

**LAKES OIL N.L.****CUTTINGS DESCRIPTIONS****WELL NAME:** TRIFON No.2**DATE:** 4th May, 2004**GEOLOGIST:** David Horner**PAGE:** 1

Interval (m)	%	Description
Surface-10	80	SANDSTONE: medium red brown, very fine to very coarse, dominantly coarse, angular to subrounded, very poorly sorted, no visible cement, abundant red brown argillaceous and silt matrix, quartzose with common strong orange brown staining, unconsolidated, good inferred porosity, no oil fluorescence.
	20	CLAYSTONE: red brown, very silty, abundant dispersed very fine to very coarse quartz sand grains, very soft, sticky.
10-20	100	CLAYSTONE: as for surface-10m.
20-30	60	SANDSTONE: medium green grey, very fine to very coarse, dominantly coarse, angular to subrounded, very poorly sorted, no visible cement, abundant medium green grey argillaceous matrix, quartzose, unconsolidated, good inferred porosity, no oil fluorescence.
	40	CLAYSTONE: medium green grey, moderately to very silty, abundant dispersed very fine to very coarse quartz sand grains in part, very soft, sticky.
30-40	100	SANDSTONE: light orange brown, very fine to very coarse, dominantly coarse, angular to subrounded, very poorly sorted, no visible cement, trace orange brown argillaceous matrix, quartzose with common orange brown staining, unconsolidated, very good inferred porosity, no oil fluorescence.
40-50	100	SANDSTONE: light to medium grey, very fine to grit, dominantly coarse, subangular to rounded, very poorly sorted, no visible cement, common medium grey argillaceous and silt matrix, quartzose, common dark grey to black cherty lithics, trace black coal detritus, unconsolidated, very good inferred porosity, no oil fluorescence.
50-80	100	SANDSTONE: medium grey, very fine to grit, dominantly coarse, subangular to rounded, very poorly sorted, no visible cement, common medium grey argillaceous and silt matrix, quartzose, common dark grey to black cherty lithics, trace black coal detritus, unconsolidated, very good inferred porosity, no oil fluorescence.
80-90	100	SANDSTONE: medium grey, very fine to grit, dominantly medium, subangular to rounded, very poorly sorted, no visible cement, common medium grey argillaceous and silt matrix, quartzose, common dark grey to black cherty lithics, trace black coal detritus, unconsolidated, very good inferred porosity, no oil fluorescence.
90-100	50	SANDSTONE: as for 80-90m.
	50	MARL: medium green grey to medium grey, very argillaceous, abundant shell fragments, common forams, trace black coal detritus, very soft, sticky, non fissile.
100-120	20	SANDSTONE: as for 80-90m.
	80	MARL: as for 90-100m.
120-140	10	SANDSTONE: as for 80-90m.
	90	MARL: as for 90-100m.
140-170	100	CALCARENITE: light to medium grey to medium brown grey, coarse grained, abundant shell fragments and bryozoa, trace dispersed very fine to coarse quartz sand grains, slightly argillaceous, friable, fair inferred porosity.
170-180	100	CALCARENITE: light yellow brown, coarse grained, abundant shell fragments and bryozoa, trace dispersed very fine to coarse quartz sand grains, slightly argillaceous, trace black coal detritus, friable, fair inferred porosity.

Interval (m)	%	Description	PAGE: 2
180-200	100	CALCARENITE: light brown to medium grey, very fine to coarse grained, common very fine shell fragments and bryozoa, trace dispersed very fine to coarse quartz sand grains, moderately argillaceous, trace black coal detritus, friable, poor to fair inferred porosity.	
200-210	100	CALCARENITE: light to medium green grey, very fine to coarse grained, common very fine shell fragments and bryozoa, trace dispersed very fine to coarse quartz sand grains, slightly to moderately argillaceous, trace light brown chert, trace black coal detritus, friable, poor to fair inferred porosity.	
210-220	30	SANDSTONE: light to medium grey, very fine to medium, dominantly fine, subangular to rounded, poorly sorted, very weak calcareous cement, trace medium grey argillaceous and calcareous matrix, quartzose, trace dark grey to black cherty lithics, trace black coal detritus, unconsolidated to friable, fair good inferred porosity, no oil fluorescence.	
	70	CALCARENITE: as for 200-210m.	
220-230	100	CALCARENITE: medium brown grey, very fine to coarse dominantly fine grained, abundant bryozoa, common shell fragments, moderately argillaceous, trace glauconite, trace black coal detritus, friable, poor to fair inferred porosity.	
230-250	100	CALCARENITE: medium grey to medium brown grey, very fine to coarse dominantly fine grained, abundant bryozoa, common shell fragments, moderately argillaceous, trace glauconite, trace black coal detritus, friable, poor to fair inferred porosity.	
250-290	100	CALCARENITE: light grey to medium brown grey, very fine to coarse, dominantly fine, moderate calcareous cement, abundant bryozoa, common shell fragments echinoid spines and forams, slightly to moderately argillaceous, common glauconite, trace fine black coal detritus, friable, poor inferred porosity.	
290-300	100	CALCARENITE: light grey to medium brown grey, very fine to coarse, dominantly fine, moderate calcareous cement, abundant bryozoa, common shell fragments echinoid spines and forams, slightly to moderately argillaceous - marly in part, common glauconite, trace fine black coal detritus, friable, poor inferred porosity.	
300-315	100	CALCARENITE: light grey to medium brown grey, very fine to coarse, dominantly fine, moderate calcareous cement, calcilutitic in part, abundant bryozoa, common shell fragments echinoid spines and forams, slightly to moderately argillaceous - marly in part, common glauconite, trace fine black coal detritus, friable, poor inferred porosity.	
315-320	50	CALCARENITE: light grey to light brown grey, very fine to fine, very calcilutitic in part, common bryozoa, trace shell fragments echinoid spines and forams, moderately argillaceous - marly in part, trace glauconite, trace fine black coal detritus, friable, very poor inferred porosity.	
	50	CALCILUTITE: light grey, moderately argillaceous, arenitic in part, trace fossil fragments, soft, sticky.	
320-340	60	CALCARENITE: as for 315-320m.	
	40	CALCILUTITE: as for 315-320m.	
340-350	70	CALCARENITE: light grey to light brown grey, very fine to fine, very calcilutitic in part, abundant bryozoa, common shell fragments echinoid spines and forams, moderately argillaceous, trace to common glauconite, trace fine black carbonaceous detritus, friable, very poor inferred porosity.	
	30	CALCILUTITE: as for 315-320m.	
350-360	90	CALCARENITE: as for 340-350m.	
	10	CALCILUTITE: light grey to light brown grey, moderately argillaceous, finely calcarenitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.	
360-380	70	CALCARENITE: as for 340-350m.	
	30	CALCILUTITE: as for 350-360m.	

