderately hard, dominantly firm to brittle, common soft, minor moderately hard, sub-blocky to sub-fissile, dominantly sub-blocky, minor sub-fissile.		
2845.0 - 2850.0	70	**SANDSTONE:** Clear to translucent, common opaque, fine to very coarse, dominantly medium to coarse, common fine, common very coarse, moderately sorted, sub-angular to well rounded, dominantly sub-rounded, abundant sub-angular, abundant rounded, minor well rounded (coarse to very coarse grains), trace strong calcareous cement, trace strong pyrite cement/matrix, abundant glauconite, trace pyrite and glauconite inclusions, rare fissile quartz shards, trace brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, good inferred porosity, no hydrocarbon fluorescence.		
	25	**SILTSTONE:** as above		
	5	**CALCAREOUS CLAYSTONE:** as above		
2850.0 - 2860.0	75	**SANDSTONE:** Clear to translucent, common opaque, fine to very coarse, dominantly medium to coarse, common fine, common very coarse, moderately sorted, sub-angular to well rounded, dominantly sub-rounded, abundant sub-angular, abundant rounded, minor well rounded (coarse to very coarse grains), trace strong calcareous cement, trace strong pyrite cement/matrix, abundant glauconite grading to GLAUCONITIC SANDSTONE in part, trace pyrite and glauconite inclusions, trace mica flakes, trace fossils, rare fissile quartz shards, trace brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, good inferred porosity, no hydrocarbon fluorescence.	6	
	20	**SILTSTONE:** as above		
	5	**CALCAREOUS CLAYSTONE:** as above		
2860.0 - 2870.0	85	**SANDSTONE:** Clear to translucent, abundant opaque, fine to very coarse, dominantly coarse to very coarse, minor fine, abundant medium, well sorted, sub-angular to well rounded, dominantly sub-rounded to rounded, abundant sub-angular, common well rounded, trace strong calcareous cement, trace strong siliceous cement with fused grain boundaries, abundant glauconite, trace pyrite and glauconite inclusions, trace mica flakes, trace fossils, rare fissile quartz shards, trace brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, very good inferred porosity, no hydrocarbon fluorescence.		
	10	**SILTSTONE:** as above, becoming more arenaceous.		
	5	**CALCAREOUS CLAYSTONE:** as above		
2870.0 - 2880.0	90	**SANDSTONE:** Clear to translucent, abundant opaque, fine to very coarse, dominantly coarse to very coarse, minor fine, abundant medium, well sorted, sub-angular to well rounded, dominantly sub-rounded to rounded, abundant sub-angular, common well rounded, trace strong calcareous cement, trace strong siliceous cement with fused grain boundaries, trace argillaceous matrix, in part abundant argillaceous cement/matrix with fine grains and abundant glauconite and grading to an argillaceous glauconitic sandstone, common glauconite, trace mica		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		flakes, trace fossils, rare fissile quartz shards, brittle to very hard aggregates (10%), dominantly disaggregated (90%), nil visible porosity, very good inferred porosity, no hydrocarbon fluorescence.		
	5	**CALCAREOUS CLAYSTONE:** as above		
	5	**SILTSTONE:** as above		
2880.0 - 2890.0	90	**SANDSTONE:** as above		
	5	**SILTSTONE:** as above		
	5	**CALCAREOUS CLAYSTONE:** as above		
2890.0 - 2900.0	50	**GLAUCONITIC SANDSTONE:** Medium grey to dark greenish grey, clear to translucent, very fine to medium, dominantly very fine to fine aggregates, dominantly medium disaggregated grains, well sorted, sub-angular to rounded, dominantly sub-rounded to sub-angular, common rounded, moderately strong calcareous cement, trace strong pyrite cement, trace to abundant argillaceous matrix in part, very fine to medium glauconite grading to GREENSAND in part, trace to minor mica flakes, trace fine pyrite nodules, trace lithics, abundant friable to moderately hard aggregates, dominantly brittle to moderately hard, rarely friable, dominantly disaggregated, nil to very poor visible porosity, fair inferred porosity, no hydrocarbon fluorescence.	5	
	30	**SANDSTONE:** Clear to translucent, abundant opaque, medium to very coarse, dominantly coarse to very coarse, abundant medium, well sorted, sub-angular to well rounded, dominantly sub-rounded to rounded, common sub-angular, abundant well rounded, trace strong calcareous cement, trace pyrite cement/matrix, trace glauconite, trace mica flakes, rare fissile quartz shards, brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, very good inferred porosity, no hydrocarbon fluorescence.		
	10	**CLAYSTONE:** Medium dark grey to olive grey, common medium light grey, moderately calcareous, trace micromicaceous, minor very fine to fine floating quartz grains, trace nodular and disseminated pyrite, brittle to hard, blocky to fissile, dominantly sub-fissile, trace blocky, common sub-blocky, common fissile to splintery.		
	10	**SILTSTONE:** Dominantly olive black, common dusky yellowish brown, argillaceous, common arenaceous, dominantly minor to abundant in part very fine to coarse glauconite, minor micromicaceous, trace very fine floating quartz grains, minor mica flakes, trace pyrite, soft to firm, sub-blocky.		
2900.0 - 2905.0	60	**GLAUCONITIC SANDSTONE:** as above		
	20	**SANDSTONE:** as above		
	10	**CLAYSTONE:** as above		
	10	**SILTSTONE:** as above		
2905.0 - 2910.0	50	**SANDSTONE:** as above		
	30	**GLAUCONITIC SANDSTONE:** as above		
	10	**SILTSTONE:** as above		
	10	**CLAYSTONE:** as above		
2910.0 - 2920.0	40	**GLAUCONITIC SANDSTONE:** as above		
	40	**SANDSTONE:** as above		
	10	**CLAYSTONE:** as above		
	10	**SILTSTONE:** as above		
2920.0 - 2930.0	40	**SANDSTONE:** Clear to translucent, abundant opaque, medium to very coarse, dominantly coarse to very coarse, abundant medium, well sorted, sub-angular to well rounded, dominantly sub-rounded to rounded, common sub-angular, abundant well rounded, trace strong calcareous cement, trace pyrite cement/matrix, trace glauconite and glauconitic staining, trace mica flakes, rare fissile quartz shards, trace pyrite lens and inclusions, brittle to very hard aggregates, dominantly disaggregated, nil visible porosity, very good inferred porosity, no hydrocarbon fluorescence.		
	35	**GLAUCONITIC SANDSTONE:** Medium dark grey to olive black, common medium grey, clear to translucent, very fine to medium, dominantly very fine to fine aggregates, dominantly medium disaggregated grains, well sorted, sub-angular to rounded, dominantly sub-rounded to sub-angular, common rounded, minor moderately strong calcareous cement, minor moderately strong siliceous cement, trace argillaceous cement/matrix and grading to ARGILLACEOUS SANDSTONE,		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		common to abundant light grey argillaceous matrix, common brownish grey silty matrix in part, very fine to medium glauconite grading to GREENSAND in part, trace mica flakes, trace fine pyrite nodules, trace lithics, trace carbonaceous material, abundant friable to moderately hard aggregates, dominantly brittle to moderately hard, rarely friable, firm where argillaceous and silty, disaggregated, nil to very poor visible porosity, poor inferred porosity, no hydrocarbon fluorescence.		
