

Apache Energy

Cuttings Descriptions Report

Well Name: Elver-1 Print Date 5/01/2009

Wellsite Geologist(s): J Eastwood T Lobo

Interval	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
(m)				
Main				
3240.0 - 3245.0	100	CALCAREOUS CLAYSTONE: as above, trace to common pyrite nodules.		
3245.0 - 3248.9	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. 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		
3248.9 - 3251.0	100	December 2008. CALCAREOUS CLAYSTONE: as above.		
3248.9 - 3251.0	100	216 mm hole. Spot sample. 30% cement contamination.		
3251.0 - 3253.0	100	CALCAREOUS CLAYSTONE: as above.		
		Spot sample. 15% cement contamination.		
3253.0 - 3255.0	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 fine to medium angular quartz grains, trace very fine carbonaceous specks, trace ooids, soft to dominantly firm, amorphous to sub blocky.		
		Collected as a bagged 6.1 metre sample from 3248.9 m to 3255.0 mMDRT. (5% cement contamination)		
3255.0 - 3260.0	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 fine to medium angular quartz grains, trace very fine carbonaceous specks, trace ooids, soft to dominantly firm, amorphous to sub blocky.		
		5.0 m bagged samples from 3255.0 m to 3260.0 mMDRT.		
3260.0 - 3265.0	100	CALCAREOUS CLAYSTONE: as above		
3265.0 - 3270.0	100	CALCAREOUS CLAYSTONE: as above		
3270.0 - 3275.0	100	CALCAREOUS CLAYSTONE: 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.		
3275.0 - 3280.0	100	CALCAREOUS CLAYSTONE: 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.		



