



Apache Energy
Cuttings Descriptions Report

| Well Name : | | Elver-1 | Print Date | | 29/12/2008 |
|-------------------------|----|--|------------|--------|------------|
| Wellsite Geologist(s) : | | J Eastwood T Lobo | | | |
| Interval (m) | % | Lithology / Show Descriptions | | Ca (%) | Mg (%) |
| Main | | | | | |
| 1741.7 - 1745.0 | 50 | CALCARENITE: 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 | CALCISILTITE: 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 | CALCILUTITE: 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 | CALCARENITE: as above | | | |
| | 30 | CALCILUTITE: as above | | | |
| | 20 | CALCISILTITE: 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 | CALCILUTITE: as above | | | |
| | 40 | CALCISILTITE: | | | |
| | 20 | CALCARENITE: as above | | | |
| | | 5% cement contamination in sample. | | | |
| 1755.0 - 1760.0 | 40 | CALCILUTITE: 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 | CALCISILTITE: as above | | | |
| | 25 | CALCARENITE: 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 | DOLOMITE: 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 | CALCILUTITE: as above, trace light brown hard calcite fragments. | | | |
| | 25 | CALCISILTITE: as above | | | |
| | 10 | CALCARENITE: as above | | | |
| | | Trace cement contamination in sample. | | | |
| 1765.0 - 1770.0 | 60 | CALCILUTITE: as above | | | |
| | 30 | CALCISILTITE: as above | | | |
| | 10 | CALCARENITE: as above | | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----------------|---|--------|--------|
| | | Trace cement contamination in sample. | | |
| 1770.0 - 1775.0 | 55 30 15 | CALCILUTITE: as above CALCISILTITE: 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. CALCARENITE: 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 | CALCILUTITE: 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. CALCISILTITE: as above CALCARENITE: 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 | CALCILUTITE: as above CALCILUTITE: CALCARENITE: as above | | |
| 1785.0 - 1790.0 | 55 40 5 | CALCILUTITE: as above CALCISILTITE: CALCARENITE: as above | | |
| 1790.0 - 1795.0 | 50 45 5 | CALCISILTITE: CALCILUTITE: 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. CALCARENITE: as above | | |
| 1795.0 - 1800.0 | 45 45 10 | CALCILUTITE: as above CALCISILTITE: 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. CALCARENITE: 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 | CALCISILTITE: CALCILUTITE: 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. CALCARENITE: as above | | |
| 1805.0 - 1810.0 | 50 45 5 | CALCISILTITE: CALCILUTITE: as above CALCARENITE: as above | | |
| 1810.0 - 1815.0 | 45 45 10 | CALCISILTITE: CALCILUTITE: as above CALCARENITE: as above | | |
| 1815.0 - 1820.0 | 50 45 5 | CALCISILTITE: CALCILUTITE: as above CALCARENITE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----|--|--------|--------|
| 1820.0 - 1825.0 | 50 | CALCISILTITE: 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 | CALCILUTITE: 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 | CALCARENITE: 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 | CALCISILTITE: | | |
| | 35 | CALCILUTITE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 1830.0 - 1835.0 | 65 | CALCISILTITE: | | |
| | 30 | CALCILUTITE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 1835.0 - 1840.0 | 60 | CALCISILTITE: | | |
| | 35 | CALCILUTITE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 1840.0 - 1845.0 | 70 | CALCISILTITE: | | |
| | 25 | CALCILUTITE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 1845.0 - 1850.0 | 75 | CALCISILTITE: 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 | CALCILUTITE: 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 | CALCARENITE: 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 | CALCISILTITE: | | |
| | 20 | CALCILUTITE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 1855.0 - 1860.0 | 70 | CALCISILTITE: | | |
| | 20 | CALCILUTITE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 1860.0 - 1865.0 | 70 | CALCISILTITE: | | |
| | 15 | CALCARENITE: as above | | |
| | 15 | CALCILUTITE: as above | | |
| 1865.0 - 1870.0 | 75 | CALCISILTITE: | | |
| | 15 | CALCILUTITE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 1870.0 - 1875.0 | 80 | CALCISILTITE: 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 | CALCARENITE: 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 | CALCILUTITE: 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 | CALCISILTITE: as above | | |