	15	**CLAYSTONE:** Medium dark grey to olive grey, minor medium light grey, moderately calcareous to common non calcareous in part, trace micromicaceous, trace very fine to fine floating quartz grains, trace nodular and disseminated pyrite, trace carbonaceous material and laminae, brittle to hard, blocky to fissile, dominantly sub-fissile, trace blocky, common sub-blocky, common fissile to splintery.		
	10	**SILTSTONE:** Dominantly olive black, common dusky yellowish brown, greenish black in part, argillaceous and grading to SILTY CLAYSTONE in part, common arenaceous, minor glauconite, minor micromicaceous, trace to abundant very fine floating quartz grains and grading to SILTY SANDSTONE, trace mica flakes, trace pyrite, soft to brittle, dominantly firm, sub-blocky.		
2930.0 - 2940.0	50	**SANDSTONE:** as above	4	
	35	**GLAUCONITIC SANDSTONE:** as above		
	10	**SILTSTONE:** as above		
	5	**CLAYSTONE:** as above		
2940.0 - 2950.0	50	**SANDSTONE:** as above		
	30	**GLAUCONITIC SANDSTONE:** as above, decreasing glauconite content.		
	15	**SILTSTONE:** Dominantly olive black, common dusky yellowish brown, greenish black in part, common medium dark grey, dominantly arenaceous, argillaceous and grading to SILTY CLAYSTONE in part, minor glauconite, trace micromicaceous, trace mica flakes, trace to abundant very fine floating quartz grains and grading to SILTY SANDSTONE, trace pyrite, trace carbonaceous material, soft to firm, sub-blocky.		
	5	**CLAYSTONE:** as above		
2950.0 - 2952.0	70	**SANDSTONE:** as above		
	10	**SILTSTONE:** as above		
	10	**GLAUCONITIC SANDSTONE:** as above		
	10	**CLAYSTONE:** as above Last sample before POOH		
2952.0 - 2960.0	65	**SANDSTONE:** clear to translucent, frosted, dominantly coarse to very coarse, commonly fine to medium grains, poor to moderately well sorted, angular to sub-angular, sub-rounded where fine to medium grained, trace weak calcareous cement, nil visible matrix, generally clean disaggregated grains, very good inferred porosity. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**GLAUCONITIC SANDSTONE:** Medium grey, light olive grey, very fine to fine, dominantly fine, well sorted, round to sub-rounded, minor moderately strong calcareous cement, common argillaceous matrix and grading to ARGILLACEOUS SANDSTONE, common to locally abundant very fine to medium glauconite grains, trace mica flakes, occasional fine pyrite nodules, trace lithics, trace carbonaceous material, friable to moderately hard aggregates, hard in part, very poor visible porosity, no hydrocarbon fluorescence.		
	10	**SILTSTONE:** medium dark grey brown, olive black, slightly arenaceous, common fine to medium glauconite grains, common tan lithics, minor micromicaceous, trace to minor nodular and disseminated pyrite, moderately hard to hard, sub-blocky.		
	10	**CLAYSTONE:** light bluish grey, light grey, light greenish grey, silicic, minor calcareous material, common off white lithics, commonly micromicaceous, hard to very hard, sub-fissile to sub-blocky.		
2960.0 - 2970.0	50	**SANDSTONE:** as above, minor weak pyritic cement, trace nodular pyrite. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2960.0 - 2970.0	20	**SILTSTONE:** as above		
	20	**CLAYSTONE:** as above		
	10	**GLAUCONITIC SANDSTONE:** as above		
2970.0 - 2980.0	60	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** moderately bright pale green and pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	20	**CLAYSTONE:** as above		
	15	**SILTSTONE:** as above		
	5	**GLAUCONITIC SANDSTONE:** as above, abundant glauconite grains.		
2980.0 - 2990.0	75	**SANDSTONE:** as above, minor fine to medium grains, generally well sorted, occasional nodular pyrite. **FLUORESCENCE : (Trace)** moderately bright pale green and pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	10	**CLAYSTONE:** as above		
	10	**SILTSTONE:** as above		
	5	**GLAUCONITIC SANDSTONE:** as above		
2990.0 - 3000.0	65	**SANDSTONE:** as above, increasingly common nodular pyrite and medium glauconite grains. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**CLAYSTONE:** as above		
	15	**SILTSTONE:** as above		
	5	**GLAUCONITIC SANDSTONE:** as above		
3000.0 - 3010.0	75	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	10	**CLAYSTONE:** as above.		
	10	**SILTSTONE:** as above		
	5	**GLAUCONITIC SANDSTONE:** as above		
3010.0 - 3020.0	75	**SANDSTONE:** clear to translucent, frosted, dominantly coarse to very coarse, commonly fine to medium grains, poor to locally well sorted, angular to sub-angular, sub-rounded where fine to medium grained, minor weak pyritic cement, trace weak calcareous cement, nil visible matrix, common nodular pyrite cemented around glauconite nodules, common loose medium glauconite grains, generally clean disaggregated grains, very good inferred porosity. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	10	**CLAYSTONE:** light bluish grey, light grey, light greenish grey, silicic, minor calcareous material, common off white lithics, commonly micromicaceous, hard to very hard, sub-fissile to sub-blocky.		
	10	**SILTSTONE:** medium dark grey brown, dark brown, occasionally off white to tan, slightly arenaceous, common fine to medium glauconite grains, common tan lithics, minor micromicaceous, trace to minor nodular and disseminated pyrite, moderately hard to hard, sub-blocky.		
	5	**GLAUCONITIC SANDSTONE:** as above		
3020.0 - 3030.0	70	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	10	**CLAYSTONE:** as above		
	10	**GLAUCONITIC SANDSTONE:** Medium grey, light olive grey, translucent in part,		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		very fine to fine, dominantly fine, well sorted, round to sub-rounded, minor moderately strong calcareous cement, common argillaceous matrix and grading to ARGILLACEOUS SANDSTONE, abundant very fine to medium glauconite grains, trace mica flakes, occasional fine pyrite nodules, trace lithics, trace carbonaceous material, friable to moderately hard aggregates, hard in part, very poor visible porosity, no hydrocarbon fluorescence.		
	10	**SILTSTONE:** as above		
3030.0 - 3040.0	80	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	10	**CLAYSTONE:** as above		
	7	**SILTSTONE:** as above		
	3	**GLAUCONITIC SANDSTONE:** as above		
3040.0 - 3050.0	80	**SANDSTONE:** as above, occasional strong siliceous cement where fine grained aggregates and associated poor to fair inferred porosity. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	10	**SILTSTONE:** as above, common carbonaceous micro laminations.		
	5	**GLAUCONITIC SANDSTONE:** as above, common off white argillaceous matrix.		
