



**Apache Energy**  
**Cuttings Descriptions Report**

Well Name :		Elver-1	Print Date		6/01/2009
Wellsite Geologist(s) :		J Eastwood T Lobo			
Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)	
<b>Main</b>					
1741.7 - 1745.0	50	<b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace medium to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.			
	30	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky.			
	20	<b>CALCILUTITE:</b> very light grey to light greenish grey, off white, trace very fine glauconite, trace light brown hard dolomite fragments, soft to firm, amorphous to sub blocky.			
		Start drilling 311 mm hole from 1741.7 mMDRT at 0430 hrs, 27 December 2008. 3.3 metre bagged sample. 30% cement contamination in sample.			
1745.0 - 1750.0	50	<b>CALCARENITE:</b> as above			
	30	<b>CALCILUTITE:</b> as above			
	20	<b>CALCISILTITE:</b> as above			
		5.0 metre spot samples (not bagged) from 1745.0 m to 1770.0 mMDRT due to work at the shakers. 10% cement contamination in sample.			
1750.0 - 1755.0	40	<b>CALCILUTITE:</b> as above			
	40	<b>CALCISILTITE:</b>			
	20	<b>CALCARENITE:</b> as above			
		5% cement contamination in sample.			
1755.0 - 1760.0	40	<b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, soft to firm, amorphous to sub blocky, sub fissile in part.			
	30	<b>CALCISILTITE:</b> as above			
	25	<b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace medium sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.			
	5	<b>DOLOMITE:</b> light brown, dark yellowish brown, crystalline, very calcareous, grades to DOLOMITIC LIMESTOME, moderately hard to hard, brittle.			
		Trace cement contamination in sample.			
1760.0 - 1765.0	65	<b>CALCILUTITE:</b> as above, trace light brown hard calcite fragments.	41	1	
	25	<b>CALCISILTITE:</b> as above			
	10	<b>CALCARENITE:</b> as above			
		Trace cement contamination in sample.			
1765.0 - 1770.0	60	<b>CALCILUTITE:</b> as above			
	30	<b>CALCISILTITE:</b> as above			
	10	<b>CALCARENITE:</b> as above			

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		Trace cement contamination in sample.		
1770.0 - 1775.0	55 30 15	<b>CALCILUTITE:</b> as above <b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky. <b>CALCARENITE:</b> as above  5.0 metre bagged samples from 1770.0 m to 1930.0 mMDRT. No cement contamination in sample.		
1775.0 - 1780.0	50 40 10	<b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace light brown hard dolomite fragments, soft to firm, amorphous to sub blocky, sub fissile in part. <b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace fine to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
1780.0 - 1785.0	60 30 10	<b>CALCILUTITE:</b> as above <b>CALCILUTITE:</b> <b>CALCARENITE:</b> as above		
1785.0 - 1790.0	55 40 5	<b>CALCILUTITE:</b> as above <b>CALCISILTITE:</b> <b>CALCARENITE:</b> as above	44	1
1790.0 - 1795.0	50 45 5	<b>CALCISILTITE:</b> <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace forams, trace ooids, trace light brown hard dolomite fragments, soft to firm, amorphous to sub blocky, sub fissile in part. <b>CALCARENITE:</b> as above		
1795.0 - 1800.0	45 45 10	<b>CALCILUTITE:</b> as above <b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky. <b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace fine to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
1800.0 - 1805.0	50 45 5	<b>CALCISILTITE:</b> <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace forams, trace ooids, trace light brown hard dolomite fragments, soft to firm, amorphous to sub blocky, sub fissile in part. <b>CALCARENITE:</b> as above	49	2
1805.0 - 1810.0	50 45 5	<b>CALCISILTITE:</b> <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
1810.0 - 1815.0	45 45 10	<b>CALCISILTITE:</b> <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
1815.0 - 1820.0	50 45 5	<b>CALCISILTITE:</b> <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1820.0 - 1825.0	50	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky.		
	40	<b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky.		
	10	<b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace fine to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
1825.0 - 1830.0	55	<b>CALCISILTITE:</b>	41	2
	35	<b>CALCILUTITE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
1830.0 - 1835.0	65	<b>CALCISILTITE:</b>		
	30	<b>CALCILUTITE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
1835.0 - 1840.0	60	<b>CALCISILTITE:</b>		
	35	<b>CALCILUTITE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
1840.0 - 1845.0	70	<b>CALCISILTITE:</b>		
	25	<b>CALCILUTITE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
1845.0 - 1850.0	75	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky.		
	20	<b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky.		
	5	<b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace fine to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
1850.0 - 1855.0	70	<b>CALCISILTITE:</b>	44	3
	20	<b>CALCILUTITE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
1855.0 - 1860.0	70	<b>CALCISILTITE:</b>		
	20	<b>CALCILUTITE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
1860.0 - 1865.0	70	<b>CALCISILTITE:</b>		
	15	<b>CALCARENITE:</b> as above		
	15	<b>CALCILUTITE:</b> as above		
1865.0 - 1870.0	75	<b>CALCISILTITE:</b>		
	15	<b>CALCILUTITE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
1870.0 - 1875.0	80	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky.		
	10	<b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace fine to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1870.0 - 1875.0	10	<b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky.		
1875.0 - 1880.0	80 10 10	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCILUTITE:</b> as above	45	3
1880.0 - 1885.0	80 15 5	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
1885.0 - 1890.0	85 10 5	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
1890.0 - 1895.0	85 10 5	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
1895.0 - 1900.0	90 5 5	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky. <b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace fine to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence. <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky.		
1900.0 - 1905.0	80 15 5	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCILUTITE:</b> as above		
1905.0 - 1910.0	80 10 10	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCILUTITE:</b> as above	45	3
1910.0 - 1915.0	75 15 10	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCILUTITE:</b> as above		
1915.0 - 1920.0	80 10 10	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCILUTITE:</b> as above		
1920.0 - 1925.0	75 15 10	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to CALCILUTITE, trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky <b>CALCARENITE:</b> very light grey to light greenish grey, off white to pale yellow orange, very fine to fine, well sorted, trace fine to coarse sub angular quartz grains, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence. <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE, trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky.		
1925.0 - 1930.0	70 20 10	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above	57	3

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
1930.0 - 1940.0	70 15 15	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCILUTITE:</b> as above  10.0 metre samples from 1930.0 m to 2450.0 mMDRT due to high ROP.		