380-390	90	CALCARENITE: light grey to light brown grey, very fine to fine, very calcilititic in part, abundant bryozoa, common shell fragments echinoid spines and forams, moderately argillaceous, trace glauconite, trace fine black carbonaceous detritus, friable, very poor inferred porosity.	
	10	CALCILUTITE: as for 350-360m.	
390-405	70	CALCARENITE: as for 380-390m.	
	30	CALCILUTITE: light grey to light brown grey, moderately to very argillaceous, finely calcarenitic and calcisiltitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.	
405-417	60	CALCARENITE: light grey to light brown grey, very fine to fine, very calcilititic in part, abundant bryozoa, common shell fragments echinoid spines and forams, moderately to very argillaceous, trace glauconite, trace fine black carbonaceous detritus, friable, very poor inferred porosity.	
	40	CALCILUTITE: as for 390-405m.	
417-435	70	CALCARENITE: as for 405-417m.	
	30	CALCILUTITE: as for 390-405m.	
435-447	60	CALCARENITE: light grey to light brown grey, very fine to fine, very calcilititic in part, common bryozoa, trace shell fragments echinoid spines and forams, moderately to very argillaceous, trace glauconite, friable, very poor inferred porosity.	
	40	CALCILUTITE: light grey to light brown grey, moderately to very argillaceous - occasionally grading to marl, finely calcarenitic and calcisiltitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.	
447-453	70	CALCARENITE: as for 435-447m.	
	30	CALCILUTITE: as for 435-447m.	
453-459	50	CALCARENITE: light grey to light brown grey, very fine to fine, very calcilititic in part, common bryozoa, trace shell fragments echinoid spines and forams, moderately to very argillaceous - grades to marl in part, trace glauconite, friable, very poor inferred porosity.	
	40	CALCILUTITE: light grey to light brown grey, moderately to very argillaceous - grades to marl, calcisiltitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.	
	10	MARL: medium grey to medium brown grey, calcisiltitic in part, trace bryozoa and forams, rare glauconite, soft, non fissile.	
459-465	30	CALCARENITE: as for 453-459m.	
	40	CALCILUTITE: as for 453-459m.	
	30	MARL: as for 453-459m.	
465-471	20	CALCARENITE: as for 453-459m.	
	40	CALCILUTITE: as for 453-459m.	
	40	MARL: as for 453-459m.	

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Interval (m)	%	Description
471-483	10	CALCARENITE: light grey to light brown grey, very fine to fine, very calcilitic in part, common bryozoa, trace shell fragments echinoid spines and forams, moderately to very argillaceous - grades to marl in part, trace glauconite, friable, very poor inferred porosity.
	80	CALCILUTITE: light grey to light brown grey, moderately to very argillaceous - grades to marl, calcisiltitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.
	10	MARL: medium grey to medium brown grey, calcisiltitic in part, trace bryozoa and forams, rare glauconite, soft, non fissile.
483-489	80	CALCILUTITE: as for 471-483m.
	20	MARL: as for 471-483m.
489-492	70	CALCILUTITE: as for 471-483m.
	30	MARL: medium grey to medium brown grey, calcisiltitic in part, very argillaceous grading to claystone in part, trace bryozoa and forams, rare glauconite, soft, non fissile.
492-501	80	CALCILUTITE: light grey to light brown grey, moderately to very argillaceous - grades to marl, calcisiltitic in part, trace medium brown cryptocrystalline dolomite, common bryozoa, trace forams, trace glauconite, soft to firm, non fissile.
	20	MARL: as for 489-492m.
501-510	70	CALCILUTITE: off white to light grey to light brown grey, slightly to very argillaceous - grades to marl, calcisiltitic and calcarenitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.
	30	MARL: medium grey to medium brown grey, calcisiltitic in part, occasionally very argillaceous, trace bryozoa and forams, rare glauconite, soft, non fissile.
510-513	60	CALCILUTITE: as for 501-510m.
	40	MARL: as for 501-510m.
513-525	50	CALCILUTITE: as for 501-510m.
	50	MARL: as for 501-510m.
525-528	40	CALCILUTITE: as for 501-510m.
	60	MARL: as for 501-510m.
528-531	30	CALCILUTITE: as for 501-510m.
	70	MARL: medium grey to medium brown grey, rarely medium green grey, calcisiltitic in part, occasionally very argillaceous, trace bryozoa and forams, rare glauconite, soft, non fissile.
531-540	50	CALCILUTITE: off white to light grey to light brown grey, slightly to very argillaceous - grades to marl, calcisiltitic and calcarenitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.
	50	MARL: as for 528-531m.
540-549	60	CALCILUTITE: as for 531-540m.
	40	MARL: as for 528-531m.

Interval (m)	%	Description	PAGE: 2
549-561	70	CALCILUTITE: as for 531-540m.	
	30	MARL: as for 528-531m.	
561-564	50	CALCILUTITE: off white to light green grey to light brown grey, slightly to very argillaceous - grades to marl, calcisiltitic and calcarenitic in part, trace bryozoa and forams, trace glauconite, soft to firm, non fissile.	
	50	MARL: medium green grey to medium brown grey, calcisiltitic in part, occasionally very argillaceous, trace bryozoa and forams, rare glauconite, soft, non fissile.	
564-567	20	CALCARENITE: as for 561-564m.	
	80	MARL: as for 561-564m.	
567-576	100	MARL: light to medium green grey to medium grey, very calcareous, trace bryozoa and forams, rare glauconite, rare pyrite, soft, non fissile.	
576-585	100	MARL: light to medium green grey to medium grey, occasionally medium brown grey, very calcareous, trace bryozoa and forams, rare glauconite, rare pyrite, soft, non fissile.	
585-594	100	MARL: light to medium green grey to medium grey, rarely medium brown grey, very calcareous, trace bryozoa and forams, rare glauconite, soft, non fissile.	
594-600	100	MARL: light to medium green grey to medium grey, rarely medium brown grey, very calcareous, common bryozoa and forams, rare glauconite, soft, non fissile.	
600-618	100	MARL: light to medium green grey to medium grey, rarely medium brown grey, very calcareous, trace bryozoa and forams, rare glauconite, soft, non fissile.	
618-630	100	MARL: light to medium green grey to light to medium grey, rarely medium brown grey, very calcareous, trace bryozoa and forams, rare glauconite, soft, non fissile.	
630-636	100	MARL: medium green grey to medium brown grey, trace bryozoa and forams, rare glauconite, soft, non fissile.	
636-651	100	MARL: medium brown grey, light to medium green grey, trace bryozoa and forams, trace glauconite, soft, non fissile.	
651-654	100	MARL: off white to medium brown grey, light to medium green grey, trace bryozoa and forams, trace glauconite, soft, non fissile.	
654-666	100	MARL: off white to medium brown grey, light to medium green grey, trace bryozoa and forams, common glauconite, soft, non fissile.	
666-681	100	MARL: medium grey to medium brown grey to medium green grey, trace bryozoa and forams, abundant glauconite, soft, non fissile.	
681-684	100	MARL: medium grey to medium brown grey to medium green grey, trace cryptocrystalline dolomite, trace bryozoa and forams, abundant glauconite, soft, non fissile.	
684-687	90	MARL: as for 681-684m.	
	10	DOLOMITE: medium brown, cryptocrystalline, trace glauconite, moderately argillaceous and calcareous in part, hard.	
687-690	30	SANDSTONE: light grey brown, very fine to dominantly fine, subangular to subrounded, moderately sorted, weak calcareous cement, abundant medium brown grey argillaceous and silt matrix, quartzose, abundant glauconite grains, friable, poor inferred porosity, no oil fluorescence.	
	10	COAL: very dark brown to black, earthy texture, blocky fracture, very argillaceous, moderately hard.	
	10	DOLOMITE: as for 684-687m.	
	50	MARL: as for 681-684m.	