Lakes Entrance: 3273.0 mMDRT / 2514.5 mTVDRT / -2493.0 mTVDAHD. Cuttingsfrom 3280.0 mMDRT, becoming firmer, darker and less calcareous with depth. 2280.0 - 3285.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light torwinding grey, very calcareous, grading to MAME, silly where light torwinding grey is girly torwinding grey, very calcareous, grading to MAME, silly where light torwinding grey is girly torwinding grey, very calcareous, grading to MAME, silly where light torwinding grey, light of the grey, light torwinding grey, trace micromicaceous, frace way thin of glound, frace disearming grey, light of the grey, light forwinding grey, light torwinding grey, light torwinding grey, trace micromicaceous, frace way thin of glounding frace disearming grey, light torwinding grey, trace principal grey, trace grey, are published, trace disearming grey, trace grey, are published. 2380.0 - 3325.0 100 CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light of we grey, light torwinding grey, trace micromicaceous, trace very fine glounding that where medium darks grey, amorphous to sub blockly, rise sub fisale. CALCAREOUS CLAYSTONE: medium dark grey, med	Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
288.0 - 3280.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light prownish grey, very calcareous, grading to MARL, sity where light brownish grey, trace micromicancus, trace very fine glicucorite, trace light prownish grey, very calcareous, grading to MARL, sity where light brownish grey, trace micromicancus, trace very fine glicucorite, trace light olive grey, area site finalish. 2895.0 - 3300.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, trace micromicancus, trace very fine gliculorite, trace disseminated pyrite, dominantly finit no moderately hard where medium dark grey, anonphous to sub blocky, rate sub fissile. 3800.0 - 3310.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light prownish grey, light greening grey, very calcareous grading to MARL, silly where light brownish grey, trace very fine glicuconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, medium grey, light olive grey, light prownish grey, trace were fine discontite. Trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, medium grey, light prownish grey, trace micromi	(111)		mTVDAHD. Cuttingsfrom 3280.0 mMDRT, becoming firmer, darker and less		
239.0 - 3295.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, very calcareous, grading to MARL, silty where light brownish grey, very calcareous desemmented prytie, soft to dominantly firm. moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. 2395.0 - 3300.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, trace micronicaceous, trace very fine glauconie, trace disseminated prytie, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky. rare sub fissile. 3300.0 - 3300.0 100 CALCAREOUS CLAYSTONE: as above 2310.0 - 3315.0 100 CALCAREOUS CLAYSTONE: as above 2310.0 - 3315.0 100 CALCAREOUS CLAYSTONE: as above 2310.0 - 3320.0 100 CALCAREOUS CLAYSTONE: as above 2320.0 - 3335.0 100 CALCAREOUS CLAYSTONE: as above 2320.0 - 3335.0 100 CALCAREOUS CLAYSTONE: as above 2320.0 - 3340.0 100 CALCAREOUS CLAYSTONE: as above 2320.0 - 3340.0 100 CALCAREOUS CLAYSTONE: as above 2320.0 - 3350.0 100 CALCAREOUS CLAYSTONE: as above 2320.0 - 3350.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, light greening frey, very calcareous grading to MARL, sity where light brownish grey, light greening frey, very calcareous grading to MARL, sity where light brownish grey, light greening frey, very calcareous grading to MARL, sity where light brownish grey, light greening frey, very calcareous grading to MARL, sity where light brownish grey, light greening frey, very calcareous grading to MARL, sity where light brownish grey, light greening frey, very calcareous becoming less calcareous with depth, trace prite medium dark grey, medium grey, light olive gr	3280.0 - 3285.0	100	CALCAREOUS CLAYSTONE: as above		
glipht brownish grey, very calcarous, grading to MARL, sity where light brownish grey tabor incorrocations, yet stoor incorrocations, trace very fine gliauconite, trace disseminated pyrite, sold to dominantly firm, moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. 2295.0 - 3300.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, trace microrinaceous, trace very fine gliauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, very calcarous grading to MARL, sity where light brownish grey, very calcarous grading to MARL, sity where light brownish grey, very calcarous grading to MARL, sity where light brownish grey, very calcarous grading to MARL, sity where light brownish grey, trace microminaceous, trace very fine gliauconite, trace deseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. 2320.0 - 3325.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, light greening grey, very calcarous grading to MARL, sity where light brownish grey, light greening grey, very calcarous grading to MARL, sity where light brownish grey, light greening grey, very calcarous grading to MARL, sity where light brownish grey, light greening grey, very calcarous grading to MARL, sity where light brownish grey, light greening grey, very calcarous grading to MARL, sity where light brownish grey, light greening grey, very calcarous grading to MARL, sity where light brownish	3285.0 - 3290.0	100	CALCAREOUS CLAYSTONE: as above		
light brownish grey, very calcareous grading to MARL, sitly where light brownish grey, trace micromicacous, trace very fine glauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blooky, rare sub fissile. 330.0 - 330.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light clive grey, light brownish grey, very celicareous grading to MARL, silly where light brownish grey, trace micromicacous, trace very fire glauconiet, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blooky, rare sub fissile. 3320.0 - 3325.0 100 CALCAREOUS CLAYSTONE: as above 3330.0 - 3340.0 100 CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3440.0 - 3345.0 100 CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3450.1 - 3350.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3450.1 - 3350.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light clive grey, light brownish grey, light greenish grey, very calcareous grading to MARL, silly where light brownish grey, light greenish grey, very calcareous grading to MARL, silly where light brownish grey, light greenish grey, very calcareous grading to MARL, silly where light brownish grey, light greenish grey, very calcareous grading to MARL, silly where light brownish grey, trace micromicacous, trace very fine glauconile, trace disseminated pyrite, trace pyrite nodules, dominantly into moderately hard where medium dark grey, amorphous to sub blocky, are sub fissile. 3350.0 - 3360.0 100 CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth. trace pyrite nodules. 3460.0 - 3370.0 100 CALCAREOUS C	3290.0 - 3295.0	100	light brownish grey, very calcareous, grading to MARL, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, soft to dominantly firm, moderately hard where medium dark grey, amorphous to sub		
3315.0 - 3310.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light commission grey, terror calcareous grading to MARL, silty where light brownish grey, terror calcareous grading to MARL, silty where light commission grey, terror calcareous grading to MARL, silty where light commission grey, terror calcareous grading to MARL, silty where light commission grey, terror calcareous grading to MARL, silty where light commission grey, trace microrificaceous, trace every fine glauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. 3325.0 - 3330.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3345.0 - 3345.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above grading to MARL, silty where light brownish grey, light green grey, trace wery fine glauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. 3350.0 - 3350.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light clive grey, light trownish grey, light green grey, trace wery fine glauconite, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. 3350.0 - 3360.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light clive grey, light trownish grey, light green green micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules. 3360.0 - 3360.0 100 CALCAREOUS CLAYSTONE: as above, trace pyrite nodules. 3360.0 - 3370.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light clive grey, light townish grey, light premish grey, very calcareous becoming less calcareous with depth, silty where light brownish grey, trace pyrite nodules. 3360.0 - 3370.0	3295.0 - 3300.0	100	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		
3310.0 - 3315.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, very calcareous grading to MARL, silty where light brownish grey, trace micromicoseous, trace wery fine glauconile, trace disseminated pyrite, are sub fissile. CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: 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 micronicaceous, trace very fine glauconiet, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, trace micronicaceous, trace very fine glauconiet, trace disseminated pyrite, trace pyrite nodules, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky rare sub fissile. CALCAREOUS CLAYSTONE: as above, very calcareous pading to MARL, silty where light brownish grey, trace micronicaceous, trace very fine glauconiet, trace disseminated pyrite, trace pyrite nodules. CALCAREOUS CLAYSTONE: as above, trace pyrite nodules. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light provinsing 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.	3300.0 - 3305.0	100	CALCAREOUS CLAYSTONE: as above		
3315.0 - 3320.0 100	3305.0 - 3310.0	100	CALCAREOUS CLAYSTONE: as above		
light brownish grey, very calcareous grading to MARL, silty where light brownish grey, trace micromicaceous, trace very fine glauconicit, trace discendinantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. 3320.0 - 3335.0 100 CALCAREOUS CLAYSTONE: as above 3330.0 - 3335.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3340.0 - 3345.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 345.0 - 3350.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, trace micromicaceous, trace very fine glauconile, trace disseminated pyrite, dominantly firm to moderately hard where medium dark grey, amorphous to sub blocky, rare sub fissile. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous becoming less calcareous with depth, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules. CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules, dominantly firm to medium dark grey, medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous becoming less calcareous with depth, sixty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules. Starglide lubricant (0.5	3310.0 - 3315.0	100	CALCAREOUS CLAYSTONE: as above		
3325.0 - 3330.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light torwinsh grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous grading to MARL, silty where light brownish grey, light greenish grey, very calcareous becoming less calcareous with depth, trace pyrite nodules. CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules. CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, light prownish 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. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light prownish grey, trace pyrite nodules. Starglide lubricant (0.5%) added to the mud system at 3370.0 mMDRT at 1530 hrs, 03 January 2008.	3315.0 - 3320.0	100	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		
3330.0 - 3335.0 100 CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3340.0 - 3345.0 100 CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3345.0 - 3350.0 100 CALCAREOUS CLAYSTONE: 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 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, 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. 3350.0 - 3360.0 100 CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules. 3360.0 - 3365.0 100 CALCAREOUS CLAYSTONE: as above, trace pyrite nodules. 3360.0 - 3370.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light tolive grey, light brownish grey, light greenish grey, very calcareous becoming less calcareous with depth, silty where light brownish grey, trace pyrite nodules. 3360.0 - 3370.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light tolive grey, 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.	3320.0 - 3325.0	100	CALCAREOUS CLAYSTONE: as above		
335.0 - 3340.0 100 CALCAREOUS CLAYSTONE: as above Riser booster pump on. Earlier drilled cuttings seen in the sample. 3340.0 - 3345.0 100 CALCAREOUS CLAYSTONE: as above CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, 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. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light prownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, 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. CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules. CALCAREOUS CLAYSTONE: as above, trace pyrite nodules. CALCAREOUS CLAYSTONE: as above, trace pyrite nodules. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous becoming less calcareous with depth, silv 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.	3325.0 - 3330.0	100	CALCAREOUS CLAYSTONE: as above		
Riser booster pump on. Earlier drilled cuttings seen in the sample. 3340.0 - 3345.0 100 CALCAREOUS CLAYSTONE: as above	3330.0 - 3335.0	100	CALCAREOUS CLAYSTONE: as above		
3340.0 - 3345.0 100 CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous grading to MARL, silty where 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. CALCAREOUS CLAYSTONE: medium dark grey, medium grey, light olive grey, 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. CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules. CALCAREOUS CLAYSTONE: 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 pyrite nodules. CALCAREOUS CLAYSTONE: 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.	3335.0 - 3340.0	100	CALCAREOUS CLAYSTONE: as above		
CALCAREOUS CLAYSTONE: 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. CALCAREOUS CLAYSTONE: 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. CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules. CALCAREOUS CLAYSTONE: 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.			Riser booster pump on. Earlier drilled cuttings seen in the sample.		
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. CALCAREOUS CLAYSTONE: 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. CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules. CALCAREOUS CLAYSTONE: 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.	3340.0 - 3345.0	100	CALCAREOUS CLAYSTONE: as above		
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 CALCAREOUS CLAYSTONE: as above, very calcareous becoming less calcareous with depth, trace pyrite nodules. 3365.0 - 3370.0 100 CALCAREOUS CLAYSTONE: 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 CALCAREOUS CLAYSTONE: as above	3345.0 - 3350.0	100	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,		
calcareous with depth, trace pyrite nodules. 3360.0 - 3365.0 100 CALCAREOUS CLAYSTONE: as above, trace pyrite nodules. CALCAREOUS CLAYSTONE: 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 CALCAREOUS CLAYSTONE: as above	3350.0 - 3355.0	100	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		
3365.0 - 3370.0 100 CALCAREOUS CLAYSTONE: 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 CALCAREOUS CLAYSTONE: as above	3355.0 - 3360.0	100	•		
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 CALCAREOUS CLAYSTONE: as above	3360.0 - 3365.0	100	CALCAREOUS CLAYSTONE: as above, trace pyrite nodules.		
mMDRT at 1530 hrs, 03 January 2008. 3370.0 - 3375.0 100 CALCAREOUS CLAYSTONE: as above	3365.0 - 3370.0	100	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.		
	3370.0 - 3375.0	100	CALCAREOUS CLAYSTONE: as above		