1940.0 - 1950.0	75 20 5	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to <b>CALCILUTITE</b> , trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky. <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to <b>CALCISILTITE</b> , trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky. <b>CALCARENITE:</b> very light grey to light greenish grey, off white, very fine to fine, well sorted, trace very fine to fine sub rounded to sub angular quartz grains, silty in part grading to <b>CALCISILTITE</b> , trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.	61	3
1950.0 - 1960.0	70 25 5	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
1960.0 - 1970.0	70 20 10	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
1970.0 - 1980.0	75 15 10	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above	58	3
1980.0 - 1990.0	75 20 5	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to <b>CALCISILTITE</b> , increasing clay content in part grading to <b>CALCAREOUS CLAYSTONE</b> , trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky. <b>CALCARENITE:</b> as above		
1990.0 - 2000.0	70 20 10	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to <b>CALCILUTITE</b> , trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky. <b>CALCARENITE:</b> very light grey to light greenish grey, off white, very fine to fine, well sorted, trace to common very fine to fine sub rounded to sub angular quartz grains, silty in part grading to <b>CALCISILTITE</b> , trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence. <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to <b>CALCISILTITE</b> , increasing clay content in part grading to <b>CALCAREOUS CLAYSTONE</b> , trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky.	34	3
2000.0 - 2010.0	70 20 10	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		
2010.0 - 2020.0	75 20 5	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above	76	4
2020.0 - 2030.0	85 10 5	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2030.0 - 2040.0	70 20 10	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> as above	66	5
2040.0 - 2050.0	70 20 5 5	<b>CALCISILTITE:</b> medium light grey to light olive grey, light greenish grey, argillaceous in part grading to <b>CALCILUTITE</b> , trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky. <b>CALCILUTITE:</b> very light grey to light greenish grey, off white, silty in part grading to <b>CALCISILTITE</b> , increasing clay content in part grading to <b>CALCAREOUS CLAYSTONE</b> , trace very fine glauconite, soft to firm, amorphous to sub blocky. <b>CALCAREOUS CLAYSTONE:</b> medium grey to light olive grey, very calcareous grading to <b>CALCILUTITE</b> , trace micromicaceous, trace very fine glauconite, silty, soft to dominantly firm, sub blocky to blocky. <b>CALCARENITE:</b> very light grey to light greenish grey, off white, very fine to fine, well sorted, trace to common very fine to fine sub rounded to sub angular quartz grains, silty in part grading to <b>CALCISILTITE</b> , trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2050.0 - 2060.0	60 25 15 0	<b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> trace, as above	51	6
2060.0 - 2070.0	60 20 20 0	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above <b>CALCARENITE:</b> trace, as above		
2070.0 - 2080.0	50 30 20	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above	49	2
2080.0 - 2090.0	55 30 15	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above		
2090.0 - 2100.0	40 30 30	<b>CALCISILTITE:</b> light grey to light olive grey, light greenish grey, off white, argillaceous in part grading to <b>CALCILUTITE</b> , trace very fine sand grains, trace very fine glauconite, trace micromicaceous, soft to firm, sub fissile to sub blocky. <b>CALCAREOUS CLAYSTONE:</b> medium grey to light olive grey, very calcareous grading to <b>CALCILUTITE</b> , trace micromicaceous, trace very fine glauconite, silty, soft to dominantly firm, sub blocky to blocky. <b>CALCILUTITE:</b> very light grey to light olive grey, off white, silty in part grading to <b>CALCISILTITE</b> , increasing clay content in part grading to <b>CALCAREOUS CLAYSTONE</b> , trace very fine glauconite, soft to firm, amorphous to sub blocky.	42	3
2100.0 - 2110.0	50 25 25	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above		
2110.0 - 2120.0	35 35 30	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above	44	3
2120.0 - 2130.0	40 30	<b>CALCISILTITE:</b> light grey to light olive grey, grades to <b>CALCILUTITE</b> , trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to light olive grey, abundantly calcareous grading to <b>CALCILUTITE</b> , trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2120.0 - 2130.0	30	<b>CALCILUTITE:</b> very light grey to light olive grey, silty in part grading to CALCISILTITE, argillaceous in part grading to CALCAREOUS CLAYSTONE, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		
2130.0 - 2140.0	40 30 30	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above	61	4
2140.0 - 2150.0	40 30 30	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above		
2150.0 - 2160.0	40 40 20	<b>CALCISILTITE:</b> light grey to light olive grey, grades to CALCILUTITE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky. <b>CALCILUTITE:</b> very light grey to light olive grey, silty in part grading to CALCISILTITE, argillaceous in part grading to CALCAREOUS CLAYSTONE, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.	54	3
2160.0 - 2170.0	40 40 20	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCILUTITE:</b> as above		
2170.0 - 2180.0	50 40 10	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above	61	4
2180.0 - 2190.0	60 30 10	<b>CALCAREOUS CLAYSTONE:</b> light grey to light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCILUTITE:</b> very light grey to light olive grey, silty in part grading to CALCISILTITE, argillaceous in part grading to CALCAREOUS CLAYSTONE, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.		
2190.0 - 2200.0	60 30 10	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> as above	45	1
2200.0 - 2210.0	70 30 0	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCILUTITE:</b> trace, as above		
2210.0 - 2220.0	60 40	<b>CALCAREOUS CLAYSTONE:</b> light grey to light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.	46	1
2220.0 - 2230.0	80 20	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2230.0 - 2240.0	80 20	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above	38	15
2240.0 - 2250.0	80 20	<b>CALCAREOUS CLAYSTONE:</b> light grey to light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.		
2250.0 - 2260.0	60 40	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above	33	20
2260.0 - 2270.0	60 40	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above		
2270.0 - 2280.0	50 50	<b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.	35	20
2280.0 - 2290.0	60 40	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above		
2290.0 - 2300.0	70 30	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above	46	12
2300.0 - 2310.0	75 20 5	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCARENITE:</b> light grey to medium light grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine arenaceous, trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2310.0 - 2320.0	75 20 5	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above	34	7
2320.0 - 2330.0	75 20 5	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCARENITE:</b>		
2330.0 - 2340.0	90 10	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky. <b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.	30	7
2340.0 - 2350.0	90 10	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above		
2350.0 - 2360.0	80 20	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above	41	21



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2360.0 - 2370.0	80	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.		
	20	<b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.		
2370.0 - 2380.0	80	<b>CALCAREOUS CLAYSTONE:</b> as above	38	16
	20	<b>CALCISILTITE:</b> as above		
2380.0 - 2390.0	80	<b>CALCAREOUS CLAYSTONE:</b> as above		
	20	<b>CALCISILTITE:</b> as above		
2390.0 - 2400.0	60	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.	38	14
	40	<b>CALCISILTITE:</b> very light grey to light olive grey, grades to CALCILUTITE, commonly silty, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.		
2400.0 - 2410.0	60	<b>CALCAREOUS CLAYSTONE:</b> as above		
	40	<b>CALCISILTITE:</b> as above		
2410.0 - 2420.0	70	<b>CALCAREOUS CLAYSTONE:</b> as above	39	19
	30	<b>CALCISILTITE:</b> as above		
2420.0 - 2430.0	70	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.		
	30	<b>CALCISILTITE:</b> very light grey to light olive grey, abundantly silty grading to SILTY CALCILUTITE and CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, dominantly soft to firm, amorphous to sub blocky.		
2430.0 - 2440.0	70	<b>CALCAREOUS CLAYSTONE:</b> as above	41	13
	30	<b>CALCISILTITE:</b> as above		
2440.0 - 2450.0	70	<b>CALCAREOUS CLAYSTONE:</b> as above		
	30	<b>CALCISILTITE:</b> as above		
2450.0 - 2455.0	80	<b>CALCAREOUS CLAYSTONE:</b> as above		
	20	<b>CALCISILTITE:</b> as above		
		5.0 metre samples from 2450.0 m to 2730.0 mMDRT.		
2455.0 - 2460.0	80	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.	48	13
	20	<b>CALCISILTITE:</b> very light grey to light olive grey, abundantly silty grading to SILTY CALCILUTITE and CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		
2460.0 - 2465.0	60	<b>CALCAREOUS CLAYSTONE:</b> as above		
	40	<b>CALCISILTITE:</b> as above		
2465.0 - 2470.0	60	<b>CALCISILTITE:</b> as above		
	40	<b>CALCAREOUS CLAYSTONE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2470.0 - 2475.0	80 20	<b>CALCISILTITE:</b> as above, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> as above		
2475.0 - 2480.0	80 20	<b>CALCISILTITE:</b> very light grey to light olive grey, abundantly silty grading to SILTY CALCILUTITE and CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		
2480.0 - 2485.0	60 40	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2485.0 - 2490.0	80 20	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above	38	9
2490.0 - 2495.0	80 20	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2495.0 - 2500.0	95 5	<b>CALCISILTITE:</b> very light grey to light olive grey, abundantly silty grading to SILTY CALCILUTITE and CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		
2500.0 - 2505.0	90 10	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above  Walnut mud additive seen in samples from 2500.0 to 2515.0 mMDRT. Walnut (mud additive) pumped down hole at 2504.0 mMDRT.		
2505.0 - 2510.0	90 10	<b>CALCISILTITE:</b> as above. <b>CALCAREOUS CLAYSTONE:</b> as above.		