| | 10 | CALCARENITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| 1880.0 - 1885.0 | 80 | CALCISILTITE: as above | | |
| | 15 | CALCILUTITE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 1885.0 - 1890.0 | 85 | CALCISILTITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 1890.0 - 1895.0 | 85 | CALCISILTITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 1895.0 - 1900.0 | 90 | CALCISILTITE: 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. | | |
| | 5 | CALCARENITE: 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. | | |
| | 5 | CALCILUTITE: 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 | CALCISILTITE: as above | | |
| | 15 | CALCARENITE: as above | | |
| | 5 | CALCILUTITE: as above | | |
| 1905.0 - 1910.0 | 80 | CALCISILTITE: as above | | |
| | 10 | CALCARENITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| 1910.0 - 1915.0 | 75 | CALCISILTITE: as above | | |
| | 15 | CALCARENITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| 1915.0 - 1920.0 | 80 | CALCISILTITE: as above | | |
| | 10 | CALCARENITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| 1920.0 - 1925.0 | 75 | CALCISILTITE: 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 | | |
| | 15 | CALCARENITE: 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. | | |
| | 10 | CALCILUTITE: 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 | CALCISILTITE: as above | | |
| | 20 | CALCILUTITE: as above | | |
| | 10 | CALCARENITE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----------------|---|--------|--------|
| 1930.0 - 1940.0 | 70 15 15 | CALCISILTITE: as above CALCARENITE: as above CALCILUTITE: 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 | CALCISILTITE: 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. CALCILUTITE: 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. CALCARENITE: 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 CALCISILTITE , trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence. | | |
| 1950.0 - 1960.0 | 70 25 5 | CALCISILTITE: as above CALCILUTITE: as above CALCARENITE: as above | | |
| 1960.0 - 1970.0 | 70 20 10 | CALCISILTITE: as above CALCILUTITE: as above CALCARENITE: as above | | |
| 1970.0 - 1980.0 | 75 15 10 | CALCISILTITE: as above CALCILUTITE: as above CALCARENITE: as above | | |
| 1980.0 - 1990.0 | 75 20 5 | CALCISILTITE: as above CALCILUTITE: very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE , increasing clay content in part grading to CALCAREOUS CLAYSTONE , trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky. CALCARENITE: as above | | |
| 1990.0 - 2000.0 | 70 20 10 | CALCISILTITE: 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. CALCARENITE: 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 CALCISILTITE , trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence. CALCILUTITE: very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE , increasing clay content in part grading to CALCAREOUS CLAYSTONE , trace very fine glauconite, trace forams, trace ooids, soft to firm, amorphous to sub blocky. | | |
| 2000.0 - 2010.0 | 70 20 10 | CALCISILTITE: as above CALCILUTITE: as above CALCARENITE: as above | | |
| 2010.0 - 2020.0 | 75 20 5 | CALCISILTITE: as above CALCILUTITE: as above CALCARENITE: as above | | |
| 2020.0 - 2030.0 | 85 10 5 | CALCISILTITE: as above CALCILUTITE: as above CALCARENITE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|---------------------|---|--------|--------|
| 2030.0 - 2040.0 | 70 20 10 | CALCISILTITE: as above CALCILUTITE: as above CALCARENITE: as above | | |
| 2040.0 - 2050.0 | 70 20 5 5 | CALCISILTITE: 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. CALCILUTITE: very light grey to light greenish grey, off white, silty in part grading to CALCISILTITE , increasing clay content in part grading to CALCAREOUS CLAYSTONE , trace very fine glauconite, soft to firm, amorphous to sub blocky. CALCAREOUS CLAYSTONE: medium grey to light olive grey, very calcareous grading to CALCILUTITE , trace micromicaceous, trace very fine glauconite, silty, soft to dominantly firm, sub blocky to blocky. CALCARENITE: 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 CALCISILTITE , trace very fine glauconitic grains, firm to moderately hard, poor visible porosity, no hydrocarbon fluorescence. | | |
| 2050.0 - 2060.0 | 60 25 15 0 | CALCISILTITE: as above CALCILUTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: trace, as above | | |