	5	**CLAYSTONE:** as above		
3050.0 - 3060.0	80	**SANDSTONE:** clear to translucent, frosted, dominantly coarse to very coarse, common very fine to medium grains, very poorly sorted, angular to sub-angular, sub-rounded where very fine to medium grained, common strong siliceous cement and common fused grain boundaries, minor moderately strong pyritic cement, trace weak calcareous cement, common off white argillaceous matrix where very fine to fine aggregates, nil visible matrix associated with coarse grains, common nodular pyrite, occasional loose medium glauconite grains, rare chert fragments, generally clean disaggregated grains, very good inferred porosity. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**SILTSTONE:** medium dark grey brown, medium brown, occasionally off white to tan, argillaceous in part, occasional fine to medium glauconite grains, common tan lithics, minor micromicaceous, common carbonaceous micro laminations. trace to minor nodular, moderately hard to hard, sub-blocky.		
	5	**CLAYSTONE:** as above, occasional light brownish grey, common carbonaceous micro laminations.		
3060.0 - 3070.0	85	**SANDSTONE:** as above, increasingly common fine to medium aggregates with off white argillaceous matrix, minor carbonaceous laminations and specks. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**SILTSTONE:** as above		
3070.0 - 3080.0	90	**SANDSTONE:** clear to translucent, off white, frosted, very fine to very coarse, very poorly sorted, angular to sub-angular where coarse, sub-rounded where very fine to medium grained, common strong siliceous cement and common fused grain boundaries, minor moderately strong pyritic cement, trace weak calcareous cement, common off white argillaceous matrix where very fine to fine tight aggregates, nil visible matrix associated with coarse grains, common nodular pyrite, minor loose medium glauconite grains, common chert fragments, minor carbonaceous material, generally clean disaggregated grains and fractured quartzite shards, poor visible porosity in fine aggregates, fair to good inferred porosity. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	10	**SILTSTONE:** medium brown to tan, medium grey brown, argillaceous and locally grading to a SILTY CLAYSTONE, increasingly common carbonaceous laminations and specks, locally arenaceous, trace lithics, moderately hard to hard, sub-fissile to sub-blocky.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3080.0 - 3090.0	85	**SANDSTONE:** as above, dominantly fine to medium grains. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**SILTSTONE:** as above		
3090.0 - 3100.0	85	**SANDSTONE:** off white, clear to translucent, dominantly very fine to medium with common to abundant coarse to very coarse fractured grains, angular to sub-rounded, dominantly sub-angular, common strong siliceous cement and common fused grain boundaries, minor moderately strong pyritic cement, trace weak calcareous cement, common off white argillaceous matrix where very fine to fine tight aggregates, nil visible matrix associated with coarse grains, increasingly common carbonaceous specks and laminations in fine grained aggregates, common nodular pyrite, rare glauconite nodules, common chert fragments, common friable to moderately hard fine grained aggregates, generally clean disaggregated coarse grains and fractured quartzite shards, poor visible porosity in fine aggregates, generally fair to good inferred porosity. **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**SILTSTONE:** as above, carbonaceous material locally grading to COAL stringers, occasional arenaceous laminations.		
3100.0 - 3110.0	85	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**SILTSTONE:** as above		
3110.0 - 3120.0	85	**SANDSTONE:** as above, common coarse to very coarse grains. **FLUORESCENCE : (Trace)**		
	15	**SILTSTONE:** as above		
3120.0 - 3130.0	85	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** moderately bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and minor slow bleeding cut, thin off white to pale green film residue.		
	15	**SILTSTONE:** as above		
3130.0 - 3140.0	80	**SANDSTONE:** off white, clear to translucent, dominantly very fine to medium with common coarse to very coarse fractured grains, angular to sub-rounded, dominantly sub-angular, common strong siliceous cement and occasional fused grain boundaries, minor moderately strong pyritic cement, trace weak calcareous cement, common off white argillaceous matrix where very fine to fine tight aggregates, occasional carbonaceous specks, common nodular pyrite, rare glauconite nodules, common chert fragments, common friable to moderately hard fine grained aggregates, generally clean disaggregated coarse grains and fractured quartzite shards, poor to fair visible porosity in fine aggregates, generally fair to good inferred porosity, no hydrocarbon fluorescence.		
	20	**SILTSTONE:** medium brown to tan, medium grey brown, generally argillaceous and locally grading to a SILTY CLAYSTONE, common carbonaceous laminations and specks and locally grading to COAL stringers, locally arenaceous, minor micromicaceous, trace lithics, moderately hard to hard, sub-fissile to sub-blocky.		
3140.0 - 3150.0	75	**SANDSTONE:** as above		
	25	**SILTSTONE:** as above		
3150.0 - 3160.0	75	**SANDSTONE:** as above		
	25	**SILTSTONE:** as above		
3160.0 - 3170.0	70	**SANDSTONE:** as above		
	30	**SILTSTONE:** medium brown to tan, medium grey brown, generally argillaceous and locally grading to a SILTY CLAYSTONE, common carbonaceous laminations and specks and locally grading to VITREOUS COAL stringers, locally arenaceous, minor micromicaceous, trace lithics, moderately hard to hard, sub-fissile to sub-blocky.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3170.0 - 3180.0	70	**SANDSTONE:** as above		
	30	**SILTSTONE:** medium brown to tan, medium grey brown, generally argillaceous and locally grading to a SILTY CLAYSTONE, common carbonaceous laminations and specks and locally grading to VITREOUS COAL stringers, locally arenaceous, minor micromicaceous, trace lithics, moderately hard to hard, sub-fissile to sub-blocky.		
3180.0 - 3190.0	80	**SANDSTONE:** clear to translucent, off white, dominantly medium, commonly very fine to fine and common coarse to very coarse fractured grains, angular to sub-rounded, dominantly sub-angular, common strong siliceous cement and occasional fused grain boundaries, minor moderately strong pyritic cement, trace weak calcareous cement, common off white argillaceous matrix where very fine to fine tight aggregates, occasional carbonaceous specks, common nodular pyrite, rare glauconite nodules, common chert fragments, common friable to moderately hard fine grained aggregates, generally clean disaggregated coarse grains and fractured quartzite shards, poor to fair visible porosity in fine aggregates, generally fair to good inferred porosity, no hydrocarbon fluorescence.		
	18	**SILTSTONE:** as above, increasingly common COAL stringers		
	2	**COAL:** black, olive black, vitreous to sub-vitreous, common silty laminations and commonly grading to a CARBONACEOUS SILTSTONE, hackly in part, hard to very hard, sub conchoidal to sub-blocky.		
3190.0 - 3200.0	70	**SANDSTONE:** as above		
	29	**SILTSTONE:** as above		
	1	**COAL:** as above		
3200.0 - 3210.0	80	**SANDSTONE:** off white, clear to translucent, very fine to medium, common coarse to very coarse fractured grains, sub-angular to sub-rounded, common strong siliceous cement and occasional fused grain boundaries, minor moderately strong pyritic cement, trace weak calcareous cement, common off white argillaceous matrix where very fine to fine tight aggregates, occasional pale brown silty matrix and locally grading to a SILTY SANDSTONE, occasional carbonaceous specks, common nodular pyrite, common friable to moderately hard fine grained aggregates, generally clean disaggregated grains, poor to fair visible porosity in fine aggregates, generally fair inferred porosity, no hydrocarbon fluorescence.		