2510.0 - 2515.0	90 10	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2515.0 - 2520.0	90 10	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above	43	13
2520.0 - 2525.0	85 15	<b>CALCISILTITE:</b> very light grey to light olive grey, abundantly silty grading to SILTY CALCILUTITE and CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		
2525.0 - 2530.0	90 10	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2530.0 - 2535.0	80 20	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2535.0 - 2540.0	80 20	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2540.0 - 2545.0	75	<b>CALCISILTITE:</b> as above		
	20	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		
	5	<b>CALCARENITE:</b> light grey to medium light grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2545.0 - 2550.0	75	<b>CALCISILTITE:</b> very light grey to light olive grey, abundantly silty grading to SILTY CALCILUTITE and CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky, trace blocky.	46	10
	15	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to firm, amorphous to sub blocky.		
	10	<b>CALCARENITE:</b> as above		
2550.0 - 2555.0	70	<b>CALCISILTITE:</b> as above		
	20	<b>CALCAREOUS CLAYSTONE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
2555.0 - 2560.0	65	<b>CALCISILTITE:</b> as above		
	25	<b>CALCAREOUS CLAYSTONE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
2560.0 - 2565.0	70	<b>CALCISILTITE:</b> as above		
	20	<b>CALCAREOUS CLAYSTONE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
2565.0 - 2570.0	75	<b>CALCISILTITE:</b> as above		
	20	<b>CALCAREOUS CLAYSTONE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
2570.0 - 2575.0	75	<b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, soft to firm, amorphous to sub blocky, trace blocky.		
	15	<b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky.		
	10	<b>CALCARENITE:</b> light grey to medium light grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2575.0 - 2580.0	80	<b>CALCISILTITE:</b> as above	47	11
	15	<b>CALCAREOUS CLAYSTONE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
		Walnut mud additive seen in samples from 2580.0 to 2585.0 mMDRT.		
2580.0 - 2585.0	80	<b>CALCISILTITE:</b> as above		
	20	<b>CALCAREOUS CLAYSTONE:</b> as above		
	0	<b>CALCARENITE:</b> as above		
2585.0 - 2590.0	80	<b>CALCISILTITE:</b> as above		
	15	<b>CALCAREOUS CLAYSTONE:</b> as above		
	5	<b>CALCARENITE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2590.0 - 2595.0	75 20 5	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> as above		
2595.0 - 2600.0	77 20 3	<b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, soft to firm, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky. <b>CALCARENITE:</b> light grey to medium light grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2600.0 - 2605.0	80 15 5	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> as above		
2605.0 - 2610.0	80 15 5	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> as above, trace ooids, trace forams.	46	11
2610.0 - 2615.0	85 10 5	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> as above		
2615.0 - 2620.0	85 10 5	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> as above		
2620.0 - 2625.0	90 7 3	<b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, soft to firm, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky. <b>CALCARENITE:</b> light grey to medium light grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2625.0 - 2630.0	85 12 3	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> as above		
2630.0 - 2635.0	90 10 0	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> trace, as above		
2635.0 - 2640.0	85 15 0	<b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCARENITE:</b> as above  Walnut mud additive seen in samples from 2640.0 to 2650.0 mMDRT.	46	12
2640.0 - 2645.0	80 10	<b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, soft to firm, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	10	fine glauconite, soft to firm, amorphous to sub blocky. <b>CALCARENITE:</b> light grey to medium light grey, light olive grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2645.0 - 2650.0	75 15 10	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> light grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky.		
2650.0 - 2655.0	65 25 10	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2655.0 - 2660.0	50 45 5	<b>CALCARENITE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2660.0 - 2665.0	55 40 5	<b>CALCARENITE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2665.0 - 2670.0	60 35 5	<b>CALCARENITE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above	45	11
2670.0 - 2675.0	65 30 5	<b>CALCARENITE:</b> light grey to medium light grey, light olive grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, moderately hard, poor visible porosity, no hydrocarbon fluorescence. <b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, soft to firm, amorphous to sub blocky, trace blocky. <b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky.		
2675.0 - 2680.0	75 20 5	<b>CALCARENITE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2680.0 - 2685.0	50 45 5	<b>CALCISILTITE:</b> as above <b>CALCARENITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2685.0 - 2690.0	50 45 5	<b>CALCARENITE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2690.0 - 2695.0	55 40 5	<b>CALCARENITE:</b> as above <b>CALCISILTITE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above		
2695.0 - 2700.0	60 35	<b>CALCARENITE:</b> light grey to medium light grey, light olive grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, moderately hard, poor visible porosity, no hydrocarbon fluorescence. <b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, soft to firm, amorphous to sub blocky, trace blocky.	43	10

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2695.0 - 2700.0	5	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky.	43	10
2700.0 - 2705.0	55	<b>CALCARENITE:</b> as above		
	40	<b>CALCISILTITE:</b> as above		
	5	<b>CALCAREOUS CLAYSTONE:</b> as above		
2705.0 - 2710.0	50	<b>CALCISILTITE:</b> as above		
	45	<b>CALCARENITE:</b> as above		
	5	<b>CALCAREOUS CLAYSTONE:</b> as above		
2710.0 - 2715.0	75	<b>CALCISILTITE:</b> as above		
	15	<b>CALCARENITE:</b> as above		
	10	<b>CALCAREOUS CLAYSTONE:</b> as above		
2715.0 - 2720.0	75	<b>CALCISILTITE:</b> as above		
	15	<b>CALCAREOUS CLAYSTONE:</b> as above		
	10	<b>CALCARENITE:</b> as above		
2720.0 - 2725.0	60	<b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace carbonaceous specks, soft to firm, amorphous to sub blocky, trace blocky.		
	30	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky.		
	10	<b>CALCARENITE:</b> light grey to medium light grey, light olive grey, very fine to fine, well sorted, silty in part grading to CALCISILTITE, trace very fine glauconitic grains, friable to moderately hard, poor visible porosity, no hydrocarbon fluorescence.		
2725.0 - 2730.0	70	<b>CALCISILTITE:</b> as above, common carbonaceous specks	42	9
	25	<b>CALCAREOUS CLAYSTONE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
2730.0 - 2740.0	50	<b>CALCISILTITE:</b> as above		
	45	<b>CALCAREOUS CLAYSTONE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
		10.0 metre samples from 2730.0 m to 2860.0 mMDRT due to high ROP.		
2740.0 - 2750.0	50	<b>CALCISILTITE:</b> as above		
	45	<b>CALCAREOUS CLAYSTONE:</b> as above		
	5	<b>CALCARENITE:</b> as above		
2750.0 - 2760.0	55	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky.	44	8
	40	<b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace carbonaceous specks, soft to firm, amorphous to sub blocky, trace blocky.		
	0	<b>CALCARENITE:</b> trace - as above.		
2760.0 - 2770.0	70	<b>CALCAREOUS CLAYSTONE:</b> as above		
	30	<b>CALCISILTITE:</b> as above		
2770.0 - 2780.0	70	<b>CALCAREOUS CLAYSTONE:</b> as above		
	30	<b>CALCISILTITE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
2780.0 - 2790.0	80 20	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above	41	6
2790.0 - 2800.0	90 10	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, soft to firm, amorphous to sub blocky. <b>CALCISILTITE:</b> very light grey to light olive grey, very silty grading to CALCAREOUS SILTSTONE, trace very finely arenaceous, trace very fine glauconite, trace micromicaceous, trace carbonaceous specks, soft to firm, amorphous to sub blocky, trace blocky.		
2800.0 - 2810.0	90 10	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> as above	38	6
2810.0 - 2820.0	90 0	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> trace - as above		
2820.0 - 2830.0	100 0	<b>CALCAREOUS CLAYSTONE:</b> as above <b>CALCISILTITE:</b> trace - as above	38	7
2830.0 - 2840.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to dominantly firm, amorphous to sub blocky.		