Interval (m)	%	Description	PAGE: 3
690-693	40	SANDSTONE: light grey brown, very fine to fine, occasional medium grains, dominantly fine, subangular to subrounded, moderately sorted, weak calcareous cement, abundant medium brown grey argillaceous and silt matrix, quartzose, abundant glauconite grains, friable, poor inferred porosity, no oil fluorescence.	
	50	CLAYSTONE: medium brown to medium brown grey, very silty, very finely to finely arenaceous in part, slightly to very carbonaceous, trace pyrite, soft, very dispersive, non fissile.	
	10	MARL: as for 681-684m.	
693-696	10	SANDSTONE: as for 690-693m.	
	40	COAL: dark brown to black, earthy texture, blocky fracture, very argillaceous, firm to moderately hard.	
	50	CLAYSTONE: as for 690-693m.	
696-699	10	SANDSTONE: as for 690-693m.	
	80	COAL: as for 693-696m.	
	10	CLAYSTONE: as for 690-693m.	
699-702	50	SANDSTONE: light grey brown, very fine to medium, dominantly fine, trace coarse to very coarse grains, subangular to subrounded, moderately sorted, weak calcareous cement, abundant medium brown grey argillaceous and silt matrix, clear to opaque quartz grains, abundant glauconite grains, trace black coaly detritus, friable, poor inferred porosity, no oil fluorescence.	
	30	COAL: as for 693-696m.	
	20	CLAYSTONE: as for 690-693m.	
702-705	20	SANDSTONE: as for 699-702m.	
	60	COAL: dark brown to occasionally black, earthy texture, blocky fracture, moderately to very argillaceous, firm to moderately hard.	
	20	CLAYSTONE: medium brown to medium brown grey, very silty, often very finely to finely arenaceous, slightly to very carbonaceous, rare pyrite, soft, very dispersive, non fissile.	
705-708	10	SANDSTONE: as for 699-702m.	
	80	COAL: as for 702-705m.	
	10	CLAYSTONE: as for 702-705m.	
708-711	10	SANDSTONE: as for 699-702m.	
	50	COAL: as for 702-705m.	
	40	CLAYSTONE: as for 702-705m.	
711-717	10	SANDSTONE: light brown, very fine to medium, dominantly fine, trace coarse to very coarse grains, subangular to subrounded, poorly sorted, weak calcareous cement, abundant medium brown grey argillaceous and silt matrix, clear to opaque quartz grains often with brown argillaceous stain, trace black coaly detritus, friable, poor inferred porosity, no oil fluorescence. Note: sample contaminated with biocarb (fine CaCO <sub>3</sub> sand).	
	20	COAL: dark brown to black, earthy texture, blocky fracture, moderately to very argillaceous, firm to moderately hard.	

	50	CLAYSTONE: medium brown to medium brown grey, very silty, often very finely to finely arenaceous, slightly to very carbonaceous, rare pyrite, soft, very dispersive and washing from sample, non fissile.	
717-720	30	SANDSTONE: as for 711-717m.	
	20	COAL: as for 711-717m.	
	50	CLAYSTONE: medium brown to medium brown grey, very silty, often very finely to finely arenaceous, slightly to very carbonaceous, rare pyrite, soft, very dispersive and washing from sample, non fissile.	
720-723	30	SANDSTONE: light brown, very fine to medium, dominantly fine to medium, common coarse to very coarse grains, subangular to subrounded, poorly sorted, weak calcareous cement, abundant medium brown grey argillaceous and silt matrix, clear to opaque quartz grains often with brown argillaceous stain, trace black coaly detritus, friable, fair to good inferred porosity, no oil fluorescence. Note: sample contaminated with biocarb (fine CaCO <sub>3</sub> sand).	
	70	CLAYSTONE: as for 717-720m.	
723-726	80	SANDSTONE: light brown, very fine to medium, dominantly fine to medium, common coarse to very coarse grains, subangular to subrounded, poorly sorted, weak calcareous and silica cement, abundant medium brown grey argillaceous and silt matrix, clear to opaque quartz grains often with brown argillaceous stain, trace black coaly detritus, friable, fair to good inferred porosity, no oil fluorescence. Note: sample contaminated with biocarb (fine CaCO <sub>3</sub> sand).	
	20	CLAYSTONE: medium brown, very silty, often abundant dispersed very fine to medium quartz sand grains, slightly to very carbonaceous, soft, very dispersive and washing from sample, non fissile.	

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Interval (m)	%	Description
726-729	80	SANDSTONE: light brown, very fine to very coarse, dominantly medium, subangular to subrounded, very poorly sorted, weak calcareous and silica cement, abundant medium brown grey argillaceous and silt matrix, clear to opaque quartz grains often with brown argillaceous stain, trace dark grey green lithics, trace black coaly detritus, friable, fair to good inferred porosity, no oil fluorescence. Note: sample contaminated with biocarb (fine CaCO3 sand).
	20	CLAYSTONE: medium brown, very silty, often abundant dispersed very fine to medium quartz sand grains, slightly to very carbonaceous, soft, very dispersive and washing from sample, non fissile.
729-732	100	SANDSTONE: light brown grey, very fine to very coarse, dominantly medium, angular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, friable, very good inferred porosity, no oil fluorescence.
732-735	100	SANDSTONE: light brown grey, very fine to grit, dominantly medium to coarse, angular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, friable, very good inferred porosity, no oil fluorescence.
735-747	100	SANDSTONE: light brown grey, very fine to grit, dominantly coarse, angular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.
747-759	100	SANDSTONE: light brown grey, very fine to grit, dominantly medium, angular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.
759-777	100	SANDSTONE: light brown grey, very fine to grit, dominantly coarse, angular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.
777-783	100	SANDSTONE: light brown grey, very fine to grit, dominantly medium to coarse, angular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.
783-795	100	SANDSTONE: light brown grey, very fine to grit, dominantly medium to coarse, subangular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, friable, very good inferred porosity, no oil fluorescence.
795-801	100	SANDSTONE: light brown grey, very fine to very coarse, dominantly fine to medium, subangular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, friable, very good inferred porosity, no oil fluorescence.

Interval (m)	%	Description	PAGE: 2
801-807	90	SANDSTONE: light brown grey, very fine to very coarse, dominantly medium to coarse, subangular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	
	10	CLAYSTONE: dark brown grey, very silty, very carbonaceous, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
807-813	70	SANDSTONE: as for 801-807m.	
	20	CLAYSTONE: as for 801-807m.	
	10	COAL: dark brown to black, moderately to very argillaceous, earthy texture, blocky fracture, moderately hard.	
813-825	100	SANDSTONE: light brown grey, very fine to very coarse, dominantly medium, subangular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	
825-837	100	SANDSTONE: very light brown grey, very fine to very coarse, dominantly coarse, subangular to rounded, very poorly sorted, weak silica cement, common medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	
837-843	20	SANDSTONE: as for 825-837m.	
	80	CLAYSTONE: dark brown grey, very silty, very carbonaceous, soft, very dispersive, non fissile.	
843-849	60	SANDSTONE: very light brown grey, very fine to very coarse, dominantly coarse, subangular to rounded, very poorly sorted, weak silica cement, common to abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace to common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	
	30	CLAYSTONE: dark brown grey, very silty, very carbonaceous, common dispersed very fine to medium quartz sand grains in part, soft, very dispersive, non fissile.	
	10	COAL: dark brown to black, slightly to dominantly very argillaceous, earthy texture, blocky fracture, moderately hard, brittle where clean.	
849-858	20	SANDSTONE: as for 843-849m.	
	70	CLAYSTONE: as for 843-849m.	
	10	COAL: as for 843-849m.	
858-867	40	SANDSTONE: very light brown grey, very fine to grit, dominantly coarse, subangular to rounded, very poorly sorted, weak silica cement, common to abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace to common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	
	50	CLAYSTONE: as for 843-849m.	
	10	COAL: as for 843-849m.	
867-870	70	SANDSTONE: very light brown grey, very fine to grit, dominantly medium to coarse, subangular to rounded, very poorly sorted, weak silica cement, common to abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace coarse clear mica flakes, trace to common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	