	20	**SILTSTONE:** medium brown, medium grey brown, light olive grey, commonly argillaceous and locally grading to a SILTY CLAYSTONE, common carbonaceous laminations and specks and locally grading to VITREOUS COAL stringers, locally arenaceous and grading to a SILTY SANDSTONE in part, minor micromicaceous, trace lithics, moderately hard to hard, sub-fissile to sub-blocky.		
3210.0 - 3220.0	70	**SANDSTONE:** off white , pale brown, clear to translucent, very fine to medium, decreasingly common coarse to very coarse fractured grains, sub-angular to sub-rounded, common strong siliceous cement and occasional fused grain boundaries where coarse grained, trace pyritic cement, trace weak calcareous cement, common off white argillaceous matrix where very fine to fine tight aggregates, occasional pale brown silty matrix and locally grading to an ARENACEOUS SILTSTONE, common carbonaceous specks, common nodular pyrite with occasional glauconite grains, common friable to moderately hard fine grained aggregates, generally clean disaggregated grains, poor to fair visible porosity in fine aggregates, poor to generally fair inferred porosity, no hydrocarbon fluorescence.		
	28	**SILTSTONE:** as above		
	2	**COAL:** black, olive black, dark grey, sub-vitreous, dull and silty in part, common silty laminations and commonly grading to a CARBONACEOUS SILTSTONE, hackly in part, hard to very hard, sub conchoidal to sub-blocky.		
3220.0 - 3230.0	70	**SANDSTONE:** as above		
	30	**SILTSTONE:** as above		
3230.0 - 3240.0	70	**SANDSTONE:** as above		
	29	**SILTSTONE:** as above		
	1	**COAL:** as above		
3240.0 - 3250.0	75	**SANDSTONE:** clear to translucent, frosted, off white to pale grey in part, fine to very coarse, dominantly fine to medium, common coarse angular grains, poor sorted, dominantly sub-angular to sub-rounded, common angular, common strong siliceous cement and fused grain boundaries where medium to coarse grained, minor strong pyritic cement, trace weak calcareous cement, common off white to pale grey brown		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		argillaceous matrix where very fine to fine tight aggregates, occasional pale brown silty matrix and locally grading to ARENACEOUS SILTSTONE, common silty and carbonaceous laminations, common nodular pyrite, common friable to very hard fine to medium grained aggregates, generally clean disaggregated grains, poor to fair visible porosity in fine aggregates, poor to generally fair inferred porosity. **FLUORESCENCE : (Trace)** bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	25	**SILTSTONE:** medium brown, medium grey brown, light olive grey, commonly argillaceous and locally grading to a SILTY CLAYSTONE, common carbonaceous laminations and specks and locally grading to VITREOUS COAL stringers, locally arenaceous and grading to a SILTY SANDSTONE in part, minor micromicaceous, trace lithics, moderately hard to hard, sub-fissile to sub-blocky.		
3250.0 - 3260.0	70	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	30	**SILTSTONE:** as above		
3260.0 - 3270.0	65	**SANDSTONE:** as above, common rock flour. **FLUORESCENCE : (5%)** bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	35	**SILTSTONE:** as above		
3270.0 - 3280.0	75	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	25	**SILTSTONE:** as above		
3280.0 - 3290.0	80	**SANDSTONE:** clear to translucent, frosted, off white to pale grey in part, fine to very coarse, dominantly fine to medium, common coarse angular grains, poor sorted, dominantly sub-angular to sub-rounded, common angular, common strong siliceous cement and fused grain boundaries where medium to coarse grained, minor strong pyritic cement, trace weak calcareous cement, common off white to pale grey brown argillaceous matrix where very fine to fine tight aggregates, occasional pale brown silty matrix and locally grading to ARENACEOUS SILTSTONE, common silty and carbonaceous laminations, common nodular pyrite, common very hard fine to medium grained aggregates, generally clean disaggregated grains, common rock flour, poor visible porosity in fine aggregates, poor to generally fair inferred porosity. **FLUORESCENCE : (Trace)** bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	20	**SILTSTONE:** medium brown, medium grey brown, light olive grey, commonly arenaceous and locally grading to a SILTY SANDSTONE, common carbonaceous laminations and specks, locally argillaceous, minor micromicaceous, trace lithics, moderately hard to hard, sub-blocky, sub-fissile in part.		
3290.0 - 3300.0	80	**SANDSTONE:** as above, increasingly common coarse to very coarse angular quartz grains. **FLUORESCENCE : (Trace)** bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	20	**SILTSTONE:** as above		
3300.0 - 3310.0	80	**SANDSTONE:** as above **FLUORESCENCE : (Trace)** bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	20	**SILTSTONE:** as above		
3310.0 - 3320.0	85	**SANDSTONE:** clear to translucent, frosted, very fine to very coarse, dominantly medium to coarse, poorly sorted, sub-angular to sub-rounded, angular in part, common weak siliceous and calcareous cement, rare pyrite cement, locally common pale brown to off white argillaceous and silty matrix where very fine to fine grained aggregates, common nodular pyrite with occasional glauconitic grains, common lithics and minor carbonaceous specks, generally clean disaggregated grains, minor very hard very fine to fine grained aggregates, good inferred porosity.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		FLUORESCENCE : (Trace) bright pale blue to off white spotted residual fluorescence associated with coarse sandstone grains, slow diffusing cut and weak slow bleeding cut, thick off white to pale green film residue.		
	15	**SILTSTONE:** light to medium grey brown, light olive grey, commonly arenaceous and locally grading to a SILTY SANDSTONE, common carbonaceous laminations and specks, locally argillaceous, minor micromicaceous, trace lithics, moderately hard to hard, sub-blocky, sub-fissile in part.		
3320.0 - 3340.0	85	**SANDSTONE:** clear to translucent, frosted, very fine to very coarse, dominantly medium to coarse, poorly sorted, sub-angular to sub-rounded, angular in part, common weak siliceous and calcareous cement, rare pyrite cement, locally common pale brown to off white argillaceous and silty matrix where very fine to fine grained aggregates, common nodular pyrite with occasional glauconitic grains, common lithics and minor carbonaceous specks, generally clean disaggregated grains, minor very hard very fine to fine grained aggregates, good inferred porosity, no hydrocarbon fluorescence.		
	15	**SILTSTONE:** light to medium grey brown, light olive grey, commonly arenaceous and locally grading to a SILTY SANDSTONE, common carbonaceous laminations and specks, locally argillaceous, minor micromicaceous, trace lithics, moderately hard to hard, sub-blocky, sub-fissile in part.		