Interval	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
(m)				
3375.0 - 3380.	100	CALCAREOUS CLAYSTONE: as above		
3380.0 - 3385.	100	CALCAREOUS CLAYSTONE: as above		
3385.0 - 3390.	100	CALCAREOUS CLAYSTONE: 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.	100	CALCAREOUS CLAYSTONE: as above		
3395.0 - 3400.	100	CALCAREOUS CLAYSTONE: as above		
3400.0 - 3405.	100	CALCAREOUS CLAYSTONE: as above		
3405.0 - 3410.	100	CALCAREOUS CLAYSTONE: 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.	100	CALCAREOUS CLAYSTONE: as above		
3415.0 - 3420.	100	CALCAREOUS CLAYSTONE: as above - trace disseminated pyrite.		
3420.0 - 3425.	100	CALCAREOUS CLAYSTONE: as above - trace nodular and disseminated pyrite.		
3425.0 - 3430.	100	CALCAREOUS CLAYSTONE: 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.	100	CALCAREOUS CLAYSTONE: as above		
3435.0 - 3440.	100	CALCAREOUS CLAYSTONE: as above Calcium carbonate added to mud from 3440.0 mMDRT.		
3440.0 - 3445.	0 100	CALCAREOUS CLAYSTONE: as above		
3445.0 - 3450.	0 100	CALCAREOUS CLAYSTONE: 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.	100	CALCAREOUS CLAYSTONE: as above		
3455.0 - 3460.	100	CALCAREOUS CLAYSTONE: as above		
3460.0 - 3465.	100	CALCAREOUS CLAYSTONE: as above		
3465.0 - 3470.	100	CALCAREOUS CLAYSTONE: 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.	100	CALCAREOUS CLAYSTONE: as above		
3475.0 - 3480.	100	CALCAREOUS CLAYSTONE: as above - soft to moderately hard.		
3480.0 - 3485.	0 100	CALCAREOUS CLAYSTONE: as above - soft to moderately hard.		
3485.0 - 3490.	100	CALCAREOUS CLAYSTONE: 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		