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	30	CLAYSTONE: as for 843-849m.	
870-873	100	SANDSTONE: very light brown grey, very fine to grit, dominantly coarse, subangular to rounded, very poorly sorted, weak silica cement, common to abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace coarse clear mica flakes, trace to common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	
873-876	30	SANDSTONE: as for 870-873m.	
	60	CLAYSTONE: medium to very dark brown, very silty, very carbonaceous, common dispersed very fine to medium quartz sand grains in part, soft, very dispersive, non fissile.	
	10	COAL: as for 843-849m.	
876-879	20	SANDSTONE: as for 870-873m.	
	50	CLAYSTONE: as for 873-876m.	
	30	COAL: dark brown to black, slightly to dominantly very argillaceous, earthy texture, blocky fracture, moderately hard, brittle where clean.	
879-885	20	SANDSTONE: very light brown grey, very fine to grit, dominantly coarse, subangular to rounded, very poorly sorted, weak silica cement, abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains with minor brown argillaceous stain, trace grey green lithics, trace coarse clear mica flakes, trace to common black coaly detritus, friable, poor to good inferred porosity, no oil fluorescence.	
	60	CLAYSTONE: medium brown to very dark brown, very silty, very carbonaceous, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
	20	COAL: as for 876-879m.	
885-894	10	SANDSTONE: as for 879-885m.	
	90	CLAYSTONE: as for 879-885m.	
894-897	70	CLAYSTONE: as for 879-885m.	
	30	COAL: dark brown to black, slightly to dominantly very argillaceous, earthy texture, blocky fracture, moderately hard, brittle where clean.	
897-906	10	SANDSTONE: as for 879-885m.	
	90	CLAYSTONE: medium brown to brown black, very silty, very carbonaceous, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
	Trace	COAL: as for 894-897m.	
906-915	10	SANDSTONE: as for 879-885m.	
	80	CLAYSTONE: medium brown to brown black, occasionally off white, very silty, very carbonaceous, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
	10	COAL: as for 894-897m.	
915-918	Trace	SANDSTONE: as for 879-885m.	
	90	CLAYSTONE: as for 906-915m.	
	10	COAL: as for 894-897m.	

918-924	30	SANDSTONE: light grey to light brown grey, very fine to very coarse, dominantly coarse, subangular to rounded, very poorly sorted, weak silica cement, abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains occasionally with brown argillaceous stain, trace grey green lithics, trace coarse clear mica flakes, common black coaly detritus, friable, poor to good inferred porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 906-915m.	
	30	COAL: dark brown to black, slightly to dominantly very argillaceous, earthy to occasionally subvitreous texture, blocky to occasionally subconchoidal fracture, moderately hard, brittle where clean.	
924-927	Trace	SANDSTONE: as for 918-924m.	
	30	CLAYSTONE: medium brown to brown black, very silty, very carbonaceous, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
	70	COAL: as for 918-924m.	
927-933	Trace	SANDSTONE: as for 918-924m.	
	90	CLAYSTONE: as for 924-927m.	
	10	COAL: as for 918-924m.	
933-936	60	SANDSTONE: light brown grey, very fine to very coarse, dominantly medium to coarse, angular to subrounded, very poorly sorted, weak silica cement, abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains occasionally with brown argillaceous stain, trace grey green lithics, common black coaly detritus, friable, poor to good inferred porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 924-927m.	
936-939	30	SANDSTONE: as for 933-936m.	
	60	CLAYSTONE: medium to very dark brown, very silty, very carbonaceous, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
	10	COAL: dark brown to black, moderately to very argillaceous, earthy texture, blocky fracture, moderately hard, brittle where clean.	
939-942	50	SANDSTONE: as for 933-936m.	
	50	CLAYSTONE: as for 936-939m.	
942-948	70	SANDSTONE: light brown grey, very fine to very coarse, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains occasionally with brown argillaceous stain, trace grey green lithics, common black coaly detritus, friable, poor to good inferred porosity, no oil fluorescence.	
	30	CLAYSTONE: medium to very dark brown, very silty, very carbonaceous - grading to argillaceous coal, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
948-951	50	SANDSTONE: as for 942-948m.	
	40	CLAYSTONE: as for 942-948m.	
	10	COAL: dark brown to black, moderately to very argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.	
951-954	10	SANDSTONE: as for 942-948m.	
	20	CLAYSTONE: as for 942-948m.	

	70	COAL: as for 948-951m.
954-957	20	CLAYSTONE: medium to very dark brown, very silty, very carbonaceous - grading to argillaceous coal, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.
	80	COAL: as for 948-951m.

**LAKES OIL N.L.****CUTTINGS DESCRIPTIONS****WELL NAME:** TRIFON No.2**DATE:** 11-05-04**GEOLOGIST:** David Horner**PAGE:** 1

Interval (m)	%	Description
957-960	70	SANDSTONE: light brown grey, very fine to very coarse, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, abundant medium brown argillaceous and silt matrix, clear to opaque quartz grains occasionally with brown argillaceous stain, trace grey green lithics, common black coaly detritus, friable, poor to good inferred porosity, no oil fluorescence.
	10	CLAYSTONE: medium to very dark brown, very silty, very carbonaceous - grading to argillaceous coal, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.
	20	COAL: dark brown to black, moderately to very argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.
960-966	10	SANDSTONE: as for 957-960m.
	40	CLAYSTONE: as for 957-960m.
	50	COAL: very dark brown to black, moderately to very argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.
966-969	80	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, trace to common medium brown argillaceous and silt matrix, clear to opaque quartz grains, trace grey green lithics, trace to common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.
	10	CLAYSTONE: as for 957-960m.
	10	COAL: as for 960-966m.
969-975	100	SANDSTONE: as for 966-969m.
975-978	100	SANDSTONE: light grey to light brown grey, very fine to pebble, dominantly very coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.
978-981	80	SANDSTONE: as for 975-978m.
	20	CLAYSTONE: off white to medium grey, non to occasionally very silty, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.
981-984	100	SANDSTONE: light grey to light brown grey, very fine to very coarse, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.
984-987	100	SANDSTONE: light grey to light brown grey, very fine to pebble, dominantly very coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.
987-990	90	SANDSTONE: as for 984-987m.
	10	CLAYSTONE: off white to medium grey, non to occasionally very silty, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.

Interval (m)	%	Description	PAGE: 2
990-996	70	SANDSTONE: as for 984-987m.	
	30	CLAYSTONE: as for 987-990m.	
996-1002	80	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly coarse to very coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coaly detritus, friable, very good inferred porosity, no oil fluorescence.	
	20	CLAYSTONE: off white to medium brown grey, non to very silty, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
1002-1008	30	SANDSTONE: as for 996-1002m.	
	40	CLAYSTONE: as for 996-1002m.	
	30	COAL: dark brown to black, slightly to moderately argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.	
1008-1011	30	CLAYSTONE: light brown to dark brown grey, non to very silty, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
	70	COAL: as for 1008-1011m.	
1011-1014	40	CLAYSTONE: as for 1008-1011m.	
	60	COAL: as for 1008-1011m.	
1014-1017	40	SANDSTONE: light brown, very fine to very coarse, dominantly fine, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coal detritus, friable, fair to good inferred porosity, no oil fluorescence.	
	50	CLAYSTONE: as for 1008-1011m.	
	10	COAL: as for 1008-1011m.	
1017-1023	80	SANDSTONE: light brown, very fine to very coarse, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coal detritus, friable, good inferred porosity, no oil fluorescence.	
	20	CLAYSTONE: off white to medium brown, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
1023-1029	100	SANDSTONE: light brown, very fine to pebble, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coal detritus, friable, very good inferred porosity, no oil fluorescence.	
1029-1032	100	SANDSTONE: light brown, very fine to pebble, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coal detritus, rare pyrite, friable, very good inferred porosity, no oil fluorescence.	
1032-1035	100	SANDSTONE: light brown, very fine to very coarse, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coal detritus, rare pyrite, friable, very good inferred porosity, no oil fluorescence.	
1035-1041	100	SANDSTONE: light brown, very fine to grit, dominantly coarse to very coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coal detritus, friable, very good inferred porosity, no oil fluorescence.	