3340.0 - 3350.0	95	**SANDSTONE:** Clear to translucent, off white, frosted, very fine to very coarse, dominantly medium to coarse, poor to moderately sorted, sub-angular to sub-rounded, angular in part, common weak siliceous and calcareous cement, rare pyrite cement, locally common off white argillaceous fine grained aggregates, minor nodular pyrite, common lithics and carbonaceous specks, generally clean disaggregated grains, minor very hard very fine to fine grained aggregates, good inferred porosity, no hydrocarbon fluorescence.		
	5	**SILTSTONE:** as above Spot sample only		
3350.0 - 3360.0	95	**SANDSTONE:** as above		
	5	**SILTSTONE:** as above		
3360.0 - 3380.0	90	**SANDSTONE:** Clear to translucent, abundant opaque, medium light grey to medium grey aggregates, fine to very coarse, dominantly medium to coarse, abundant fine, abundant very coarse, aggregates are fine, moderately sorted, angular to rounded, dominantly sub-angular to sub-rounded, common angular and rounded, rare moderate siliceous cement, rare pyrite cement, white argillaceous matrix, minor nodular pyrite, common lithics and carbonaceous specks, trace chert, trace mica flakes, dominantly disaggregated, minor brittle to very hard aggregates, nil to poor visible porosity and good inferred porosity, no hydrocarbon fluorescence.		
	10	**SILTSTONE:** Dark grey to olive black, common medium dark grey, arenaceous, minor argillaceous, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace fine quartz grains, trace nodular and disseminated pyrite, trace mica flakes, firm to hard, dominantly moderately hard to hard, abundant firm, sub-blocky, sub-fissile in part.		
3380.0 - 3400.0	90	**SANDSTONE:** as above, dominantly medium, abundant coarse, minor very coarse.		
	10	**SILTSTONE:** as above		
3400.0 - 3420.0	85	**SANDSTONE:** Clear to translucent, abundant opaque, medium light grey to medium grey aggregates, fine to very coarse, dominantly medium to coarse, abundant fine, common very coarse, aggregates (10%) are fine, moderately sorted, angular to rounded, dominantly sub-angular to sub-rounded, common angular and rounded, rare moderate siliceous cement, rare pyrite cement, abundant white argillaceous matrix and grading to ARGILLACEOUS SANDSTONE, minor brownish black silty matrix and grading to SILTY SANDSTONE, minor nodular pyrite, common lithics and carbonaceous specks, trace chert, trace mica flakes, trace glauconite in aggregates, dominantly disaggregated, minor brittle to very hard aggregates, poor to in part fair visible porosity and good inferred porosity, no hydrocarbon fluorescence.		
	15	**SILTSTONE:** Dark grey to olive black, common medium dark grey, arenaceous and grading to SILTY SANDSTONE in part, minor argillaceous, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace fine quartz grains, trace nodular and disseminated pyrite, trace mica flakes, firm to hard, dominantly moderately hard to hard, abundant firm, sub-blocky, sub-fissile in part.		
3420.0 - 3440.0	90	**SANDSTONE:** as above, dominantly coarse.		
	10	**SILTSTONE:** as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3440.0 - 3450.0	85	**SANDSTONE:** as above, medium to very coarse, dominantly medium, abundant coarse, minor very coarse, minor fine grained aggregates.		
	15	**SILTSTONE:** as above		
3450.0 - 3460.0	100	**SANDSTONE:** Clear to translucent, abundant opaque, fine to coarse, dominantly medium, abundant fine, common coarse, well sorted, sub-angular to rounded, dominantly sub-rounded to rounded, abundant sub-angular, trace pyrite cement, common nodular pyrite, common lithics and carbonaceous material, trace glauconite or possibly chlorite, trace calcareous fragments, disaggregated, good inferred porosity, no hydrocarbon fluorescence.		
3460.0 - 3470.0	75	**SANDSTONE:** Clear to translucent, abundant opaque, medium light grey to medium grey aggregates, very fine to very coarse, very poorly sorted, angular to rounded, dominantly sub-angular to sub-rounded, common angular and rounded, very fine to fine grains dominantly rounded, trace weak siliceous cement, trace pyrite cement, abundant white dispersive argillaceous matrix and grading to ARGILLACEOUS SANDSTONE, minor nodular pyrite, common lithics and carbonaceous specks, trace calcareous fragments, dominantly disaggregated, minor friable aggregates, poor visible porosity and fair inferred porosity, no hydrocarbon fluorescence.		
	25	**SILTSTONE:** Dark grey to olive black, common medium dark grey, very arenaceous and grading to SILTY SANDSTONE in part, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace fine quartz grains, trace nodular and disseminated pyrite, soft to moderately hard, dominantly firm, common soft, minor moderately hard, sub-blocky.		
3470.0 - 3480.0	70	**SANDSTONE:** Clear to translucent, abundant opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, common coarse, rare very coarse, moderately sorted, angular to rounded, dominantly sub-angular to sub-rounded, common angular and rounded, very fine to fine grains dominantly rounded, trace weak siliceous cement, rare pyrite cement, common white dispersive argillaceous matrix and grading to ARGILLACEOUS SANDSTONE, common to abundant nodular pyrite, common lithics and carbonaceous specks, trace calcareous fragments, trace glauconite or possibly chlorite, dominantly disaggregated, minor friable aggregates, poor visible porosity and fair inferred porosity, no hydrocarbon fluorescence.		
	30	**SILTSTONE:** as above		
3480.0 - 3490.0	50	**SANDSTONE:** As above, common pyrite, trace well rounded, trace quartz shards.		
	50	**SILTSTONE:** Dark grey to olive black, common medium dark grey and olive grey, dominantly very arenaceous and grading to SILTY SANDSTONE in part, minor argillaceous, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace fine quartz grains, trace nodular and disseminated pyrite, soft to moderately hard, dominantly firm, common soft, minor moderately hard, sub-blocky.		
3490.0 - 3500.0	50	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, fine to very coarse, dominantly fine to medium, minor coarse to very coarse, moderately sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace well rounded, trace weak siliceous cement, rare pyrite cement, white argillaceous matrix, common nodular pyrite, common lithics and carbonaceous specks, trace glauconite or possibly chlorite, dominantly disaggregated, minor friable to brittle aggregates, poor visible porosity and fair inferred porosity, no hydrocarbon fluorescence.		
	45	**SILTSTONE:** Dark grey to olive black, common medium dark grey and olive grey, dominantly arenaceous, common argillaceous and grading to SILTY CLAYSTONE, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace fine quartz grains, trace nodular and disseminated pyrite, soft to moderately hard, dominantly firm, common soft, minor moderately hard, sub-blocky.		
	5	**CLAYSTONE:** Medium grey, siliceous in part, micromicaceous, common silt in part and grading to SILTY CLAYSTONE, brittle, fissile to splintery.		
3500.0 - 3510.0	50	**SILTSTONE:** as above		
	45	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, minor coarse, rare very coarse, moderately sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak siliceous cement, minor pyrite cement, common argillaceous matrix, common to abundant nodular pyrite, common lithics and carbonaceous specks, trace glauconite or possibly chlorite, dominantly disaggregated, abundant friable to brittle aggregates, poor visible and inferred porosity, no hydrocarbon fluorescence.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3500.0 - 3510.0	5	**CLAYSTONE:** as above		
3510.0 - 3515.0	60	**SANDSTONE:** As above.		