	erval m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
			grey, amorphous to sub blocky, trace sub fissile.		
3490.0	- 3495.0	100	CALCAREOUS CLAYSTONE: as above - trace carbonaceous specks.		
3495.0	- 3500.0	100	CALCAREOUS CLAYSTONE: as above - trace carbonaceous specks.		
3500.0	- 3505.0	100	CALCAREOUS CLAYSTONE: 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.		
3505.0	- 3510.0	100	CALCAREOUS CLAYSTONE: as above		
3510.0	- 3515.0	100	CALCAREOUS CLAYSTONE: as above		
3515.0	- 3520.0	100	CALCAREOUS CLAYSTONE: 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	CALCAREOUS CLAYSTONE: as above - trace nodular pyrite.		
3525.0	- 3530.0	100	CALCAREOUS CLAYSTONE: as above		
3530.0	- 3535.0	100	CALCAREOUS CLAYSTONE: as above		
3535.0	- 3540.0	100	CALCAREOUS CLAYSTONE: 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	CALCAREOUS CLAYSTONE: as above		
3545.0	- 3550.0	80	CALCAREOUS CLAYSTONE: 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 SANDY SILTSTONE: off white to very lght grey, light greenish grey, common very		
		10	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.		
		5	SILTY SANDSTONE: clear to translucent, dominanly very fne 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	CALCAREOUS CLAYSTONE: as above		
		40	SANDY SILTSTONE: as above		
		10	SILTY SANDSTONE: as above		
3555.0	- 3560.0	45	CALCAREOUS CLAYSTONE: as above		
		45	SANDY SILTSTONE: as above		
0500 5	0=0= 0	10	SILTY SANDSTONE: as above		
3560.0	- 3565.0	40	SANDY SILTSTONE: off white to very lght 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.		
		30	SILTY SANDSTONE: as above		
		25	CALCAREOUS CLAYSTONE: as above		
		5	CLAYSTONE: moderate yelow to light olive brown, non calcareous, soft, amorphous, dispersive.		
			Gurnard Claystone that is the thin marker of the Top of Latrobe.		. 4 of 11