2840.0 - 2850.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	33	5
2850.0 - 2860.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
2860.0 - 2880.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to dominantly firm, amorphous to sub blocky.  20.0 metre samples from 2860.0 m to 3060.0 mMDRT due to high ROP.	38	8
2880.0 - 2900.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	29	6
2900.0 - 2920.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	32	6
2920.0 - 2940.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to dominantly firm, amorphous to sub blocky.	28	5
2940.0 - 2960.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	18	1
2960.0 - 2980.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	20	7
2980.0 - 3000.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to dominantly firm, amorphous to sub blocky.	15	12
3000.0 - 3020.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	31	5
3020.0 - 3040.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	20	8
3040.0 - 3060.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to dominantly firm, amorphous to sub blocky.	18	12
3060.0 - 3070.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace very fine to medium carbonaceous specks  10.0 metre samples from 3060.0 m to 3160.0 mMDRT due to high ROP.	24	6

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3070.0 - 3080.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3080.0 - 3090.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	24	6
3090.0 - 3100.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, soft to dominantly firm, amorphous to sub blocky.		
3100.0 - 3110.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	28	7
3110.0 - 3120.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3120.0 - 3130.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	29	9
3130.0 - 3140.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, trace microfossils (ostracods), soft to dominantly firm, amorphous to sub blocky.		
3140.0 - 3150.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace microfossils (ostracods)	24	7
3150.0 - 3160.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace microfossils (ostracods)		
3160.0 - 3165.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace microfossils (ostracods)		
		5.0 metre bagged samples from 3160.0 m to 3245.0 mMDRT.		
3165.0 - 3170.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace microfossils (ostracods).	20	5
3170.0 - 3175.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace very fine carbonaceous specks, trace ooids, trace microfossils (ostracods), soft to dominantly firm, amorphous to sub blocky.		
3175.0 - 3180.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace ooids, trace microfossils (ostracods).		
3180.0 - 3185.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace ooids, trace microfossils (ostracods).		
3185.0 - 3190.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace ooids, trace microfossils (ostracods).	28	5
3190.0 - 3195.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3195.0 - 3200.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace very fine carbonaceous specks, trace ooids, trace microfossils (ostracods), soft to dominantly firm, amorphous to sub blocky.		
3200.0 - 3205.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace disseminated pyrite.		
3205.0 - 3210.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above	29	7
3210.0 - 3215.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace disseminated pyrite		
3215.0 - 3220.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace disseminated pyrite, trace pyrite nodules.		
3220.0 - 3225.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules, trace very fine carbonaceous specks, trace ooids, trace microfossils (ostracods), soft to dominantly firm, amorphous to sub blocky.		
3225.0 - 3230.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace to common pyrite nodules.	27	8
3230.0 - 3235.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace to common pyrite nodules.		
3235.0 - 3240.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace to common pyrite nodules.		
3240.0 - 3245.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace to common pyrite nodules.		



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3245.0 - 3248.9	100	<p><b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules, trace very fine carbonaceous specks, trace ooids, trace microfossils (ostracods), soft to dominantly firm, amorphous to sub blocky.</p> <p>3.9 metre bagged sample from 3245.0 m to 3248.9 mMDRT (TD 311 mm section). 311 mm section TD of 3248.9 mMDRT reached at 1300 hrs, 29 December 2008.</p>		
3248.9 - 3251.0	100	<p><b>CALCAREOUS CLAYSTONE:</b> as above.</p> <p>216 mm hole. Spot sample. 30% cement contamination.</p>		
3251.0 - 3253.0	100	<p><b>CALCAREOUS CLAYSTONE:</b> as above.</p> <p>Spot sample. 15% cement contamination.</p>		
3253.0 - 3255.0	100	<p><b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace fine to medium angular quartz grains, trace very fine carbonaceous specks, trace ooids, soft to dominantly firm, amorphous to sub blocky.</p> <p>Collected as a bagged 6.1 metre sample from 3248.9 m to 3255.0 mMDRT. (5% cement contamination)</p>		
3255.0 - 3260.0	100	<p><b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace fine to medium angular quartz grains, trace very fine carbonaceous specks, trace ooids, soft to dominantly firm, amorphous to sub blocky.</p> <p>5.0 m bagged samples from 3255.0 m to 3260.0 mMDRT.</p>		
3260.0 - 3265.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3265.0 - 3270.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3270.0 - 3275.0	100	<p><b>CALCAREOUS CLAYSTONE:</b> medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, occasionally medium dark grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace very fine carbonaceous specks, trace ooids, trace forams, soft to dominantly firm, moderately hard where medium dark grey, amorphous to sub blocky.</p>		
3275.0 - 3280.0	100	<p><b>CALCAREOUS CLAYSTONE:</b> medium dark grey, medium grey to rare medium light grey, light olive grey, light brownish grey, very calcareous grading to MARL, trace micromicaceous, silty where light brownish grey, trace very fine glauconite, trace disseminated pyrite, trace ooids, trace forams, soft to dominantly firm, moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile.</p> <p>Lakes Entrance: 3273.0 mMDRT / 2514.5 mTVDRT / -2493.0 mTVDAHD. Cuttings from 3280.0 mMDRT, becoming firmer, darker and less calcareous with depth.</p>		
3280.0 - 3285.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3285.0 - 3290.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3290.0 - 3295.0	100	<p><b>CALCAREOUS CLAYSTONE:</b> medium dark grey, medium grey, light olive grey, light brownish grey, very calcareous, grading to MARL, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, soft</p>		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		to dominantly firm, moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile.		
3295.0 - 3300.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium dark grey, medium grey, light olive grey, light brownish grey, very calcareous grading to MARL, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile.		
3300.0 - 3305.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3305.0 - 3310.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3310.0 - 3315.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3315.0 - 3320.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium dark grey, medium grey, light olive grey, light brownish grey, very calcareous grading to MARL, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile.		
3320.0 - 3325.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3325.0 - 3330.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3330.0 - 3335.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3335.0 - 3340.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above  Riser booster pump on. Earlier drilled cuttings seen in the sample.		
3340.0 - 3345.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3345.0 - 3350.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile.		
3350.0 - 3355.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky rare sub fissile.		
3355.0 - 3360.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, very calcareous becoming less calcareous with depth, trace pyrite nodules.		
3360.0 - 3365.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above, trace pyrite nodules.		
3365.0 - 3370.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous becoming less calcareous with depth, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile.  Starglide lubricant (0.5%) added to the mud system at 3370.0 mMDRT at 1530 hrs, 03 January 2008.		
3370.0 - 3375.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3375.0 - 3380.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3380.0 - 3385.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3385.0 - 3390.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace very finely arenaceous, trace very fine carbonaceous specks, dominantly firm to moderately hard where medium dark grey, soft to dispersive in part where medium light grey, amorphous to sub blocky, rare sub fissile.		
3390.0 - 3395.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3395.0 - 3400.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3400.0 - 3405.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3405.0 - 3410.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, trace very fine carbonaceous specks, dominantly firm to moderately hard where medium dark grey, soft in part where medium light grey, amorphous to sub blocky, trace sub fissile.		
3410.0 - 3415.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3415.0 - 3420.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above - trace disseminated pyrite.		
3420.0 - 3425.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above - trace nodular and disseminated pyrite.		
3425.0 - 3430.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, trace very fine carbonaceous specks, trace nodular and disseminated pyrite, dominantly firm to moderately hard where medium dark grey, soft in part where medium light grey, amorphous to sub blocky, trace sub fissile.		
3430.0 - 3435.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3435.0 - 3440.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above  Calcium carbonate added to mud from 3440.0 mMDRT.		
3440.0 - 3445.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3445.0 - 3450.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, trace very fine carbonaceous specks, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, soft in part where medium light grey, amorphous to sub blocky, trace sub fissile.		
3450.0 - 3455.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3455.0 - 3460.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3460.0 - 3465.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3465.0 - 3470.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, dominantly firm to moderately hard where medium dark grey, soft in part where medium light grey, amorphous to sub blocky, trace sub fissile.		