1041-1044	20	SANDSTONE: as for 1035-1041m.	
	60	CLAYSTONE: off white to medium brown, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
	20	COAL: dark brown to black, slightly to moderately argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.	
1044-1047	80	SANDSTONE: as for 1035-1041m.	
	20	CLAYSTONE: as for 1041-1044m.	
	10	COAL: as for 1041-1044m.	
1047-1053	50	SANDSTONE: light brown, very fine to grit, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, occasional yellow orange quartz grains, trace grey green lithics, common black coal detritus, friable, very good inferred porosity, no oil fluorescence.	
	50	CLAYSTONE: off white to medium grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, soft, very dispersive, non fissile.	
1053-1059	80	SANDSTONE: as for 1047-1053m.	
	20	CLAYSTONE: as for 1047-1053m.	
1059-1065	100	SANDSTONE: light brown, very fine to grit, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, trace yellow orange quartz grains, trace grey green lithics, trace to common black coal detritus, friable, very good inferred porosity, no oil fluorescence.	
1065-1077	100	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly very coarse, angular to subrounded, very poorly sorted, weak silica cement, trace off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	
1077-1086	100	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly very coarse, angular to subrounded, very poorly sorted, weak silica cement, common off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	
1086-1092	60	SANDSTONE: as for 1077-1086m.	
	30	CLAYSTONE: off white to medium brown grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, trace pyrite, trace black coal detritus, soft, very dispersive, non fissile.	
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.	
1092-1101	50	SANDSTONE: as for 1077-1086m.	
	50	CLAYSTONE: as for 1086-1092m.	
1101-1104	60	SANDSTONE: as for 1077-1086m.	
	40	CLAYSTONE: as for 1086-1092m.	
1104-1110	100	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	

1110-1116	80	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, fair to very good inferred porosity, no oil fluorescence.	
	20	CLAYSTONE: off white to medium grey to medium brown, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, trace pyrite, common black coal detritus, soft, very dispersive, non fissile.	
1116-1119	70	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, fair to very good inferred porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 1110-1116m.	
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.	
1119-1122	80	SANDSTONE: as for 1116-1119m.	
	20	CLAYSTONE: as for 1110-1116m.	
1122-1128	70	SANDSTONE: as for 1116-1119m.	
	30	CLAYSTONE: as for 1110-1116m.	
1128-1131	60	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, fair to very good inferred porosity, no oil fluorescence.	
	40	CLAYSTONE: off white medium brown, occasionally medium grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, trace pyrite, common black coal detritus, soft, very dispersive, non fissile.	
1131-1134	30	SANDSTONE: as for 1128-1131m.	
	60	CLAYSTONE: as for 1128-1131m.	
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.	
1134-1137	30	SANDSTONE: as for 1128-1131m.	
	70	CLAYSTONE: as for 1128-1131m.	

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Interval (m)	%	Description
1137-1143	20	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, fair to very good inferred porosity, no oil fluorescence.
	80	CLAYSTONE: medium brown grey to medium brown, occasionally medium grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, trace pyrite, common black coal detritus, soft, very dispersive, non fissile.
1143-1146	60	SANDSTONE: light grey to light brown grey, very fine to grit, dominantly medium to coarse, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, fair to very good inferred porosity, no oil fluorescence.
	30	CLAYSTONE: as for 1137-1143m.
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy texture, platy to blocky fracture, moderately hard, brittle where clean.
1146-1149	70	SANDSTONE: as for 1143-1146m.
	30	CLAYSTONE: as for 1137-1143m.
1149-1152	80	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.
	20	CLAYSTONE: as for 1137-1143m.
1152-1155	70	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly coarse, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.
	30	CLAYSTONE: off white to light brown to medium grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, common black coal detritus, trace pyrite, soft, very dispersive, non fissile.
1155-1158	100	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium to coarse, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace to common pyrite, friable, good inferred porosity, no oil fluorescence.
1158-1161	90	SANDSTONE: as for 1155-1158m.
	10	CLAYSTONE: as for 1152-1155m.
1161-1164	40	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.

	60	CLAYSTONE: off white to light brown to occasionally medium grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, common black coal detritus, trace pyrite, soft, very dispersive, non fissile.
1164-1167	30	SANDSTONE: as for 1161-1164m.
	60	CLAYSTONE: as for 1161-1164m.
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy to slightly subvitreous texture, platy to blocky fracture, moderately hard, brittle where clean.
1167-1170	80	SANDSTONE: as for 1161-1164m.
	20	CLAYSTONE: as for 1161-1164m.
1170-1173	60	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.
	30	CLAYSTONE: as for 1161-1164m.
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy to slightly subvitreous texture, platy to blocky fracture, moderately hard, brittle where clean.
1173-1176	20	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly fine, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.
	80	CLAYSTONE: light to medium brown to occasionally off white to medium grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, common black coal detritus, trace pyrite, soft, very dispersive, non fissile.
1176-1179	90	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace grey green lithics, trace mica flakes, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.
	10	CLAYSTONE: as for 1173-1176m.
1179-1185	80	SANDSTONE: as for 1176-1179m.
	20	CLAYSTONE: as for 1173-1176m.
1185-1188	30	SANDSTONE: as for 1176-1179m.
	60	CLAYSTONE: off white to light brown to occasionally medium grey, non to moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, common black coal detritus, trace pyrite, soft, very dispersive, non fissile.
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy to slightly subvitreous texture, platy to blocky fracture, moderately hard, brittle where clean.
1188-1191	80	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica cement, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace green black lithics, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.
	20	CLAYSTONE: as for 1185-1188m.
1191-1194	50	SANDSTONE: as for 1188-1191m.

Interval (m)	%	Description	PAGE: 3
	40	CLAYSTONE: as for 1185-1188m.	
	10	COAL: dark brown to black, slightly to moderately argillaceous, earthy to slightly subvitreous texture, blocky fracture, moderately hard, brittle where clean.	
1194-1197	60	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium to coarse, angular to subrounded, very poorly sorted, weak silica and calcareous cements, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace green black lithics, common black coal detritus, trace pyrite, friable, good inferred porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 1185-1188m.	
1197-1200	100	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium to coarse, angular to subrounded, very poorly sorted, weak silica and calcareous cements, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace green black lithics, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	
1200-1203	70	SANDSTONE: as for 1197-1200m.	
	30	CLAYSTONE: light to medium brown to occasionally medium grey, moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, common black coal detritus, trace pyrite, soft, very dispersive, non fissile.	
	Trace	COAL: as for 1191-1194m.	
1203-1206	30	SANDSTONE: as for 1197-1200m.	
	60	CLAYSTONE: as for 1200-1203m.	
	10	COAL: as for 1191-1194m.	
1206-1209	80	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly medium, angular to subrounded, very poorly sorted, weak silica and calcareous cements, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace green black lithics, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 1200-1203m.	
1209-1212	100	SANDSTONE: light grey to light brown grey, very fine to occasionally grit, dominantly coarse, angular to subrounded, very poorly sorted, weak silica and calcareous cements, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace green black lithics, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	
1212-1215	50	SANDSTONE: light grey to light brown grey, very fine to pebble, dominantly coarse, angular to subrounded, very poorly sorted, weak silica and calcareous cements, common to abundant off white argillaceous matrix, clear to opaque quartz grains, trace green black lithics, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	
	40	CLAYSTONE: medium brown to medium grey, moderately silty, abundant dispersed very fine to coarse quartz sand grains in part, common black coal detritus, trace pyrite, soft, very dispersive, non fissile.	
	10	COAL: very dark brown to black, slightly to moderately argillaceous, earthy to slightly subvitreous texture, blocky fracture, moderately hard, brittle where clean.	
1215-1224	80	SANDSTONE: light grey to light brown grey, very fine to pebble, dominantly coarse, angular to subrounded, very poorly sorted, weak silica and calcareous cements, common to abundant off white to light grey argillaceous matrix, clear to opaque quartz grains, trace green black lithics, common black coal detritus, trace pyrite, friable, very good inferred porosity, no oil fluorescence.	