| 2060.0 - 2070.0 | 60 20 20 0 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCILUTITE: as above CALCARENITE: trace, as above | | |
| 2070.0 - 2080.0 | 50 30 20 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCILUTITE: as above | | |
| 2080.0 - 2090.0 | 55 30 15 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCILUTITE: as above | | |
| 2090.0 - 2100.0 | 40 30 30 | CALCISILTITE: light grey to light olive grey, light greenish grey, off white, 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. CALCAREOUS CLAYSTONE: medium grey to light olive grey, very calcareous grading to CALCILUTITE , trace micromicaceous, trace very fine glauconite, silty, soft to dominantly firm, sub blocky to blocky. CALCILUTITE: very light grey to light olive grey, off white, silty in part grading to CALCISILTITE , increasing clay content in part grading to CALCAREOUS CLAYSTONE , trace very fine glauconite, soft to firm, amorphous to sub blocky. | | |
| 2100.0 - 2110.0 | 50 25 25 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCILUTITE: as above | | |
| 2110.0 - 2120.0 | 35 35 30 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCILUTITE: as above | | |
| 2120.0 - 2130.0 | 40 30 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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. | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----|--|--------|--------|
| 2120.0 - 2130.0 | 30 | CALCILUTITE: 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 | CALCISILTITE: as above | | |
| | 30 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCILUTITE: as above | | |
| 2140.0 - 2150.0 | 40 | CALCISILTITE: as above | | |
| | 30 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCILUTITE: as above | | |
| 2150.0 - 2160.0 | 40 | CALCISILTITE: 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. | | |
| | 40 | CALCAREOUS CLAYSTONE: 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. | | |
| | 20 | CALCILUTITE: 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. | | |
| 2160.0 - 2170.0 | 40 | CALCISILTITE: as above | | |
| | 40 | CALCAREOUS CLAYSTONE: as above | | |
| | 20 | CALCILUTITE: as above | | |
| 2170.0 - 2180.0 | 50 | CALCAREOUS CLAYSTONE: as above | | |
| | 40 | CALCISILTITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| 2180.0 - 2190.0 | 60 | CALCAREOUS CLAYSTONE: 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. | | |
| | 30 | CALCISILTITE: 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. | | |
| | 10 | CALCILUTITE: 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 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCISILTITE: as above | | |
| | 10 | CALCILUTITE: as above | | |
| 2200.0 - 2210.0 | 70 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCISILTITE: as above | | |
| | 0 | CALCILUTITE: trace, as above | | |
| 2210.0 - 2220.0 | 60 | CALCAREOUS CLAYSTONE: 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. | | |
| | 40 | CALCISILTITE: 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. | | |
| 2220.0 - 2230.0 | 80 | CALCAREOUS CLAYSTONE: as above | | |
| | 20 | CALCISILTITE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|---------------|---|--------|--------|
| 2230.0 - 2240.0 | 80 20 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2240.0 - 2250.0 | 80 20 | CALCAREOUS CLAYSTONE: 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. CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2260.0 - 2270.0 | 60 40 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2270.0 - 2280.0 | 50 50 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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. | | |
| 2280.0 - 2290.0 | 60 40 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2290.0 - 2300.0 | 70 30 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2300.0 - 2310.0 | 75 20 5 | CALCAREOUS CLAYSTONE: 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. CALCISILTITE: 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. CALCARENITE: 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 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above CALCARENITE: as above | | |
| 2320.0 - 2330.0 | 75 20 5 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above CALCARENITE: | | |
| 2330.0 - 2340.0 | 90 10 | CALCAREOUS CLAYSTONE: 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. CALCISILTITE: 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. | | |