3470.0 - 3475.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3475.0 - 3480.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above - soft to moderately hard.		
3480.0 - 3485.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above - soft to moderately hard.		
3485.0 - 3490.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, dominantly firm to moderately hard where medium dark grey, soft in part where medium light grey, amorphous to sub blocky, trace sub fissile.		
3490.0 - 3495.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above - trace carbonaceous specks.		
3495.0 - 3500.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above - trace carbonaceous specks.		
3500.0 - 3505.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, trace carbonaceous specks, trace nodular pyrite, rare pale green yellow calcite flakes, dominantly firm to moderately hard where medium dark grey, dominantly soft where medium light grey, amorphous to sub blocky, trace sub fissile.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3505.0 - 3510.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3510.0 - 3515.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3515.0 - 3520.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey to light greenish grey, moderately calcareous, silty in part, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, trace carbonaceous specks, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, trace sub fissile.		
3520.0 - 3525.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above - trace nodular pyrite.		
3525.0 - 3530.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3530.0 - 3535.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3535.0 - 3540.0	100	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey, increasing light greenish grey, moderately calcareous, very silty, trace micromicaceous, trace very fine glauconite, trace very finely arenaceous, trace carbonaceous specks, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, trace sub fissile.		
3540.0 - 3545.0	100	<b>CALCAREOUS CLAYSTONE:</b> as above		
3545.0 - 3550.0	80 15 5	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey, increasing light greenish grey, moderately calcareous, very silty, trace micromicaceous, trace very fine glauconite, common very finely arenaceous grading to a <b>SANDY SILTSTONE</b> , trace carbonaceous specks, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, sub fissile <b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to <b>SILTY SANDSTONE</b> , trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky. <b>SILTY SANDSTONE:</b> clear to translucent, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, abundant silty matrix occurring as soft to firm aggregates, trace very fine glauconite, trace loose, trace calcareous, poor visible porosity, no hydrocarbon fluorescence.		
3550.0 - 3555.0	50 40 10	<b>CALCAREOUS CLAYSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above <b>SILTY SANDSTONE:</b> as above		
3555.0 - 3560.0	45 45 10	<b>CALCAREOUS CLAYSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above <b>SILTY SANDSTONE:</b> as above		
3560.0 - 3565.0	40 30 25 5	<b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to <b>SILTY SANDSTONE</b> , trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky. <b>SILTY SANDSTONE:</b> as above <b>CALCAREOUS CLAYSTONE:</b> as above <b>CLAYSTONE:</b> moderate yellow to light olive brown, non calcareous, soft, amorphous, dispersive.  Gurnard Claystone that is the thin marker of the Top of Latrobe.		
3565.0 - 3570.0	40 30 25 5	<b>SANDY SILTSTONE:</b> as above <b>SANDSTONE:</b> clear to translucent, light olivegrey to pale yellowish brown, very fine to dominantly fine, trace coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a with a very dispersive argillaceous matrix, trace to common very fine glauconite, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence. <b>CALCAREOUS CLAYSTONE:</b> as above <b>CLAYSTONE:</b> moderate yellow to light olive brown, non calcareous, soft, amorphous, dispersive.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3570.0 - 3575.0	40	<b>CALCAREOUS CLAYSTONE:</b> medium light grey to medium dark grey, light olive grey, increasing light greenish grey, moderately calcareous, very silty, trace micromicaceous, trace very fine glauconite, common very finely arenaceous grading to a SANDY SILTSTONE, trace carbonaceous specks, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, sub fissile		
	30	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky.		
	20	<b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to SILTY SANDSTONE, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky.		
	10	<b>SANDSTONE:</b>		
3575.0 - 3580.0	45	<b>SILTSTONE:</b> as above		
	25	<b>CALCAREOUS CLAYSTONE:</b> as above		
	20	<b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence.		
	10	<b>SANDY SILTSTONE:</b> as above		
3580.0 - 3585.0	55	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky.		
	25	<b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence.		
	10	<b>CALCAREOUS CLAYSTONE:</b> as above		
	10	<b>SANDY SILTSTONE:</b> as above		
3585.0 - 3590.0	45	<b>SILTSTONE:</b> as above		
	40	<b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence.		
	10	<b>SANDY SILTSTONE:</b> as above		
	5	<b>CALCAREOUS CLAYSTONE:</b> as above		
3590.0 - 3595.0	60	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky.		
	30	<b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence.		
	10	<b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to SILTY SANDSTONE, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky.		
3595.0 - 3600.0	70	<b>SILTSTONE:</b> as above		
	20	<b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	10	fluorescence. <b>SANDY SILTSTONE:</b> as above		
3600.0 - 3605.0	75 15 10	<b>SILTSTONE:</b> as above <b>SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3605.0 - 3610.0	70 20 10	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky. <b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence. <b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to <b>SILTY SANDSTONE</b> , trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky.		
3610.0 - 3615.0	90 5 5	<b>SILTSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above <b>SANDSTONE:</b> as above		
3615.0 - 3620.0	93 5 2	<b>SILTSTONE:</b> as above <b>SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3620.0 - 3625.0	90 5 5	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace disseminated pyrite, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky. <b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to <b>SILTY SANDSTONE</b> , trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky. <b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence.		
3625.0 - 3630.0	90 7 3	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace disseminated pyrite, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky. <b>SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3630.0 - 3635.0	90 7 3	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace disseminated pyrite, trace to common pyrite nodules, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky. <b>SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3635.0 - 3640.0	90 7 3	<b>SILTSTONE:</b> as above <b>SANDSTONE:</b> clear to translucent, light olive grey to pale yellowish brown, very fine to dominantly fine, trace medium and coarse, moderately sorted, dominantly sub rounded to rounded, occasionally occurring as soft to firm aggregates with a very dispersive argillaceous matrix, trace to common very fine glauconite grading in part to <b>GLAUCONITIC SANDSTONE</b> , trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence. <b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to <b>SILTY SANDSTONE</b> , trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		sub blocky.		
3640.0 - 3645.0	95	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace disseminated pyrite, trace to common pyrite nodules, trace to common micromicaceous, trace to common glauconite grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky.		
	3	<b>SANDY SILTSTONE:</b> as above		
	2	<b>SANDSTONE:</b> as above		
3645.0 - 3650.0	95	<b>SILTSTONE:</b> greyish brown to dusky brown, dark olive grey, olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace disseminated pyrite, trace to common pyrite nodules, trace to common micromicaceous, trace to common glauconite grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky.		
	3	<b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to SILTY SANDSTONE, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky.		
	2	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a very dispersive argillaceous/glauconitic matrix, common to abundant very fine glauconite and glauconite pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence.		
3650.0 - 3655.0	70	<b>SILTSTONE:</b> as above		
	20	<b>GLAUCONITIC SANDSTONE:</b> as above		
	10	<b>SANDY SILTSTONE:</b> as above		
3655.0 - 3660.0	40	<b>SILTSTONE:</b> as above		
	35	<b>SANDY SILTSTONE:</b> as above		
	25	<b>GLAUCONITIC SANDSTONE:</b> as above		
3660.0 - 3665.0	50	<b>SILTSTONE:</b> olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace disseminated pyrite, trace to common micromicaceous, trace to common glauconite grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky.		
	40	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a very dispersive argillaceous/glauconitic matrix, common to abundant very fine glauconite and glauconite pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence.		
	10	<b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to SILTY SANDSTONE, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky.		
3665.0 - 3670.0	50	<b>SILTSTONE:</b> as above		
	45	<b>GLAUCONITIC SANDSTONE:</b> as above		
	5	<b>SANDY SILTSTONE:</b> as above		
3670.0 - 3675.0	55	<b>SILTSTONE:</b> as above		
	40	<b>GLAUCONITIC SANDSTONE:</b> as above		
	5	<b>SANDY SILTSTONE:</b> as above		
3675.0 - 3680.0	65	<b>SILTSTONE:</b> olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace disseminated pyrite, trace pyrite nodules, trace to common micromicaceous, trace to common glauconite grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky.		