	35	**SILTSTONE:** Dominantly olive grey, minor dark grey to olive black, rare medium dark grey, argillaceous and grading to SILTY CLAYSTONE, abundant arenaceous, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace fine quartz grains, trace nodular and disseminated pyrite, soft to moderately hard, dominantly firm to brittle, minor soft, minor moderately hard, sub-blocky.		
	5	**CLAYSTONE:** Medium grey, minor olive grey, siliceous in part, silty in part and grading to SILTY CLAYSTONE, micromicaceous, brittle, fissile to splintery, firm and sub-blocky where silty.		
3515.0 - 3520.0	50	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, abundant very fine, minor coarse, rare very coarse, moderately sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak siliceous cement, minor pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, minor nodular pyrite, common lithics and carbonaceous specks, trace glauconite or possibly chlorite, trace mica flakes, dominantly disaggregated, abundant friable to brittle aggregates, poor visible and inferred porosity, nil hydrocarbon fluorescence, mineral fluorescence. **FLUORESCENCE : (Trace)** Dull yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and nil crush cut, nil ring residue.		
	35	**SILTSTONE:** Dominantly olive grey, minor dark grey to olive black, argillaceous and grading to SILTY CLAYSTONE, minor arenaceous, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace nodular and disseminated pyrite, soft to brittle, dominantly firm to brittle, minor soft, sub-blocky.		
	15	**CLAYSTONE:** Medium grey to olive grey, silty in part and grading to SILTY CLAYSTONE, micromicaceous, trace carbonaceous laminae and material, soft to firm, sub-blocky to sub-fissile.		
3520.0 - 3525.0	60	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, abundant very fine, minor coarse, rare very coarse, moderately sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, common pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, abundant nodular pyrite, common lithics and carbonaceous specks, trace glauconite or possibly chlorite, trace mica flakes, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, hydrocarbon fluorescence, mineral fluorescence. **FLUORESCENCE : (5%)** Dominantly dull to minor moderately bright yellowish green patchy fluorescence associated with calcareous cemented grains, very slow milky white diffuse cut, moderately thick bluish white ring residue.		
	30	**SILTSTONE:** as above		
	10	**CLAYSTONE:** as above		
3525.0 - 3530.0	60	**SANDSTONE:** as above, common pyrite nodules, nil hydrocarbon fluorescence, mineral fluorescence. **FLUORESCENCE : (5%)** Dull yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and nil crush cut, nil ring residue.		
	25	**SILTSTONE:** as above		
	15	**CLAYSTONE:** as above		
3530.0 - 3535.0	50	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, abundant very fine, minor coarse, rare very coarse, moderately sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, minor pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, common nodular pyrite, common lithics and carbonaceous specks, trace glauconite or possibly chlorite, trace mica flakes, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, nil hydrocarbon fluorescence, mineral fluorescence. **FLUORESCENCE : (5%)** Dull to minor moderately bright yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and nil crush cut, nil ring residue.		
	35	**CLAYSTONE:** Medium grey to olive grey, silty in part and grading to SILTY CLAYSTONE, nil to in part common micromicaceous, minor carbonaceous laminae		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		and material, trace lithics, trace pyrite, soft to firm, brittle in part, sub-blocky to sub-fissile.		
	15	**SILTSTONE:** Dominantly olive grey, minor dark grey to olive black, argillaceous and grading to SILTY CLAYSTONE, rare carbonaceous, minor arenaceous, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace nodular and disseminated pyrite, soft to brittle, dominantly firm to brittle, minor soft, sub-blocky.		
3535.0 - 3540.0	70	**SANDSTONE:** As above.		
		FLUORESCENCE : (5%) Dull yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and nil crush cut, nil ring residue.		
	20	**CLAYSTONE:** as above		
	10	**SILTSTONE:** as above, trace glauconite.		
3540.0 - 3545.0	60	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, abundant very fine, minor coarse, rare very coarse, moderately sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, minor pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, common nodular pyrite, common lithics and carbonaceous specks, trace glauconite or possibly chlorite, trace mica flakes, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, nil hydrocarbon fluorescence, mineral fluorescence.		
		FLUORESCENCE : (10%) Dull to minor moderately bright yellowish green to pale orange patchy fluorescence associated with calcareous cemented grains, nil cut and nil crush cut, nil ring residue.		
	20	**CLAYSTONE:** Medium grey to olive grey, silty in part and grading to SILTY CLAYSTONE, nil to in part common micromicaceous, minor carbonaceous laminae and material, trace lithics, trace disseminated and nodular pyrite, weakly calcareous, soft to firm, brittle in part, sub-blocky to sub-fissile.		
	20	**SILTSTONE:** Dominantly olive grey, minor dark grey to olive black, argillaceous and grading to SILTY CLAYSTONE, minor arenaceous, common carbonaceous laminations and specks, minor micromicaceous, trace lithics, trace nodular and disseminated pyrite, trace mica flakes, trace glauconite, soft to brittle, dominantly firm to brittle, minor soft, sub-blocky.		
3545.0 - 3550.0	50	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, abundant very fine, minor coarse, rare very coarse, moderately sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, rare pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, minor nodular pyrite, common lithics and carbonaceous specks, trace glauconite or possibly chlorite, trace mica flakes, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, nil hydrocarbon fluorescence, mineral fluorescence.		
		FLUORESCENCE : (10%) Dull to minor moderately bright yellowish green to pale orange patchy fluorescence associated with calcareous cemented grains, nil cut and nil crush cut, nil ring residue.		
	30	**CLAYSTONE:** as above		
	20	**SILTSTONE:** as above		
3550.0 - 3555.0	70	**SANDSTONE:** as above, common pyrite.		
		FLUORESCENCE : (5%) Dull yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and nil crush cut, nil ring residue.		
	20	**CLAYSTONE:** as above		
	10	**SILTSTONE:** as above		
3555.0 - 3560.0	60	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, common very fine, minor coarse, rare very coarse, moderately sorted, aggregates are fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, rare pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, common nodular pyrite, common lithics and carbonaceous specks, trace glauconite, trace mica flakes, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, hydrocarbon fluorescence, mineral fluorescence.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		FLUORESCENCE : (5%) Dull yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and slow crush cut, moderately thick yellowish green ring residue.		
	25	**CLAYSTONE:** Olive grey, olive black in part, silty in part and grading to SILTY CLAYSTONE, siliceous in part, nil to in part common micromicaceous, minor carbonaceous material, trace lithics, trace disseminated and nodular pyrite, trace very fine glauconite, weakly calcareous, soft to firm, brittle in part, sub-blocky to sub-fissile, minor fissile where siliceous.		