| 2340.0 - 2350.0 | 90 10 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2350.0 - 2360.0 | 80 20 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----|--|--------|--------|
| 2360.0 - 2370.0 | 80 | CALCAREOUS CLAYSTONE: 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 | CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: as above | | |
| | 20 | CALCISILTITE: as above | | |
| 2380.0 - 2390.0 | 80 | CALCAREOUS CLAYSTONE: as above | | |
| | 20 | CALCISILTITE: as above | | |
| 2390.0 - 2400.0 | 60 | CALCAREOUS CLAYSTONE: 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. | | |
| | 40 | CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: as above | | |
| | 40 | CALCISILTITE: as above | | |
| 2410.0 - 2420.0 | 70 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCISILTITE: as above | | |
| 2420.0 - 2430.0 | 70 | CALCAREOUS CLAYSTONE: 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 | CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCISILTITE: as above | | |
| 2440.0 - 2450.0 | 70 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCISILTITE: as above | | |
| 2450.0 - 2455.0 | 80 | CALCAREOUS CLAYSTONE: as above | | |
| | 20 | CALCISILTITE: as above | | |
| | | 5.0 metre samples from 2450.0 m to 2730.0 mMDRT. | | |
| 2455.0 - 2460.0 | 80 | CALCAREOUS CLAYSTONE: 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. | | |
| | 20 | CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: as above | | |
| | 40 | CALCISILTITE: as above | | |
| 2465.0 - 2470.0 | 60 | CALCISILTITE: as above | | |
| | 40 | CALCAREOUS CLAYSTONE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----------|--|--------|--------|
| 2470.0 - 2475.0 | 80 20 | CALCISILTITE: as above, amorphous to sub blocky, trace blocky. CALCAREOUS CLAYSTONE: as above | | |
| 2475.0 - 2480.0 | 80 20 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2485.0 - 2490.0 | 80 20 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2490.0 - 2495.0 | 80 20 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2495.0 - 2500.0 | 95 5 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: 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 | CALCISILTITE: as above. CALCAREOUS CLAYSTONE: as above. | | |
| 2510.0 - 2515.0 | 90 10 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2515.0 - 2520.0 | 90 10 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2520.0 - 2525.0 | 85 15 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2530.0 - 2535.0 | 80 20 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2535.0 - 2540.0 | 80 20 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----|---|--------|--------|
| 2540.0 - 2545.0 | 75 | CALCISILTITE: as above | | |
| | 20 | CALCAREOUS CLAYSTONE: 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 | CALCARENITE: 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 | CALCISILTITE: 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. | | |
| | 15 | CALCAREOUS CLAYSTONE: 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 | CALCARENITE: as above | | |
| 2550.0 - 2555.0 | 70 | CALCISILTITE: as above | | |
| | 20 | CALCAREOUS CLAYSTONE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 2555.0 - 2560.0 | 65 | CALCISILTITE: as above | | |
| | 25 | CALCAREOUS CLAYSTONE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 2560.0 - 2565.0 | 70 | CALCISILTITE: as above | | |
| | 20 | CALCAREOUS CLAYSTONE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 2565.0 - 2570.0 | 75 | CALCISILTITE: as above | | |
| | 20 | CALCAREOUS CLAYSTONE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 2570.0 - 2575.0 | 75 | CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: 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 | CALCARENITE: 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 | CALCISILTITE: as above | | |
| | 15 | CALCAREOUS CLAYSTONE: as above | | |
| | 5 | CALCARENITE: as above | | |
| | | Walnut mud additive seen in samples from 2580.0 to 2585.0 mMDRT. | | |
| 2580.0 - 2585.0 | 80 | CALCISILTITE: as above | | |
| | 20 | CALCAREOUS CLAYSTONE: as above | | |
| | 0 | CALCARENITE: as above | | |
| 2585.0 - 2590.0 | 80 | CALCISILTITE: as above | | |
| | 15 | CALCAREOUS CLAYSTONE: as above | | |
| | 5 | CALCARENITE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|---------------|--|--------|--------|
| 2590.0 - 2595.0 | 75 20 5 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: as above | | |