	33	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a very dispersive argillaceous/glauconitic matrix, common to abundant very fine glauconite and glauconite pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence.		
	2	<b>SANDY SILTSTONE:</b> trace, as above		



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3680.0 - 3685.0	67 30 3	<b>SILTSTONE:</b> as above, trace pyrite nodules. <b>GLAUCONITIC SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3685.0 - 3690.0	70 28 2	<b>SILTSTONE:</b> as above, trace pyrite nodules. <b>GLAUCONITIC SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3690.0 - 3695.0	50 48 2	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a very dispersive off-white argillaceous/glaucanitic matrix, common to abundant very fine glauconite and glauconite pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace disseminated pyrite, trace to common pyrite nodules, trace to common micromicaceous, trace to common glauconite grading to <b>GLAUCONITIC SILTSTONE</b> , firm, dominantly sub fissile to sub blocky. <b>SANDY SILTSTONE:</b> off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to <b>SILTY SANDSTONE</b> , trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky		
3695.0 - 3700.0	50 48 2	<b>GLAUCONITIC SANDSTONE:</b> as above <b>SILTSTONE:</b> as above, trace to common pyrite nodules. <b>SANDY SILTSTONE:</b> as above.		
3700.0 - 3705.0	55 40 5	<b>SILTSTONE:</b> as above - trace nodular pyrite. <b>GLAUCONITIC SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3705.0 - 3710.0	50 45 5	<b>SILTSTONE:</b> as above <b>GLAUCONITIC SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3710.0 - 3715.0	60 30 10	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a dispersive light grey to dark greenish grey glauconitic/argillaceous matrix, common to abundant very fine to medium glauconite grains, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace nodular and disseminated pyrite, trace to common micromicaceous, common fine glauconite grains grading to <b>GLAUCONITIC SILTSTONE</b> , firm, dominantly sub fissile to sub blocky. <b>SANDY SILTSTONE:</b> off white to light grey, light greenish grey, common very fine arenaceous grains grading in part to <b>SILTY SANDSTONE</b> , trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky		
3715.0 - 3720.0	50 30 20	<b>GLAUCONITIC SANDSTONE:</b> as above <b>SILTSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		
3720.0 - 3725.0	50 30 20	<b>GLAUCONITIC SANDSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above <b>SILTSTONE:</b> as above		
3725.0 - 3730.0	50 30 20	<b>GLAUCONITIC SANDSTONE:</b> as above <b>SILTSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above		



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3730.0 - 3735.0	50	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, trace coarse grains, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a dispersive light grey to dark greenish grey glauconitic/argillaceous matrix, common to abundant very fine to medium glauconite grains and pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence.		
	30	<b>SANDY SILTSTONE:</b> as above.		
	20	<b>SILTSTONE:</b> olive grey to dark grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace nodular and disseminated pyrite, trace to common micromicaceous, common fine glauconite grains grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky.		
3735.0 - 3740.0	70	<b>GLAUCONITIC SANDSTONE:</b> as above		
	20	<b>SANDY SILTSTONE:</b> off white to light grey, light greenish grey, rare to minor very fine arenaceous grains, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky		
	10	<b>SILTSTONE:</b> as above		
3740.0 - 3745.0	80	<b>GLAUCONITIC SANDSTONE:</b> as above		
	10	<b>SILTSTONE:</b> as above		
	10	<b>SANDY SILTSTONE:</b> as above		
3745.0 - 3750.0	80	<b>GLAUCONITIC SANDSTONE:</b> as above		
	10	<b>SILTSTONE:</b> as above		
	10	<b>SANDY SILTSTONE:</b> as above		
3750.0 - 3755.0	75	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, trace coarse grains, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a dispersive light grey to dark greenish grey glauconitic/argillaceous matrix, common to abundant very fine to medium glauconite grains and pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence.		
	15	<b>SANDY SILTSTONE:</b> off white to light grey, light greenish grey, rare to minor very fine arenaceous grains, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky		
	10	<b>SILTSTONE:</b> olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace to common micromicaceous, trace nodular pyrite, common fine glauconite grains grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky.		
3755.0 - 3760.0	35	<b>SANDY SILTSTONE:</b> off white to light grey, light greenish grey, rare to minor very fine arenaceous grains, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky		
	35	<b>SILTSTONE:</b> olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace to common micromicaceous, trace nodular pyrite, common fine glauconite grains grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky.		
	30	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a dispersive light grey to dark greenish grey glauconitic/argillaceous matrix, common very fine to medium glauconite grains and pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence.  5.0 metre samples from 3755.0 m to 3850.0 mMDRT.		
3760.0 - 3765.0	40	<b>SILTSTONE:</b> SILTSTONE 2. olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very finely arenaceous grading to SANDY SILTSTONE, trace to common micromicaceous, trace nodular pyrite, trace fine glauconite grains firm, dominantly sub fissile to sub blocky.		
	30	<b>SANDY SILTSTONE:</b> SILTSTONE 1. off white to light grey, light greenish grey, rare to minor very fine arenaceous grains, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky		
	15	<b>GLAUCONITIC SANDSTONE:</b> clear to translucent, light greenish grey, dominantly very fine to fine, well sorted, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a dispersive light grey to dark greenish grey glauconitic/argillaceous matrix, common very fine to medium glauconite grains and		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	15	pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. <b>SANDSTONE:</b> clear to translucent, trace pale green, fine to very coarse, dominantly medium to coarse, poorly sorted, angular to sub angular, weak glauconitic matrix, dominantly loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
3765.0 - 3770.0	50 30 15 5	<b>SANDSTONE:</b> clear to translucent, trace frosted, medium to very coarse, dominantly coarse, moderately sorted, angular to sub angular, rare sub rounded, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above <b>GLAUCONITIC SANDSTONE:</b> as above		
3770.0 - 3775.0	60 30 5 5	<b>SANDSTONE:</b> clear to translucent, trace frosted, medium to very coarse, dominantly coarse, moderately sorted, angular to sub angular, rare sub rounded, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above <b>SANDY SILTSTONE:</b> as above <b>GLAUCONITIC SANDSTONE:</b> as above		
3775.0 - 3780.0	80 20 0 0	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very finely arenaceous grading to <b>SANDY SILTSTONE</b> , trace to common micromicaceous, trace nodular pyrite, trace fine glauconite grains firm, dominantly sub fissile to sub blocky. <b>SANDY SILTSTONE:</b> trace cavings as above <b>GLAUCONITIC SANDSTONE:</b> trace cavings as above		
3780.0 - 3785.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace to common micromicaceous, trace nodular pyrite, trace fine glauconite grains, firm, dominantly sub fissile to sub blocky.		
3785.0 - 3790.0	75 25	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3790.0 - 3795.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3795.0 - 3800.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, very arenaceous grading to <b>SANDY SILTSTONE</b> , trace to common micromicaceous, trace disseminated pyrite, trace nodular pyrite, firm, dominantly sub fissile to sub blocky.		
3800.0 - 3805.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3805.0 - 3810.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3810.0 - 3815.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to dominantly sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace to common micromicaceous, trace nodular pyrite, firm, dominantly sub fissile to sub blocky.		
3815.0 - 3820.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to dominantly sub angular, rare sub rounded, weak pyrite cement, trace pyrite nodules, clean, loose, fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3820.0 - 3825.0	70 30	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to dominantly sub angular, rare sub rounded, weak to moderate pyrite cement, weak siliceous cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace nodular pyrite, firm, dominantly sub fissile to sub blocky.		
3825.0 - 3830.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, well sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3830.0 - 3835.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, very fine to very coarse, common very fine, common very coarse, poorly sorted, angular to dominantly sub angular where coarse, dominantly sub rounded where very fine, weak siliceous cement, weak pyrite cement on coarse grains, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3835.0 - 3840.0	75 25	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, very fine to very coarse, common very fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded where coarse, dominantly sub rounded where very fine, weak siliceous cement, weak pyrite cement on coarse grains, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace nodular pyrite, firm, dominantly sub fissile to sub blocky.		