**LAKES OIL N.L.****CUTTINGS DESCRIPTIONS****WELL NAME:** TRIFON No.2 Deepening**DATE:**23-07-04**GEOLOGIST:** David Horner**PAGE:** 1

<b>Interval (m)</b>	<b>%</b>	<b>Description</b>
1267-1272	100	CLAYSTONE: medium green grey to occasionally medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, slightly calcareous in part, trace micromica, soft to firm, non fissile.
1272-1275	20	CLAYSTONE: as for 1267-1272m.
	80	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica cement, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace orange brown lithics and quartz grains, trace fine black carbonaceous detritus, friable, nil to very poor visual porosity, no oil fluorescence.
1275-1278	10	CLAYSTONE: as for 1267-1272m.
	90	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace orange brown lithics and quartz grains, trace fine black carbonaceous detritus, friable, nil to very poor visual porosity, no oil fluorescence.
1278-1281	10	CLAYSTONE: as for 1267-1272m.
	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine to medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace orange brown lithics and quartz grains, trace fine black carbonaceous detritus, trace pyrite, friable, nil to very poor visual porosity, no oil fluorescence.
1281-1284	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and moderate calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace orange brown lithics and quartz grains, trace fine black carbonaceous detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.
1284-1287	80	SANDSTONE: as for 1281-1284m.
	20	CLAYSTONE: medium green grey to occasionally medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, slightly calcareous in part, trace micromica, soft to firm, non fissile.
1287-1290	70	SANDSTONE: as for 1281-1284m.
	30	CLAYSTONE: as for 1284-1287m.
1290-1299	Trace	SANDSTONE: as for 1281-1284m.
	100	CLAYSTONE: medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.
1299-1302	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace orange brown lithics and quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, no visual porosity, no oil fluorescence.
	80	CLAYSTONE: as for 1290-1299m.

Interval (m)	%	Description	PAGE: 2
1302-1308	70	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace orange brown lithics and quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	
	30	CLAYSTONE: as for 1290-1299m.	
1308-1317	40	SANDSTONE: as for 1302-1305m.	
	60	CLAYSTONE: medium brown grey to medium grey to medium green grey, moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1317-1320	20	SANDSTONE: as for 1302-1305m.	
	80	SANDSTONE: as for 1308-1317m.	
1320-1326	100	CLAYSTONE: medium green grey, occasionally medium grey to medium brown grey, moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1326-1329	50	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	
	50	CLAYSTONE: as for 1320-1326m.	
1329-1332	100	CLAYSTONE: as for 1320-1326m.	
1332-1335	10	SANDSTONE: light to medium green grey, very fine to occasionally fine, dominantly very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	
	90	CLAYSTONE: medium green grey, occasionally medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1335-1338	30	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	
	70	CLAYSTONE: as for 1335-1338m.	
1338-1344	20	SANDSTONE: light to medium green grey, very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix - matrix supported, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, no visual porosity, no oil fluorescence.	
	80	CLAYSTONE: as for 1335-1338m.	
1344-1347	30	SANDSTONE: light to medium green grey, very fine to fine, dominantly very fine, subangular to subrounded, moderately sorted, weak to moderate silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	

Interval (m)	%	Description	PAGE: 3
	70	CLAYSTONE: medium green grey to medium grey to medium brown grey, moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1347-1356	60	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak to moderate silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace fine black carbonaceous detritus, friable, nil to very poor visual porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 1344-1347m.	
1356-1359	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak to moderate silica and calcareous cements, common white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace fine black carbonaceous detritus, friable, poor visual porosity, no oil fluorescence.	
1359-1362	10	SANDSTONE: light to medium green grey, very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix - matrix supported, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace fine black carbonaceous detritus, rare pyrite, friable, no visual porosity, no oil fluorescence.	
	90	CLAYSTONE: light to medium brown grey to medium grey to medium green grey, slightly to very silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1362-1368	100	CLAYSTONE: as for 1359-1362m.	
1368-1380	70	SANDSTONE: light to medium green grey, very fine to occasionally coarse, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace fine black carbonaceous detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	30	CLAYSTONE: as for 1359-1362m.	
1380-1383	100	SANDSTONE: as for 1368-1380m.	
1383-1389	80	SANDSTONE: as for 1368-1380m.	
	20	CLAYSTONE: as for 1359-1362m.	
1389-1395	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics and quartz grains, trace fine black carbonaceous detritus, friable, no visual porosity, no oil fluorescence.	
	90	CLAYSTONE: light to medium green grey to medium grey to occasionally medium brown grey, slightly to very silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1395-1401	40	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common to abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	60	CLAYSTONE: light to medium green grey to medium grey to occasionally medium brown grey, very silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	

1401-1407	90	SANDSTONE: light to medium green grey, very fine to occasionally coarse, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor to fair visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1395-1401m.	
1407-1410	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common to abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
1410-1416	30	SANDSTONE: as for 1407-1410m.	
	70	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1416-1419	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, very poor to poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1410-1416m.	
1419-1428	10	SANDSTONE: as for 1416-1419m.	
	90	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1428-1431	30	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	
	70	CLAYSTONE: as for 1419-1428m.	
1431-1440	100	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1440-1443	40	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	60	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1443-1449	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, friable, no visual porosity, no oil fluorescence.	

	90	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, common black carbonaceous matter where brown, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1449-1455	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.	
	30	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1455-1458	40	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	
	60	CLAYSTONE: as for 1449-1455m.	
1458-1461	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine to medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common to abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1449-1455m.	
1461-1464	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor to fair visual porosity, no oil fluorescence.	
	30	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, common black carbonaceous matter where brown, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1464-1476	10	SANDSTONE: light to medium green grey, very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix - matrix supported, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, nil to very poor visual porosity, no oil fluorescence.	
	90	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	

**LAKES OIL N.L.****CUTTINGS DESCRIPTIONS****WELL NAME:** TRIFON No.2 Deepening**DATE:**24-07-04**GEOLOGIST:** David Horner**PAGE:** 1

<b>Interval (m)</b>	<b>%</b>	<b>Description</b>
1476-1479	100	CLAYSTONE: light to dark green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.
1479-1482	40	SANDSTONE: light to medium green grey, very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix - matrix supported, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.
	60	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.
1482-1488	20	SANDSTONE: as for 1479-1482m.
	80	CLAYSTONE: as for 1479-1482m.
1488-1491	50	SANDSTONE: as for 1479-1482m.
	50	CLAYSTONE: as for 1479-1482m.
1491-1494	60	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.
	40	CLAYSTONE: as for 1479-1482m.
1494-1497	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.
	80	CLAYSTONE: as for 1479-1482m.
1497-1503	10	SANDSTONE: light to medium green grey, very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix - matrix supported, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.
	90	CLAYSTONE: as for 1479-1482m.
1503-1509	70	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.
	30	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, common black coaly detritus, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.
1509-1512	60	SANDSTONE: as for 1503-1509m.

Interval (m)	%	Description	PAGE: 2
	40	CLAYSTONE: as for 1503-1509m.	
1512-1515	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor to fair visual porosity, no oil fluorescence.	
	20	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1515-1521	90	SANDSTONE: as for 1512-1515m.	
	10	CLAYSTONE: as for 1512-1515m.	
1521-1524	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine to medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	30	CLAYSTONE: light to medium green grey to medium grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1524-1527	90	SANDSTONE: as for 1521-1524m.	
	10	CLAYSTONE: as for 1521-1524m.	
1527-1530	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor to fair visual porosity, no oil fluorescence.	
	30	CLAYSTONE: as for 1521-1524m.	
1530-1536	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	80	CLAYSTONE: light to medium brown grey to medium grey to medium green grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1536-1539	60	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine to medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 1530-1536m.	
1539-1542	30	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	70	CLAYSTONE: as for 1530-1536m.	