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3565.0 - 3570.0	40	SANDY SILTSTONE: as above		
	30	SANDSTONE: 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.		
	25 5	CALCAREOUS CLAYSTONE: as above CLAYSTONE: moderate yelow to light olive brown, non calcareous, soft,		
		amorphous, dispersive.		
3570.0 - 3575.0	40	calcareous claystone: 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	SILTSTONE: 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	SANDY SILTSTONE: off white to very lght 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	SANDSTONE:		
3575.0 - 3580.0	45	SILTSTONE: as above		
	25	CALCAREOUS CLAYSTONE: as above		
	20	SANDSTONE: 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	SANDY SILTSTONE: as above		
3580.0 - 3585.0	55 25	SILTSTONE: 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. SANDSTONE: 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. CALCAREOUS CLAYSTONE: as above		
	10	SANDY SILTSTONE: as above		
3585.0 - 3590.0	45	SILTSTONE: as above		
33350	40	SANDSTONE: 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	SANDY SILTSTONE: as above		
	5	CALCAREOUS CLAYSTONE: as above		
3590.0 - 3595.0	60	SILTSTONE: 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	SANDSTONE: 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	SANDY SILTSTONE: off white to very lght grey, light greenish grey, common very		



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%
		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	SILTSTONE: as above		
	20	SANDSTONE: 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	SANDY SILTSTONE: as above		
3600.0 - 3605.0	75	SILTSTONE: as above		
	15	SANDSTONE: as above		
	10	SANDY SILTSTONE: as above		
3605.0 - 3610.0	70	SILTSTONE: 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	SANDSTONE: 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	SANDY SILTSTONE: off white to very lght 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.		
3610.0 - 3615.0	90	SILTSTONE: as above		
	5	SANDY SILTSTONE: as above		
	5	SANDSTONE: as above		
3615.0 - 3620.0	93	SILTSTONE: as above		
	5	SANDSTONE: as above		
	2	SANDY SILTSTONE: as above		
3620.0 - 3625.0	90	SILTSTONE: greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace disseminated pyrite, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky.		
	5	SANDY SILTSTONE: 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.		
	5	SANDSTONE: 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	SILTSTONE: greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace disseminated pyrite, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky.		
	7	SANDSTONE: as above		
	3	SANDY SILTSTONE: as above		
3630.0 - 3635.0	90	SILTSTONE: greyish brown to dusky brown, dark olive grey, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace disseminated pyrite, trace to common pyrite nodules, trace to common micromicaceous, trace glauconite, firm, dominantly sub fissile to sub blocky.		
	7	SANDSTONE: as above		
	3	SANDY SILTSTONE: as above		



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3635.0 - 3640.0	90	SILTSTONE: as above		
	7	SANDSTONE: 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 GLAUCONITIC SANDSTONE, trace pyrite nodules, dominantly loose after washing, poor to fair visible porosity, no hydrocarbon fluorescence. SANDY SILTSTONE: off white to very lght 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.		
3640.0 - 3645.0	95	SILTSTONE: 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	SANDY SILTSTONE: as above		
	2	SANDSTONE: as above		
3645.0 - 3650.0	95	SILTSTONE: 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	SANDY SILTSTONE: off white to very lght 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	GLAUCONITIC SANDSTONE: 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	SILTSTONE: as above		
	20	GLAUCONITIC SANDSTONE: as above		
	10	SANDY SILTSTONE: as above		
3655.0 - 3660.0	40	SILTSTONE: as above		
	35	SANDY SILTSTONE: as above		
	25	GLAUCONITIC SANDSTONE: as above		
3660.0 - 3665.0	50	SILTSTONE: 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	GLAUCONITIC SANDSTONE: 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	SANDY SILTSTONE: 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	SILTSTONE: as above		
	45	GLAUCONITIC SANDSTONE: as above		
	5	SANDY SILTSTONE: as above		
3670.0 - 3675.0	55	SILTSTONE: as above		
	40	GLAUCONITIC SANDSTONE: as above		
	5	SANDY SILTSTONE: as above		