	15	**SILTSTONE:** Olive grey, argillaceous and grading to SILTY CLAYSTONE, minor arenaceous, common carbonaceous laminations and material, minor micromicaceous, trace lithics, trace nodular and disseminated pyrite, trace very fine glauconite, soft to brittle, dominantly firm to brittle, minor soft, sub-blocky.		
3560.0 - 3570.0	50	**SANDSTONE:** as above		
		FLUORESCENCE : (5%) Dull yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and slow crush cut, moderately thick yellowish green film residue.		
	30	**CLAYSTONE:** as above		
	20	**SILTSTONE:** as above		
3570.0 - 3580.0	50	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to very coarse, dominantly fine to medium, common very fine, rare coarse, trace very coarse, moderately sorted, aggregates are fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, trace pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, minor nodular pyrite, common lithics and carbonaceous specks, trace glauconite, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, hydrocarbon fluorescence, mineral fluorescence.		
		FLUORESCENCE : (Trace) Dull yellowish green patchy fluorescence associated with calcareous cemented grains, nil cut and slow crush cut, moderately thick patchy yellowish green film residue.		
	25	**CLAYSTONE:** Olive grey, olive black in part, silty in part and grading to SILTY CLAYSTONE, siliceous in part, nil to in part common micromicaceous, minor carbonaceous material, trace lithics, trace disseminated and nodular pyrite, trace very fine glauconite, weakly calcareous, soft to firm, brittle in part, sub-blocky to sub-fissile, minor fissile where siliceous.		
	25	**SILTSTONE:** Olive grey, argillaceous and grading to SILTY CLAYSTONE, minor arenaceous, common carbonaceous laminations and material, minor micromicaceous, trace lithics, trace nodular and disseminated pyrite, trace very fine glauconite, soft to brittle, dominantly firm to brittle, minor soft, sub-blocky.		
3580.0 - 3590.0	55	**SILTSTONE:** Dominantly olive grey, olive black, dominantly arenaceous and grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY CLAYSTONE, common carbonaceous laminae and material, micromicaceous, common lithics, trace nodular and disseminated pyrite, trace very fine glauconite, common argillaceous matrix, soft to brittle, dominantly soft to firm, common brittle, sub-blocky.		
	30	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to coarse, dominantly fine, common very fine, abundant medium, rare coarse, moderately sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, trace pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, common silty matrix and grading to SILTY SANDSTONE, trace dispersive calcareous matrix, trace nodular pyrite, common lithics and carbonaceous specks, trace glauconite, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, no hydrocarbon fluorescence.		
	15	**CLAYSTONE:** Olive grey, olive black in part, silty and grading to SILTY CLAYSTONE, pyritic in part, common micromicaceous, minor carbonaceous laminae and material, common lithics, abundant disseminated pyrite, soft to firm, brittle in part, sub-blocky to sub-fissile.		
3590.0 - 3600.0	60	**SILTSTONE:** as above		
	30	**SANDSTONE:** as above		
	10	**CLAYSTONE:** as above		
3600.0 - 3610.0	50	**SILTSTONE:** Dominantly olive black, minor olive grey, arenaceous and grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		CLAYSTONE, common carbonaceous laminae and material, micromicaceous, common lithics, trace nodular and disseminated pyrite, trace very fine glauconite, common argillaceous matrix, soft to brittle, dominantly soft to firm, common brittle, sub-blocky.		
	50	**SANDSTONE:** Clear to translucent, common opaque, medium light grey to medium grey aggregates, very fine to coarse, dominantly fine to medium, common very fine, rare coarse, well sorted, aggregates are very fine to fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, trace pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, common silty matrix and grading to SILTY SANDSTONE, trace dispersive calcareous matrix, trace nodular pyrite, common lithics and carbonaceous specks, trace glauconite, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, no hydrocarbon fluorescence.		
3610.0 - 3620.0	60	**SILTSTONE:** as above		
	40	**SANDSTONE:** as above		
3620.0 - 3630.0	50	**SANDSTONE:** As above, common pyrite cement.		
	50	**SILTSTONE:** as above		
3630.0 - 3640.0	60	**SANDSTONE:** Clear to translucent, common opaque, medium dark grey to medium grey aggregates, fine to very coarse, dominantly fine to medium, common coarse, rare very coarse, well sorted, aggregates are fine and well sorted, sub-angular to rounded, dominantly sub-angular to sub-rounded, common rounded, trace weak to in part strong siliceous cement, common pyrite cement, trace strong calcareous cement with fissile aggregates, common argillaceous cement/matrix, common silty matrix and grading to SILTY SANDSTONE, trace dispersive calcareous matrix, common to abundant nodular pyrite, common lithics and carbonaceous specks, trace glauconite, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, no hydrocarbon fluorescence.		
	40	**SILTSTONE:** Dominantly olive black, minor olive grey, arenaceous and grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY CLAYSTONE, common carbonaceous laminae and material, micromicaceous, common lithics, trace nodular and disseminated pyrite, trace very fine glauconite, common argillaceous matrix, soft to brittle, dominantly soft to firm, common brittle, sub-blocky.		
3640.0 - 3650.0	70	**SANDSTONE:** as above, trace dolomite cement.		
	30	**SILTSTONE:** as above, trace mica flakes.		
3650.0 - 3660.0	70	**SANDSTONE:** Clear to translucent, common opaque, medium dark grey to medium grey aggregates, very fine to very coarse, dominantly medium to coarse, common very fine, abundant fine, common very coarse, poorly sorted, aggregates are fine and well sorted, angular to rounded, dominantly sub-angular to sub-rounded, common rounded, minor angular, trace weak to in part strong siliceous cement, minor pyrite cement, trace strong calcareous cement with fissile aggregates, trace dolomitic cement, common argillaceous cement/matrix, common silty matrix and grading to SILTY SANDSTONE, trace dispersive calcareous matrix, minor nodular pyrite, common lithics and carbonaceous specks, trace glauconite, trace quartz shards, dominantly disaggregated, abundant friable to hard aggregates, poor visible and fair inferred porosity, no hydrocarbon fluorescence.		
	30	**SILTSTONE:** Olive black, dominantly arenaceous and grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY CLAYSTONE, common carbonaceous laminae and material, micromicaceous, abundant lithics, trace nodular and disseminated pyrite, trace very fine glauconite, common argillaceous matrix, soft to brittle, dominantly soft to firm, common brittle, sub-blocky.		
3660.0 - 3670.0	80	**SANDSTONE:** as above		
	20	**SILTSTONE:** as above		
3670.0 - 3680.0	70	**SANDSTONE:** clear to translucent, frosted to off white, generally medium to very coarse, dominantly medium, minor very fine to fine grains, angular to sub-angular, common angular fractured very coarse grains, poorly sorted, common strong siliceous cement, trace weak calcareous, common strong pyritic cement and off white argillaceous matrix in very fine to fine aggregates, common to abundant nodular pyrite, generally disaggregated, very hard very fine to fine grained aggregates, good inferred porosity, no hydrocarbon fluorescence.		