| 2595.0 - 2600.0 | 77 20 3 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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. CALCARENITE: 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 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: as above | | |
| 2605.0 - 2610.0 | 80 15 5 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: as above, trace ooids, trace forams. | | |
| 2610.0 - 2615.0 | 85 10 5 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: as above | | |
| 2615.0 - 2620.0 | 85 10 5 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: as above | | |
| 2620.0 - 2625.0 | 90 7 3 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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. CALCARENITE: 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 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: as above | | |
| 2630.0 - 2635.0 | 90 10 0 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: trace, as above | | |
| 2635.0 - 2640.0 | 85 15 0 | CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above CALCARENITE: as above Walnut mud additive seen in samples from 2640.0 to 2650.0 mMDRT. | | |
| 2640.0 - 2645.0 | 80 10 | CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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. CALCARENITE: 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 | CALCISILTITE: as above CALCARENITE: as above CALCAREOUS CLAYSTONE: 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 | CALCISILTITE: as above CALCARENITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2655.0 - 2660.0 | 50 45 5 | CALCARENITE: as above CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2660.0 - 2665.0 | 55 40 5 | CALCARENITE: as above CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2665.0 - 2670.0 | 60 35 5 | CALCARENITE: as above CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2670.0 - 2675.0 | 65 30 5 | CALCARENITE: 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. CALCISILTITE: 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. CALCAREOUS CLAYSTONE: 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 | CALCARENITE: as above CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2680.0 - 2685.0 | 50 45 5 | CALCISILTITE: as above CALCARENITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2685.0 - 2690.0 | 50 45 5 | CALCARENITE: as above CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2690.0 - 2695.0 | 55 40 5 | CALCARENITE: as above CALCISILTITE: as above CALCAREOUS CLAYSTONE: as above | | |
| 2695.0 - 2700.0 | 60 35 | CALCARENITE: 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. CALCISILTITE: 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. | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----|---|--------|--------|
| 2695.0 - 2700.0 | 5 | CALCAREOUS CLAYSTONE: 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. | | |
| 2700.0 - 2705.0 | 55 | CALCARENITE: as above | | |
| | 40 | CALCISILTITE: as above | | |
| | 5 | CALCAREOUS CLAYSTONE: as above | | |
| 2705.0 - 2710.0 | 50 | CALCISILTITE: as above | | |
| | 45 | CALCARENITE: as above | | |
| | 5 | CALCAREOUS CLAYSTONE: as above | | |
| 2710.0 - 2715.0 | 75 | CALCISILTITE: as above | | |
| | 15 | CALCARENITE: as above | | |
| | 10 | CALCAREOUS CLAYSTONE: as above | | |
| 2715.0 - 2720.0 | 75 | CALCISILTITE: as above | | |
| | 15 | CALCAREOUS CLAYSTONE: as above | | |
| | 10 | CALCARENITE: as above | | |
| 2720.0 - 2725.0 | 60 | CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: 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 | CALCARENITE: 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 | CALCISILTITE: as above, common carbonaceous specks | | |
| | 25 | CALCAREOUS CLAYSTONE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 2730.0 - 2740.0 | 50 | CALCISILTITE: as above | | |
| | 45 | CALCAREOUS CLAYSTONE: as above | | |
| | 5 | CALCARENITE: as above | | |
| | | 10.0 metre samples from 2730.0 m to 2860.0 mMDRT due to high ROP. | | |
| 2740.0 - 2750.0 | 50 | CALCISILTITE: as above | | |
| | 45 | CALCAREOUS CLAYSTONE: as above | | |
| | 5 | CALCARENITE: as above | | |
| 2750.0 - 2760.0 | 55 | CALCAREOUS CLAYSTONE: 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. | | |
| | 40 | CALCISILTITE: 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 | CALCARENITE: trace - as above. | | |
| 2760.0 - 2770.0 | 70 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCISILTITE: as above | | |
| 2770.0 - 2780.0 | 70 | CALCAREOUS CLAYSTONE: as above | | |
| | 30 | CALCISILTITE: as above | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|----------|--|--------|--------|