Section Sect	Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
very fine to fine, well sorted, dominantly sub rounded to rounded, cocurring as soft to fine aggregates with a very dispersible profiles, cocasionally loose after washing, poor visible proriety, no hydroachron fluorescence. 2 SANDY SILTSTONE: trace, as above 3085.0 67 SILTSTONE: as above 4 SANDY SILTSTONE: as above 4 SANDY SILTSTONE: as above 5 SANDY SILTSTONE: as above 4 SANDY SILTSTONE: as above 5 SANDY SILTSTONE: as above 6 SANDY SILTSTONE: as above 7 SANDY SILTSTONE: as above 8 SANDY SILTSTONE: as above 8 SANDY SILTSTONE: as above 9 SILTSTONE: a	3675.0 - 3680.0	65	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		
3680.0 - 3685.0 67 SILTSTONE: as above, trace pyrite nodules.			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.		
30 GLAUCONITIC SANDSTONE: as above 3865.0 - 3690.0 70 SILTSTONE: as above, trace pyrite nodules. GLAUCONITIC SANDSTONE: as above 28 GLAUCONITIC SANDSTONE: as above 29 SANDY SILTSTONE: as above 3990.0 - 3695.0 50 GLAUCONITIC SANDSTONE: dear 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-write argillaceous/glauconitic matrix. SILTSTONE: dive grey to dark dive grey, greysh brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE; trace disseminated pyrite, trace to common pyrite nodules, trace to common microriicaceous, trace very fine glauconitic grading to GLAUCONITIC SILTSTONE; firm, dominantly sub fissile to sub blocky. 2 SANDY SILTSTONE: off white to very light greys, light greenish grey, common very fine arenaceous grading strading land to SILTSTONE; firm, dominantly sub fissile to sub blocky. 2 SANDY SILTSTONE: and the sabove silts of sub blocky. 3 SANDY SILTSTONE: as above. 3 SANDY SILTSTONE: as above. 4 SILTSTONE: as above, trace to common pyrite nodules. 3 SANDY SILTSTONE: as above. 4 SILTSTONE: as above. 4 SILTSTONE: as above. 4 SILTSTONE: as above. 5 SANDY SILTSTONE: does not common to be undertified to rounded, occurring as soft to firm aggregates with a deperative light grey to dark grey and in greenish grey glauconite grains, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. 5 SILTSTONE: olive grey to dark grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE: from dominantly sub fissile to sub blocky. 5 SANDY SILTSTONE: olive gr	2690.0 2695.0		·		
3 SANDY SILTSTONE: as above 3686.0 - 3690.0 70 SILTSTONE: as above, trace pyrite nodules. GLAUCONITIC SANDSTONE: as above 2 SANDY SILTSTONE: as above 2 GLAUCONITIC SANDSTONE: dear 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 disporative off-write argillaceous/glauconitic matrix, common to abundant very fine glauconite and plauconite pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. SILTSTONE: olive grey to dark flow grey, draysh shown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE; firm, dominantly sub fissile to sub blocky. 2 SANDY SILTSTONE: off white to very light greenist grey, common very fine atenacous grading significantly grey, light greenist grey, common very fine atenacous grading significantly grey, light greenist grey, common very fine atenacous grading significantly grey, light greenist grey, common very fine atenacous grading significantly grey, light greenist grey, common very fine atenacous grading significantly grey to glauconitic grey, glatter grey, dominantly sub fissile to sub blocky. 3695.0 - 3700.0 50 GLAUCONITIC SANDSTONE: as above 3700.0 - 3705.0 55 SILTSTONE: as above, trace to common pyrite nodules. 3700.0 - 3710.0 50 SILTSTONE: as above - trace nodular pyrite. 45 GLAUCONITIC SANDSTONE: as above 3700.0 - 3710.0 50 SILTSTONE: as above 3700.0 - 3710.0 60 GLAUCONITIC SANDSTONE: as above 3700.0 - 3715.0 60 GLAUCONITIC SANDSTONE: does not ranslucent, light greenish grey, dominantly very fine to fine, well softed, dominantly sub rounded to rounded, occurring as soft to firm aggregates with a departive light grey to dark greenish grey glauconitic argulaceous matrix, common to abundant very fine to medium glauconite grains, occasionally ligose after vashing, poor visible provisibly robytocarbon fluorescence. 30 SILTSTONE: olive grey to dark grey, greyish brown to dusky brown, non calcareous,	3660.0 - 3665.0				
3885.0 - 3890.0 70 SILTSTONE: as above, trace pyrite nodules. GLAUCONITIC SANDSTONE: as above SANDY SILTSTONE: as above SILTSTONE: as abov					
Seption Sept	2005.0				
2 SANDY SILTSTONE: as above 3690.0 - 3695.0 50 GLAUCONITIC SANDSTONE: 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 argiliaecous/signacuonitic marky, common to abundant very fine glauconitie and glauconite pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. 3ILTSTONE: 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 glauconite grading to GLAUCONITIC SILTSTONE, firm, dominantly sub fissile to sub blocky. 2 SANDY SILTSTONE: of white to very light grey, light green, light green, common very fine arenaceous grading prading in part to SILTY SANDSTONE, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky. 3695.0 - 3700.0 50 GLAUCONITIC SANDSTONE: as above 3170.0 - 3705.0 55 SILTSTONE: as above, trace to common pyrite nodules. 3705.0 - 3710.0 50 SILTSTONE: as above - trace nodular pyrite. 40 GLAUCONITIC SANDSTONE: as above 51 SANDY SILTSTONE: as above 52 SANDY SILTSTONE: as above 53 SANDY SILTSTONE: as above 54 GLAUCONITIC SANDSTONE: as above 55 SANDY SILTSTONE: as above 56 GLAUCONITIC SANDSTONE: dear 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 45 GLAUCONITIC SANDSTONE: dear 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 46 GLAUCONITIC SILTSTONE: firm, dominantly sub frown to clusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace nodular and disseminated pyrite, trace to common micromicaceous, common micromi	3685.0 - 3690.0				
3690.0 - 3695.0 50 GLAUCONITIC SANDSTONE: 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 angillaceous/glauconitic martix, common to abundant very fine glauconite and glauconite pellets, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. 48 SLISTONE: 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 piratonicaceous, trace to common glauconite grading to GLAUCONITIC SILTSTONE, time, dominantly sub fissile to sub blocky. 2 SANDY SILTSTONE: off white to very light grey, light greenish grey, common very fine arenaceous grains grading in part to SILTY SANDSTONE; trace aclareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky. 3695.0 - 3700.0 50 GLAUCONITIC SANDSTONE: as above. 3700.0 - 3705.0 55 SILTSTONE: as above, trace to common pyrite nodules. 3700.0 - 3705.0 55 SILTSTONE: as above - trace nodular pyrite. GLAUCONITIC SANDSTONE: as above 3700.0 - 3715.0 50 SILTSTONE: as above 3710.0 - 3715.0 SILTSTONE: as a					
AB SILTSTONE: 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 pyrite nodules, trace to common micromicaceous, stace to sub blocky. 2	3690.0 - 3695.0		GLAUCONITIC SANDSTONE: 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/glauconitic matrix, common to abundant very fine glauconite and glauconite pellets, occasionally loose		
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 3695.0 - 3700.0 50 GLAUCONITIC SANDSTONE: as above SILTSTONE: as above, trace to common pyrite nodules. SANDY SILTSTONE: as above - trace nodular pyrite. GLAUCONITIC SANDSTONE: as above SANDY SILTSTONE: as above SANDY SILTSTONE: as above GLAUCONITIC SANDSTONE: as above SANDY SILTSTONE: as above GLAUCONITIC SANDSTONE: as above SANDY SILTSTONE: as above GLAUCONITIC SANDSTONE: as above GLAUCONITIC SANDSTONE: of the firm agreement of the firm aggregates with a dispersive light grey to dark 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 glauconite grains, occasionally loose after washing, poor visible porosity, no hydrocarbon fluorescence. 30 SILTSTONE: 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: off white to light grey, light greenish grey, common very fine arenaceous grains grading in part to SILTY SANDSTONE, trace accadareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub blocky		48	SILTSTONE: 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 pyrite nodules, trace to common micromicaceous, trace to common glauconite grading to GLAUCONITIC SILTSTONE, firm, dominantly sub		
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3700.0 - 3705.0 55 SILTSTONE: as above - trace nodular pyrite. GLAUCONITIC SANDSTONE: as above SANDY SILTSTONE: as above 3705.0 - 3710.0 50 SILTSTONE: as above 45 GLAUCONITIC SANDSTONE: as above SANDY SILTSTONE: as above 3710.0 - 3715.0 60 GLAUCONITIC SANDSTONE: 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. 30 SILTSTONE: 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. SANDY SILTSTONE: off white to 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		48	SILTSTONE: as above, trace to common pyrite nodules.		
40 GLAUCONITIC SANDSTONE: as above 3705.0 - 3710.0 50 SILTSTONE: as above 45 GLAUCONITIC SANDSTONE: as above 3710.0 - 3715.0 60 GLAUCONITIC SANDSTONE: 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. 30 SILTSTONE: 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. SANDY SILTSTONE: off white to 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	SANDY SILTSTONE: as above.		
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3710.0 - 3710.0 50 SILTSTONE: as above 45 GLAUCONITIC SANDSTONE: as above 5 SANDY SILTSTONE: as above 3710.0 - 3715.0 60 GLAUCONITIC SANDSTONE: 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. 30 SILTSTONE: 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. 10 SANDY SILTSTONE: off white to 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		40	GLAUCONITIC SANDSTONE: as above		
GLAUCONITIC SANDSTONE: as above 3710.0 - 3715.0 60 GLAUCONITIC SANDSTONE: 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. 30 SILTSTONE: 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. 10 SANDY SILTSTONE: off white to 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		5	SANDY SILTSTONE: as above		
SANDY SILTSTONE: as above GLAUCONITIC SANDSTONE: 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. SILTSTONE: 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. SANDY SILTSTONE: off white to 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	3705.0 - 3710.0	50	SILTSTONE: as above		
3710.0 - 3715.0 GLAUCONITIC SANDSTONE: 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. SILTSTONE: 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. SANDY SILTSTONE: off white to 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		45	GLAUCONITIC SANDSTONE: as above		
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. 30 SILTSTONE: 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. 10 SANDY SILTSTONE: off white to 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		5	SANDY SILTSTONE: as above		
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. SANDY SILTSTONE: off white to 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	3710.0 - 3715.0	60	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		
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		30	very arenaceous grading to SANDY SILTSTONE, trace nodular and disseminated pyrite, trace to common micromicaceous, common fine glauconite grains grading to		
		10	arenaceous grains grading in part to SILTY SANDSTONE, trace calcareous, trace very fine glauconite, trace micromicaceous, soft to dominantly firm, sub fissile to sub		
3715.0 - 3720.0 50 GLAUCONITIC SANDSTONE : as above	3715.0 - 3720.0	50	GLAUCONITIC SANDSTONE: as above		
30 SILTSTONE: as above		30	SILTSTONE: as above		