3840.0 - 3845.0	70 30	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3845.0 - 3850.0	75 25	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
3850.0 - 3860.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace nodular pyrite, firm, dominantly sub fissile to sub blocky.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		10.0 metre sample from 3850.0 m to 3860.0 mMDRT due to high ROP.		
3860.0 - 3865.0	70	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, very fine to very coarse, common very fine and fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded where coarse, dominantly sub rounded where very fine, weak siliceous cement, weak pyrite cement on coarse grains, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	30	<b>SILTSTONE:</b> as above		
		5.0 metre samples from 3860.0 m to 3xxx.0 mMDRT.		
3865.0 - 3870.0	70	<b>SANDSTONE:</b> as above		
	30	<b>SILTSTONE:</b> as above		
3870.0 - 3875.0	90	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	10	<b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, firm, dominantly sub fissile to sub blocky.		
3875.0 - 3880.0	85	<b>SANDSTONE:</b> as above		
	15	<b>SILTSTONE:</b> as above		
3880.0 - 3885.0	85	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	15	<b>SILTSTONE:</b> as above		
3885.0 - 3890.0	80	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	20	<b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, firm, dominantly sub fissile to sub blocky.		
3890.0 - 3895.0	75	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	25	<b>SILTSTONE:</b> as above		
3895.0 - 3900.0	80	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	20	<b>SILTSTONE:</b> as above		
3900.0 - 3905.0	75	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, very fine to very coarse, rare very fine, dominantly coarse to very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	25	<b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, firm, dominantly sub fissile to sub blocky.		
3905.0 - 3910.0	80	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	20	dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3910.0 - 3915.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3915.0 - 3920.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3920.0 - 3925.0	90 10	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, very fine to very coarse, rare very fine, dominantly coarse to very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, firm, dominantly sub fissile to sub blocky.  Work at shakers. Sample may not be representative of the interval drilled.		
3925.0 - 3930.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above  Work at shakers. Sample may not be representative of the interval drilled.		
3930.0 - 3935.0	75 25	<b>SANDSTONE:</b> as above, medium to very coarse, dominantly coarse to very coarse, moderately sorted, weak siliceous cement, weak pyrite cement, trace pyrite nodules. <b>SILTSTONE:</b> as above		
3935.0 - 3940.0	75 25	<b>SANDSTONE:</b> as above, medium to very coarse, dominantly coarse to very coarse, moderately sorted, weak siliceous cement, weak pyrite cement, trace pyrite nodules. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, firm, dominantly sub fissile to sub blocky.		
3940.0 - 3945.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3945.0 - 3950.0	80 20	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above  Starglide* lubricant added to the Mud system at 1400 hrs, 05 January 2009, from 3975.0 mMDRT.		
3950.0 - 3955.0	75	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	25	hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, soft to dominantly firm, dominantly sub fissile to sub blocky.		
3955.0 - 3960.0	70 30	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
3960.0 - 3965.0	75 25	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, soft to dominantly firm, dominantly sub fissile to sub blocky.		
3965.0 - 3970.0	70 30	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
3970.0 - 3975.0	70 30	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, rare medium, common coarse, dominantly very coarse, well sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak to moderate pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3975.0 - 3980.0	65 35	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, very fine to very coarse, rare very fine, dominantly coarse to very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, soft to dominantly firm, dominantly sub fissile to sub blocky.		
3980.0 - 3985.0	75 25	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, rare medium, common coarse, dominantly very coarse, well sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak to moderate pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
3985.0 - 3990.0	70 30	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
3990.0 - 3995.0	80 20	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
3995.0 - 4000.0	70 30	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, medium to very coarse, rare medium, common coarse, dominantly very coarse, well sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak to moderate pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4000.0 - 4005.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace very light grey, trace frosted, fine to very coarse, rare fine, dominantly coarse to very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
4005.0 - 4010.0	85	<b>SANDSTONE:</b> clear to translucent, common pale yellowish grey, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
4005.0 - 4010.0	15	<b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4010.0 - 4015.0	80	<b>SANDSTONE:</b> clear to translucent, common pale yellowish grey, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	20	<b>SILTSTONE:</b> as above		
4015.0 - 4020.0	75	<b>SANDSTONE:</b> as above		
	25	<b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4020.0 - 4025.0	75	<b>SANDSTONE:</b> as above		
	25	<b>SILTSTONE:</b> as above		
4025.0 - 4030.0	80	<b>SANDSTONE:</b> clear to translucent, common pale yellowish grey, trace very light grey, trace frosted, fine to very coarse, common fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	20	<b>SILTSTONE:</b> as above		
4030.0 - 4035.0	80	<b>SANDSTONE:</b> as above		
	20	<b>SILTSTONE:</b> as above		
4035.0 - 4040.0	80	<b>SANDSTONE:</b> as above		
	20	<b>SILTSTONE:</b> as above		
4040.0 - 4045.0	80	<b>SANDSTONE:</b> clear to translucent, common pale yellowish grey, trace very light grey, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace pyrite nodules, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	20	<b>SILTSTONE:</b> olive grey to dark olive grey, medium grey, greyish brown, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4045.0 - 4050.0	70	<b>SANDSTONE:</b> as above		
	30	<b>SILTSTONE:</b> as above		
4050.0 - 4055.0	65	<b>SANDSTONE:</b> as above		
	35	<b>SILTSTONE:</b> as above		
4055.0 - 4060.0	60	<b>SANDSTONE:</b> as above		
	40	<b>SILTSTONE:</b> as above		
4060.0 - 4065.0	70	<b>SANDSTONE:</b> clear to translucent, common pale yellowish grey to pale yellowish orange, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	30	<b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace very fine glauconite grains, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4065.0 - 4070.0	70	<b>SANDSTONE:</b> as above		
	30	<b>SILTSTONE:</b> as above		
4070.0 - 4075.0	80	<b>SANDSTONE:</b> as above		
	20	<b>SILTSTONE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
4075.0 - 4080.0	90	<b>SANDSTONE:</b> clear to translucent, common pale yellowish grey to pale yellowish orange, trace frosted, fine to very coarse, common fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, clean, loose, poor inferred porosity, no hydrocarbon fluorescence.		
	10	<b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace very fine glauconite grains, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4080.0 - 4085.0	95	<b>SANDSTONE:</b> as above		
	5	<b>SILTSTONE:</b> as above		
4085.0 - 4090.0	95	<b>SANDSTONE:</b> as above		
	5	<b>SILTSTONE:</b> as above		
		Change to 10 m samples from 4090.0 mMDRT.		
4090.0 - 4100.0	90	<b>SANDSTONE:</b> as above		
	10	<b>SILTSTONE:</b> as above		
4100.0 - 4110.0	90	<b>SANDSTONE:</b> clear to translucent, common pale yellowish grey to pale yellowish orange, trace frosted, fine to very coarse, minor fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, clean, loose, poor inferred porosity, no hydrocarbon fluorescence.		
	10	<b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace very fine glauconite grains, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4110.0 - 4120.0	90	<b>SANDSTONE:</b> as above		
	10	<b>SILTSTONE:</b> as above		
4120.0 - 4130.0	80	<b>SANDSTONE:</b> clear to translucent, rare pale yellowish grey to pale yellowish orange, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	20	<b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace very fine glauconite grains, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4130.0 - 4140.0	80	<b>SANDSTONE:</b> as above		
	20	<b>SILTSTONE:</b> as above		
		Change to 5 m samples from 4140.0 mMDRT.		