| 2780.0 - 2790.0 | 80 20 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2790.0 - 2800.0 | 90 10 | CALCAREOUS CLAYSTONE: 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. CALCISILTITE: 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 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: as above | | |
| 2810.0 - 2820.0 | 90 0 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: trace - as above | | |
| 2820.0 - 2830.0 | 100 0 | CALCAREOUS CLAYSTONE: as above CALCISILTITE: trace - as above | | |
| 2830.0 - 2840.0 | 100 | CALCAREOUS CLAYSTONE: 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 | CALCAREOUS CLAYSTONE: as above | | |
| 2850.0 - 2860.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 2860.0 - 2880.0 | 100 | CALCAREOUS CLAYSTONE: 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. | | |
| 2880.0 - 2900.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 2900.0 - 2920.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 2920.0 - 2940.0 | 100 | CALCAREOUS CLAYSTONE: 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. | | |
| 2940.0 - 2960.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 2960.0 - 2980.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 2980.0 - 3000.0 | 100 | CALCAREOUS CLAYSTONE: 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. | | |
| 3000.0 - 3020.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3020.0 - 3040.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3040.0 - 3060.0 | 100 | CALCAREOUS CLAYSTONE: 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. | | |
| 3060.0 - 3070.0 | 100 | CALCAREOUS CLAYSTONE: 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. | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|-----|---|--------|--------|
| 3070.0 - 3080.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3080.0 - 3090.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3090.0 - 3100.0 | 100 | CALCAREOUS CLAYSTONE: 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 | CALCAREOUS CLAYSTONE: as above | | |
| 3110.0 - 3120.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3120.0 - 3130.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3130.0 - 3140.0 | 100 | CALCAREOUS CLAYSTONE: 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 | CALCAREOUS CLAYSTONE: as above, trace microfossils (ostracods) | | |
| 3150.0 - 3160.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace microfossils (ostracods) | | |
| 3160.0 - 3165.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace microfossils (ostracods) | | |
| | | 5.0 metre bagged samples from 3160.0 m to 3245.0 mMDRT. | | |
| 3165.0 - 3170.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace microfossils (ostracods). | | |
| 3170.0 - 3175.0 | 100 | CALCAREOUS CLAYSTONE: 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 | CALCAREOUS CLAYSTONE: as above, trace ooids, trace microfossils (ostracods). | | |
| 3180.0 - 3185.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace ooids, trace microfossils (ostracods). | | |
| 3185.0 - 3190.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace ooids, trace microfossils (ostracods). | | |
| 3190.0 - 3195.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3195.0 - 3200.0 | 100 | CALCAREOUS CLAYSTONE: 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 | CALCAREOUS CLAYSTONE: as above, trace disseminated pyrite. | | |
| 3205.0 - 3210.0 | 100 | CALCAREOUS CLAYSTONE: as above | | |
| 3210.0 - 3215.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace disseminated pyrite | | |
| 3215.0 - 3220.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace disseminated pyrite, trace pyrite nodules. | | |
| 3220.0 - 3225.0 | 100 | CALCAREOUS CLAYSTONE: 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 | CALCAREOUS CLAYSTONE: as above, trace to common pyrite nodules. | | |
| 3230.0 - 3235.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace to common pyrite nodules. | | |
| 3235.0 - 3240.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace to common pyrite nodules. | | |
| 3240.0 - 3245.0 | 100 | CALCAREOUS CLAYSTONE: as above, trace to common pyrite nodules. | | |

| Interval (m) | % | Lithology / Show Descriptions | Ca (%) | Mg (%) |
|-----------------|-----|---|--------|--------|
| 3245.0 - 3248.9 | 100 | <p>CALCAREOUS CLAYSTONE: 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> | | |
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