In	iterv (m)	/al	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
3715.0	-	3720.0	20	SANDY SILTSTONE: as above		
3720.0	-	3725.0	50	GLAUCONITIC SANDSTONE: as above		
			30	SANDY SILTSTONE: as above		
			20	SILTSTONE: as above		
3725.0	-	3730.0	50	GLAUCONITIC SANDSTONE: as above		
			30	SILTSTONE: as above		
			20	SANDY SILTSTONE: as above		
3730.0	-	3735.0	50	GLAUCONITIC SANDSTONE: 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	SANDY SILTSTONE: as above.		
			20	SILTSTONE: 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	GLAUCONITIC SANDSTONE: as above		
			20	SILTSTONE: 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 SILTSTONE: as above		
3740.0	-	3745.0	80	GLAUCONITIC SANDSTONE: as above		
			10 10	SILTSTONE: as above SILTSTONE: as above		
07450		07500				
3745.0	-	3750.0	80	GLAUCONITIC SANDSTONE: as above		
			10 10	SILTSTONE: as above SILTSTONE: as above		
3750.0	-	3755.0	75	GLAUCONITIC SANDSTONE: 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	SILTSTONE: 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	SILTSTONE: 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	SILTSTONE: 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	SILTSTONE: 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	GLAUCONITIC SANDSTONE: 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.		
3760.0	-	3765.0	40	SILTSTONE: SILTSTONE 2. olive grey to dark olive grey, greyish brown to dusky brown, non calcareous, very arenaceous grading to SANDY SILTSTONE, trace to	Dogo	



Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
· · · ·		common micromicaceous, trace nodular pyrite, trace fine glauconite grains firm,		
		dominantly sub fissile to sub blocky.		
	30	SILTSTONE: SILTSTONE 1. off white to light grey, light greenish grey, rare to minor		
		very fine arenaceous grains, trace calcareous, trace very fine glauconite, trace		
	45	micromicaceous, soft to dominantly firm, sub fissile to sub blocky		
	15	GLAUCONITIC SANDSTONE: 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.		
	15	SANDSTONE: clear to translucent, trace pale green, fine to very coarse, dominantly		
	10	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	SANDSTONE: 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.		
	30	SILTSTONE: as above		
	15	SILTSTONE: as above		
	5	GLAUCONITIC SANDSTONE: as above		
3770.0 - 3775.0	60	SANDSTONE: 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.		
	30	SILTSTONE: as above		
	5	SILTSTONE: as above		
	5	GLAUCONITIC SANDSTONE: as above		
3775.0 - 3780.0	80	SANDSTONE: 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.		
	20	SILTSTONE: 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, trace fine glauconite grains firm, dominantly		
	•	sub fissile to sub blocky.		
	0	SILTSTONE: trace cavings as above		
	0	GLAUCONITIC SANDSTONE: trace cavings as above		
3780.0 - 3785.0	85	SANDSTONE: 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.		
	15	SILTSTONE: olive grey to dark olive grey, greyish brown to dusky brown, non		
	10	calcareous, very arenaceous grading to SANDY SILTSTONE, trace to common		
		micromicaceous, trace nodular pyrite, trace fine glauconite grains firm, dominantly		
		sub fissile to sub blocky.		
3785.0 - 3790.0	75	SANDSTONE: 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.		
	25	SILTSTONE: as above		
3790.0 - 3795.0	80	SANDSTONE: 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.		
	20	SILTSTONE: as above		
3795.0 - 3800.0	85	SANDSTONE: 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		
	45	porosity, no hydrocarbon fluorescence.		
	15	SILTSTONE: as above		

Elver-1 Cuttings Description Report

	Interval (m)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
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