4140.0 - 4145.0	85	<b>SANDSTONE:</b> as above		
	15	<b>SILTSTONE:</b> as above		
4145.0 - 4150.0	90	<b>SANDSTONE:</b> as above		
	10	<b>SILTSTONE:</b> as above		
4150.0 - 4155.0	85	<b>SANDSTONE:</b> clear to translucent, trace pale yellowish grey to pale yellowish orange, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
	15	<b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace disseminated pyrite, trace very fine glauconite grains, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4155.0 - 4160.0	85	<b>SANDSTONE:</b> as above		



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
4155.0 - 4160.0	15	<b>SILTSTONE:</b> as above  Change to 10 m samples from 4160.0 mMDRT.		
4160.0 - 4170.0	80 20	<b>SANDSTONE:</b> as above - trace nodular pyrite. <b>SILTSTONE:</b> as above		
4170.0 - 4180.0	80 20	<b>SANDSTONE:</b> as above - trace nodular pyrite. <b>SILTSTONE:</b> as above		
4180.0 - 4190.0	85 15	<b>SANDSTONE:</b> clear to translucent, trace pale yellowish grey to pale yellowish orange, trace frosted, medium to very coarse, dominantly coarse to very coarse, moderately sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace very fine glauconite grains, soft to dominantly firm, dominantly sub fissile to sub blocky.		
4190.0 - 4200.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace pale yellowish grey to pale yellowish orange, trace frosted, fine to very coarse, dominantly coarse to very coarse, minor fine, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
4200.0 - 4210.0	90 10	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
4210.0 - 4220.0	90 10	<b>SANDSTONE:</b> as above - trace nodular pyrite. <b>SILTSTONE:</b> as above		
4220.0 - 4230.0	85 15	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
4230.0 - 4240.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace frosted, fine to very coarse, common fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey, non calcareous, trace very finely arenaceous, trace to common micromicaceous, trace very fine glauconite grains, soft to dominantly firm, sub fissile to sub blocky.		
4240.0 - 4250.0	80 20	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
4250.0 - 4260.0	80 20	<b>SANDSTONE:</b> as above - minor fine grains. <b>SILTSTONE:</b> as above		
4260.0 - 4270.0	85 15	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above  Change to 5 m samples from 4270.0 mMDRT.		
4270.0 - 4275.0	90 10	<b>SANDSTONE:</b> clear to translucent, trace frosted, fine to very coarse, common fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, clean, loose, poor inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey to grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace very fine glauconite grains, soft to dominantly firm, sub fissile to sub blocky.		
4275.0 - 4280.0	90 10	<b>SANDSTONE:</b> as above - minor fine grains. <b>SILTSTONE:</b> as above		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
4280.0 - 4285.0	90 10	<b>SANDSTONE:</b> as above - minor fine grains. <b>SILTSTONE:</b> as above		
4285.0 - 4290.0	90 10	<b>SANDSTONE:</b> as above - minor fine grains, trace nodular pyrite. <b>SILTSTONE:</b> as above		
4290.0 - 4295.0	90 10	<b>SANDSTONE:</b> clear to translucent, trace frosted, fine to very coarse, minor fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey to grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace very fine glauconite grains, soft to dominantly firm, very dispersive, sub fissile to sub blocky.		
4295.0 - 4300.0	90 10	<b>SANDSTONE:</b> as above <b>SILTSTONE:</b> as above		
4300.0 - 4305.0	95 5	<b>SANDSTONE:</b> as above - common fine grains. <b>SILTSTONE:</b> as above		
4305.0 - 4310.0	90 10	<b>SANDSTONE:</b> as above - common fine grains. <b>SILTSTONE:</b> as above  Change to 10 m samples from 4310.0 mMDRT.		
4310.0 - 4320.0	90 10	<b>SANDSTONE:</b> clear to translucent, trace frosted, fine to very coarse, minor fine, common very coarse, poorly sorted, angular to dominantly sub angular, rare sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey to grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace very fine glauconite grains, soft to dominantly firm, very dispersive, sub fissile to sub blocky.		
4320.0 - 4330.0	80 20	<b>SANDSTONE:</b> clear to translucent, trace frosted, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> as above		
4330.0 - 4340.0	80 20	<b>SANDSTONE:</b> as above - rare nodular pyrite <b>SILTSTONE:</b> as above		
4340.0 - 4350.0	80 20	<b>SANDSTONE:</b> as above - rare nodular pyrite <b>SILTSTONE:</b> as above		
4350.0 - 4360.0	70 30	<b>SANDSTONE:</b> clear to translucent, trace frosted, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> olive grey to dark greenish grey, medium dark grey to grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace very fine glauconite grains, soft to dominantly firm, very dispersive, sub fissile to sub blocky.		
4360.0 - 4370.0	60 40	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence. <b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		10.0 metre samples from 4360.0 m to 4370.0 mMDRT.		
4370.0 - 4375.0	80	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	20	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, weak pyrite cement, trace nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
		5.0 metre samples from 4370.0 m to 4xxx.0 mMDRT.		
4375.0 - 4380.0	90	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace to common pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	10	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, moderate pyrite cement, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4380.0 - 4385.0	93	<b>SILTSTONE:</b> as above		
	7	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, moderate pyrite cement, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4385.0 - 4390.0	95	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace to common pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	5	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, moderate pyrite cement, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4390.0 - 4395.0	97	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace to common pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky		
	3	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, medium to very coarse, dominantly coarse to very coarse, trace fine, moderately sorted, angular to dominantly sub angular, minor sub rounded, weak siliceous cement, moderate pyrite cement, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4395.0 - 4400.0	90	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace to common pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	10	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, very fine to very coarse, dominantly very fine to fine, trace very coarse, moderately sorted, dominantly sub rounded to sub angular, very fine to fine grains occurring with a very dispersive light grey argillaceous matrix that is washed out, weak siliceous cement and weak pyrite cement on coarse grains, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4400.0 - 4405.0	93	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace to common pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	7	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, very fine to very coarse, dominantly very fine to fine, trace very coarse, moderately sorted, dominantly sub rounded to sub angular, very fine to fine grains occurring with a very dispersive light grey argillaceous matrix that is washed out, weak siliceous cement and weak pyrite cement on coarse grains, trace to common nodular pyrite, clean,		

Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4405.0 - 4410.0	95	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite, trace to common pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	5	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, very fine to very coarse, dominantly very fine to fine, trace very coarse, moderately sorted, dominantly sub rounded to sub angular, very fine to fine grains occurring with a very dispersive light grey argillaceous matrix that is washed out, weak siliceous cement and weak pyrite cement on coarse grains, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4410.0 - 4415.0	95	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace disseminated pyrite, trace pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	5	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, very fine to very coarse, dominantly very fine to fine, trace very coarse, moderately sorted, dominantly sub rounded to sub angular, very fine to fine grains occurring with a very dispersive light grey argillaceous matrix that is washed out, weak siliceous cement and weak pyrite cement on coarse grains, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4415.0 - 4420.0	97	<b>SILTSTONE:</b> as above		
	3	<b>SANDSTONE:</b> as above		
4420.0 - 4425.0	97	<b>SILTSTONE:</b> light grey to medium grey, medium dark grey to trace grey black, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite occurring as laminae, trace pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub fissile to sub blocky.		
	3	<b>SANDSTONE:</b> clear to translucent, trace frosted, trace very light grey, very fine to very coarse, dominantly very fine to fine, trace very coarse, moderately sorted, dominantly sub rounded to sub angular, very fine to fine grains occurring with a very dispersive light grey argillaceous matrix that is washed out, weak siliceous cement and weak pyrite cement on coarse grains, trace to common nodular pyrite, clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.		
4425.0 - 4430.0	98	<b>SILTSTONE:</b> as above		
	2	<b>SANDSTONE:</b> as above		
4430.0 - 4430.3	95	<b>SILTSTONE:</b> as above		
	5	<b>SANDSTONE:</b> as above		
		Bottoms-up sample at 4430.3 mMDRT. Drilled to 4433.0 mMDRT at 1345 hrs, 06 January 2009. Circulated samples out to 4430.3 mMDRT. POOH to pick-up high-torque DP and new bit of required.		