Interval (m)	%	Description	PAGE: 3
1542-1545	60	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine to medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 1530-1536m.	
1545-1548	50	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace fine black carbonaceous detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	50	CLAYSTONE: off white to medium brown grey to medium grey to medium green grey, slightly to moderately silty, trace very fine black carbonaceous specks, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1548-1554	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor to poor visual porosity, no oil fluorescence.	
	20	CLAYSTONE: off white to medium brown grey to medium grey to medium green grey, moderately to very silty, trace very fine black carbonaceous specks and coaly detritus, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1554-1557	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor to poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1548-1554m.	
1557-1560	80	SANDSTONE: as for 1554-1557m.	
	20	CLAYSTONE: as for 1548-1554m.	
1560-1563	60	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, common white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor to poor visual porosity, no oil fluorescence.	
	40	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coaly detritus, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1563-1566	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	80	CLAYSTONE: off white to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coaly detritus, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	

Interval (m)	%	Description	PAGE: 4
1566-1569	10	SANDSTONE: light to medium green grey, very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	90	CLAYSTONE: as for 1566-1569m.	
1569-1578	60	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 1566-1569m.	
1578-1584	10	SANDSTONE: light to medium green grey, very fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	90	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coaly detritus, trace very fine altered feldspar grains in part, trace micromica, soft to firm, non fissile.	
1584-1587	40	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.	
	60	CLAYSTONE: as for 1578-1584m.	
1587-1590	60	SANDSTONE: as for 1584-1587m.	
	40	CLAYSTONE: as for 1578-1584m.	
1590-1593	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine to medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 1578-1584m.	
1593-1596	60	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine to medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
	40	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1596-1602	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, poor to fair visual porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 1593-1596m.	

1602-1605	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, abundant black coaly detritus, trace pyrite, friable, poor to fair visual porosity, no oil fluorescence.	
	30	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, moderately to very silty, abundant very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1605-1611	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, weak silica and calcareous cements, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, poor to fair visual porosity, no oil fluorescence.	
	30	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1611-1614	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, poor visual porosity, no oil fluorescence.	
1614-1617	50	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.	
	50	CLAYSTONE: off white to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1617-1623	80	SANDSTONE: as for 1614-1617m.	
	20	CLAYSTONE: as for 1614-1617m.	
1623-1626	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor to poor visual porosity, no oil fluorescence.	
1626-1629	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, very poor visual porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 1614-1617m.	
1629-1635	70	SANDSTONE: as for 1626-1629m.	
	30	CLAYSTONE: as for 1614-1617m.	

Interval (m)	%	Description	PAGE: 6
1635-1650	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.	
	90	CLAYSTONE: off white to medium brown grey to medium grey to medium green grey, moderately to very silty, trace very fine black carbonaceous specks and rare coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	

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Interval (m)	%	Description
1650-1656	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, trace pyrite, friable, no visual porosity, no oil fluorescence.
	90	CLAYSTONE: off white to medium brown grey to medium grey to medium green grey, moderately to very silty, trace very fine black carbonaceous specks and rare coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.
1656-1659	40	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, nil to very poor visual porosity, no oil fluorescence.
	60	CLAYSTONE: as for 1650-1656m.
1659-1668	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, common off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace to common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, very poor visual porosity, no oil fluorescence.
	30	CLAYSTONE: as for 1650-1656m.
1668-1674	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, common to abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, common quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, poor to fair visual porosity, no oil fluorescence.
	10	CLAYSTONE: as for 1650-1656m.
1674-1680	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, no visual porosity, no oil fluorescence.
	90	CLAYSTONE: light to medium green grey to medium grey to medium brown grey, moderately silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.
1680-1683	100	CLAYSTONE: as for 1674-1680m.
1683-1686	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly very fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, no visual porosity, no oil fluorescence.
	90	CLAYSTONE: as for 1674-1680m.

Interval (m)	%	Description	PAGE: 2
1686-1689	40	SANDSTONE: as for 1683-1686m.	
	60	CLAYSTONE: off white to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1689-1695	50	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, abundant off white altered feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, nil to very poor visual porosity, no oil fluorescence.	
	50	CLAYSTONE: as for 1686-1689m.	
1695-1701	40	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, no visual porosity, no oil fluorescence.	
	60	CLAYSTONE: off white to medium green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1701-1704	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, nil to very poor visual porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 1695-1701m.	
1704-1713	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and weak calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1701-1704m.	
1713-1716	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, very poor visual porosity, no oil fluorescence.	
1716-1725	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, very poor visual porosity, no oil fluorescence.	
1725-1734	90	SANDSTONE: as for 1716-1725m.	
	10	CLAYSTONE: as for 1701-1704m.	
1734-1740	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine to medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, poor visual porosity, no oil fluorescence.	

1740-1743	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, poor to fair visual porosity, no oil fluorescence.	
1743-1746	50	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, no visual porosity, no oil fluorescence.	
	50	CLAYSTONE: off white to medium green grey to medium grey to medium brown grey, slightly to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1746-1749	40	SANDSTONE: as for 1743-1746m.	
	60	CLAYSTONE: as for 1743-1746m.	
1749-1752	10	SANDSTONE: as for 1743-1746m.	
	90	CLAYSTONE: as for 1743-1746m.	
1752-1755	60	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, trace brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, nil to very poor visual porosity, no oil fluorescence.	
	40	CLAYSTONE: as for 1746-1749m.	
1755-1773	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, poor to fair visual porosity, no oil fluorescence.	
1773-1776	70	SANDSTONE: as for 1755-1773m.	
	30	CLAYSTONE: light to dark green grey to medium grey to medium brown grey, slightly to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1776-1785	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, no visual porosity, no oil fluorescence.	
	90	CLAYSTONE: light to dark green grey to medium grey to medium brown grey, very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1785-1788	40	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, very poor visual porosity, no oil fluorescence.	
	60	CLAYSTONE: as for 1776-1785m.	

Interval (m)	%	Description	PAGE: 4
1788-1794	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coaly detritus, rare pyrite, friable to moderately hard, poor visual porosity, no oil fluorescence.	
1794-1797	70	SANDSTONE: as for 1788-1794m.	
	30	CLAYSTONE: as for 1776-1785m.	
1797-1800	80	SANDSTONE: as for 1788-1794m.	
	20	CLAYSTONE: as for 1776-1785m.	
1800-1809	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1776-1785m.	
1809-1812	10	SANDSTONE: as for 1800-1809m.	
	90	CLAYSTONE: light to dark green grey to medium grey, occasionally medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1812-1818	20	SANDSTONE: as for 1800-1809m.	
	80	CLAYSTONE: as for 1809-1812m.	
1818-1821	40	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, no visual porosity, no oil fluorescence.	
	60	CLAYSTONE: light to dark grey to medium green grey, occasionally medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1821-1824	70	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, very poor visual porosity, no oil fluorescence.	
	30	CLAYSTONE: as for 1818-1821m.	
1824-1827	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1818-1821m.	

1827-1830	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor to fair visual porosity, no oil fluorescence.	
1830-1833	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor visual porosity, no oil fluorescence.	
	20	CLAYSTONE: light to dark grey to medium green grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	
1833-1845	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor to fair visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1830-1833m.	
1845-1848	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor visual porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 1830-1833m.	
1448-1851	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor to fair visual porosity, no oil fluorescence.	
1851-1857	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and strong calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, very poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 1830-1833m.	
1857-1863	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, common to abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, poor to fair visual porosity, no oil fluorescence.	
1863-1875	100	CLAYSTONE: light to dark green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.	

Interval (m)	%	Description	PAGE: 6
1875-1878	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, no visual porosity, no oil fluorescence.	
	90	CLAYSTONE: as for 1863-1875m.	
1878-1884	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, rare pyrite, moderately hard, very poor visual porosity, no oil fluorescence.	
	80	CLAYSTONE: as for 1863-1875m.	