	30	**SILTSTONE:** Olive black, brownish grey, olive grey, dominantly arenaceous and		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY CLAYSTONE, common carbonaceous laminations and specks, common micromicaceous, abundant lithics, common disseminated pyrite, trace very fine glauconite, moderately hard to hard, sub-blocky.		
3680.0 - 3690.0	70	**SANDSTONE:** as above, dominantly fine to medium grains.		
	30	**SILTSTONE:** as above		
3690.0 - 3700.0	85	**SANDSTONE:** clear to translucent, frosted to off white, generally very fine to medium, dominantly medium, common coarse to very coarse grains, angular to sub-angular, common angular fractured very coarse grains, poorly sorted, common strong siliceous cement, trace weak calcareous, common strong pyritic cement and off white argillaceous matrix in very fine to fine aggregates, localised light brown silty matrix in very fine grained aggregates and grading to an ARENACEOUS SILTSTONE, common to abundant nodular pyrite, common lithics, generally disaggregated, very hard very fine to fine grained aggregates, good inferred porosity, no hydrocarbon fluorescence.		
	15	**SILTSTONE:** light to medium, brownish grey, olive grey, dominantly arenaceous and grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY CLAYSTONE, common carbonaceous laminations and specks, common micromicaceous, abundant lithics, minor disseminated pyrite, trace very fine glauconite, moderately hard to hard, sub-blocky.		
3700.0 - 3710.0	80	**SANDSTONE:** as above		
	20	**SILTSTONE:** as above		
3710.0 - 3720.0	80	**SANDSTONE:** as above, increasingly common angular fractured quartzite shards.		
	20	**SILTSTONE:** as above, increasingly common carbonaceous micro laminations, occasional sub-fissile.		
3720.0 - 3730.0	85	**SANDSTONE:** Off white, translucent and frosted, very fine to very coarse, dominantly fine to medium, angular to sub-angular, poorly sorted, common strong siliceous cement, minor weak calcareous cement and locally common strong pyritic cement, common to abundant off white argillaceous matrix where very fine to fine grained aggregates, abundant angular fractured very coarse shards with occasional fused grain boundaries, abundant nodular pyrite, occasional lithics and carbonaceous specks, very poor visible porosity in hard to very hard fine grained aggregates, generally fair to good inferred porosity, no hydrocarbon fluorescence.		
	15	**SILTSTONE:** light to medium, brownish grey, olive grey, dominantly arenaceous and grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY CLAYSTONE, common carbonaceous micro laminations and specks, commonly micromicaceous, abundant lithics, minor disseminated pyrite, trace very fine glauconite, moderately hard to hard, sub-blocky, minor sub-fissile.		
3730.0 - 3740.0	80	**SANDSTONE:** as above		
	20	**SILTSTONE:** as above		
3740.0 - 3750.0	80	**SANDSTONE:** Off white, translucent and frosted, very fine to very coarse, dominantly fine to medium, angular to sub-angular, poorly sorted, common strong siliceous cement, minor weak calcareous cement and locally common strong pyritic cement, common to abundant off white argillaceous matrix where very fine to fine grained aggregates, abundant angular fractured very coarse shards with occasional fused grain boundaries, abundant nodular pyrite, occasional lithics and carbonaceous specks, very poor visible porosity in hard to very hard fine grained aggregates, generally fair to good inferred porosity, no hydrocarbon fluorescence.		
	20	**SILTSTONE:** light to medium, brownish grey, olive grey, dominantly arenaceous and grading to SILTY SANDSTONE in part, argillaceous in part and grading to SILTY CLAYSTONE, common carbonaceous micro laminations and specks, commonly micromicaceous, abundant lithics, minor disseminated pyrite, trace very fine glauconite, moderately hard to hard, sub-blocky, minor sub-fissile.		
3750.0 - 3760.0	75	**SANDSTONE:** as above		
	23	**SILTSTONE:** as above		
	2	**CLAYSTONE:** light bluish green, silicic, occasional very fine lithics, trace micromicaceous, moderately hard to hard, very hard in part, sub-fissile.		
3760.0 - 3770.0	80	**SANDSTONE:** as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3760.0 - 3770.0	18	**SILTSTONE:** as above		
	2	**CLAYSTONE:** as above		
3770.0 - 3780.0	74	**SANDSTONE:** Off white, translucent and frosted, very fine to very coarse, dominantly fine to medium, angular to sub-angular, poorly sorted, common strong siliceous cement, minor weak calcareous cement and locally common strong pyritic cement, common to abundant off white argillaceous matrix with common carbonaceous micro laminations where very fine to fine grained aggregates, abundant angular fractured very coarse shards with occasional fused grain boundaries, abundant nodular pyrite, occasional lithics and carbonaceous specks, trace rock flour and bit metamorphics, very poor visible porosity in hard to very hard fine grained aggregates, generally fair to good inferred porosity, no hydrocarbon fluorescence.		
	25	**SILTSTONE:** light to medium brown, medium brown, olive grey, pale grey, arenaceous and common grading to a very fine SILTY SANDSTONE, common arenaceous laminations, common micromicaceous, minor carbonaceous specks, moderately hard to hard, sub-blocky to sub-fissile.		
	1	**CLAYSTONE:** as above		
3780.0 - 3790.0	75	**SANDSTONE:** as above, rare muscovite micas.		
	20	**SILTSTONE:** as above, common medium to dark brown with common to abundant fine to coarse glauconite grains.		
	5	**CLAYSTONE:** light bluish green, silicic, occasional very fine lithics, trace micromicaceous, moderately hard to hard, very hard in part, sub-fissile.		
3790.0 - 3800.0	65	**SANDSTONE:** as above, dominantly medium to very coarse grains.		
	32	**SILTSTONE:** light to medium brown, olive grey, pale grey, medium to dark brown with common to abundant fine to coarse glauconite grains. arenaceous and common grading to a very fine SILTY SANDSTONE, common arenaceous laminations, common micromicaceous, minor carbonaceous specks, moderately hard to hard, sub-blocky to sub-fissile.		
	3	**CLAYSTONE:** as above		
3800.0 - 3810.0	80	**SANDSTONE:** Off white, translucent and frosted, very fine to very coarse, dominantly medium, angular to sub-angular, poorly sorted, common strong siliceous cement, minor weak calcareous cement and locally minor strong pyritic cement, common to abundant off white argillaceous matrix with common carbonaceous micro laminations where very fine to fine grained aggregates, abundant angular fractured very coarse shards with occasional fused grain boundaries, abundant nodular pyrite, occasional lithics and carbonaceous specks, trace rock flour and bit metamorphics, very poor visible porosity in hard to very hard fine grained aggregates, generally fair to good inferred porosity, no hydrocarbon fluorescence.		
	18	**SILTSTONE:** as above		
	2	**CLAYSTONE:** light bluish green, silicic, occasional very fine lithics, trace micromicaceous, moderately hard to hard, very hard in part, sub-fissile.		
3810.0 - 3814.0	84	**SANDSTONE:** as above, increasingly common very coarse fractured quartz grains and bit metamorphics.		
	15	**SILTSTONE:** as above		
	1	**CLAYSTONE:** as above TD sample		