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<b>Interval (m)</b>	<b>%</b>	<b>Description</b>
1884-1890	10	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, moderately hard, very poor visual porosity, no oil fluorescence.
	90	CLAYSTONE: light to dark green grey to medium grey to medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.
1890-1893	100	CLAYSTONE: as for 1884-1890m.
1893-1896	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly very fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, moderately hard, no visual porosity, no oil fluorescence.
	80	CLAYSTONE: as for 1884-1890m.
1896-1902	10	SANDSTONE: as for 1893-1896m.
	90	CLAYSTONE: as for 1884-1890m.
1902-1905	30	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, moderately hard, nil to very poor visual porosity, no oil fluorescence.
	70	CLAYSTONE: light to dark grey to medium green grey to occasionally medium brown grey, moderately to very silty, trace very fine black carbonaceous specks and coal detritus, trace very fine altered feldspar grains in part, trace micromica, firm, non fissile.
1905-1911	80	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, moderately hard, very poor visual porosity, no oil fluorescence.
	20	CLAYSTONE: as for 1902-1905m.
1911-1917	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, moderately hard, poor visual porosity, no oil fluorescence.
	30	CLAYSTONE: as for 1902-1905m.
1917-1923	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, subangular to subrounded, moderately sorted, moderate silica and calcareous cement, abundant white argillaceous matrix, abundant feldspars and grey green lithic grains, common brown to red lithics, trace quartz grains, trace coarse brown mica flakes, trace black coal detritus, moderately hard, poor visual porosity, no oil fluorescence.



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Interval (m)	%	Description
1998-2004	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, very poor visual porosity, no oil fluorescence.
	30	CLAYSTONE: light to dark grey to medium green grey to medium brown grey, moderately to very silty, trace to common black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.
2004-2010	50	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, nil to very poor visual porosity, no oil fluorescence.
	50	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, moderately to very silty, trace to common black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.
2010-2013	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, poor visual porosity, no oil fluorescence.
	10	CLAYSTONE: as for 2010-2013m.
2013-2016	70	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, very poor visual porosity, no oil fluorescence.
	30	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.
2016-2025	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, poor visual porosity, no oil fluorescence.
	10	CLAYSTONE: as for 2013-2016m.
2025-2028	80	SANDSTONE: as for 2016-2025m.
	20	CLAYSTONE: as for 2013-2016m.
2028-2037	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace to common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, poor visual porosity, no oil fluorescence.
2037-2040	80	SANDSTONE: as for 2028-2037m.

Interval (m)	%	Description	PAGE: 2
	20	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, dominantly medium grey, moderately silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.	
2040-2043	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly very fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, no visual porosity, no oil fluorescence.	
	80	CLAYSTONE: as for 2037-2040m.	
2043-2049	80	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, no visual porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 2037-2040m.	
2049-2055	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, nil to very poor visual porosity, no oil fluorescence.	
	20	CLAYSTONE: as for 2037-2040m.	
2055-2058	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, very poor to poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 2037-2040m.	
2058-2061	70	SANDSTONE: as for 2055-2058m.	
	30	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, moderately silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.	
2061-2064	50	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, very poor visual porosity, no oil fluorescence.	
	50	CLAYSTONE: as for 2058-2061m.	
2064-2070	70	SANDSTONE: as for 2061-2064m.	
	30	CLAYSTONE: as for 2058-2061m.	
2070-2076	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, very poor to poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 2058-2061m.	
2076-2079	80	SANDSTONE: as for 2070-2076m.	

	20	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, slightly to occasionally very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.
2079-2085	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, poor visual porosity, no oil fluorescence.
2085-2088	80	SANDSTONE: as for 2079-2085m.
	20	CLAYSTONE: as for 2076-2079m.
2088-2097	90	SANDSTONE: as for 2079-2085m.
	10	CLAYSTONE: as for 2076-2079m.
2097-2112	100	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, poor visual porosity, no oil fluorescence.
2112-2118	70	SANDSTONE: as for 2097-2112m.
	30	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.
2118-2124	80	SANDSTONE: as for 2097-2112m.
	20	CLAYSTONE: as for 2112-2118m.
2124-2130	60	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, minor crystalline vein calcite, moderately hard, very poor visual intergranular porosity, no oil fluorescence.
	40	CLAYSTONE: medium to dark grey to medium brown-grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, minor crystalline vein calcite, firm, slightly subfissile.
2130-2133	20	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, common crystalline vein calcite, moderately hard, no visual intergranular porosity, no oil fluorescence.
	80	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, common crystalline vein calcite, firm, slightly subfissile.
2133-2139	30	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, abundant crystalline vein calcite, moderately hard, no visual intergranular porosity, no oil fluorescence.
	70	CLAYSTONE: medium to dark grey to medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, abundant crystalline vein calcite, firm, slightly subfissile.



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<b>Interval (m)</b>	<b>%</b>	<b>Description</b>
2151-2154	50	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, no visual porosity, no oil fluorescence.
	50	CLAYSTONE: medium to dark grey to occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, slightly subfissile.
2154-2160	70	SANDSTONE: light to medium green grey, very fine to occasionally medium, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, nil to very poor visual porosity, no oil fluorescence.
	30	CLAYSTONE: as for 2151-2154m.
2160-2163	30	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, no visual porosity, no oil fluorescence.
	70	CLAYSTONE: medium to dark grey, occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, subfissile.
2163-2169	50	SANDSTONE: as for 2160-2163m.
	50	CLAYSTONE: as for 2160-2163m.
2169-2172	40	SANDSTONE: light to medium green grey, very fine to fine, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, common crystalline calcite vein infill, moderately hard, very poor visual intergranular porosity, no oil fluorescence.
	60	CLAYSTONE: medium to dark grey, occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, common crystalline calcite vein infill, firm, subfissile.
2172-2175	30	SANDSTONE: as for 2169-2172m.
	70	CLAYSTONE: as for 2169-2172m.
2175-2178	80	SANDSTONE: light to medium green grey, very fine to medium, dominantly fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, trace crystalline calcite vein infill, moderately hard, very poor to poor visual intergranular porosity, no oil fluorescence.
	20	CLAYSTONE: medium to dark grey, occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, trace crystalline calcite vein infill, firm, subfissile.
2178-2181	70	SANDSTONE: as for 2175-2178m.

Interval (m)	%	Description	PAGE: 2
	30	CLAYSTONE: as for 2175-2178m.	
2181-2196	90	SANDSTONE: light to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, trace quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: medium to dark grey, occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, subfissile.	
2196-2205	90	SANDSTONE: off white to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and calcareous cements, common to abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, poor visual porosity, no oil fluorescence.	
	10	CLAYSTONE: as for 2181-2196m.	
2205-2214	90	SANDSTONE: off white to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and calcareous cements, common to abundant white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, common crystalline calcite vein infill, moderately hard, very poor visual intergranular porosity, no oil fluorescence.	
	10	CLAYSTONE: medium to dark grey, occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, common crystalline calcite vein infill, trace micromica, firm, subfissile.	
2214-2220	100	SANDSTONE: off white to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, common crystalline calcite vein infill, moderately hard, very poor visual intergranular porosity, no oil fluorescence.	
2220-2226	30	SANDSTONE: off white to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, trace crystalline calcite vein infill, moderately hard, very poor visual intergranular porosity, no oil fluorescence.	
	70	CLAYSTONE: medium to dark grey, occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace crystalline calcite vein infill, trace micromica, firm, subfissile.	
2226-2229	50	SANDSTONE: off white to medium green grey, very fine to medium, dominantly medium, angular to subrounded, moderately sorted, moderate silica and calcareous cements, common white argillaceous matrix, abundant green grey lithics, common red brown lithics, common quartz grains, common black carbonaceous detritus, trace coarse brown mica flakes, moderately hard, very poor visual intergranular porosity, no oil fluorescence.	
	50	CLAYSTONE: medium to dark grey, occasionally medium brown grey to medium green grey, moderately to very silty, trace black coal detritus, common very fine altered feldspar grains in part, trace micromica, firm, subfissile.	
2229-2232	70	SANDSTONE: as for 2226-2229m.	
	30	CLAYSTONE: as for 2226-2229m.	

