CLIENT	ANALYSIS	PROJECT NO	DATE	ENCLOSURE NO
STATOIL	G.F.A.	1127B	JULY '83	1

WELL Nº 30/2-1

CORE : 3-11

INTERVAL :
3696·0m – 3700·80m
3701·0m – 3708·30m
3712·0m – 3716·40m
3717·0m – 3733·60m
3733·60m – 3734·65m
3735·80m – 3751·90m
3751·90m – 3758·4m*
3758·40m – 3776·35m*
3776·40m – 3794·40m*

*Corrected depths, log depth = box depth + 40cm

SCALE 1 : 100

PALEOSERVICES

LEGEND

LITHOLOGY

CLAY CLAYSTONE (MASSIVE/BLOCKY, SUBLAMINATED)
CLAY CLAYSTONE (SUBFISSILE/FISSILE)
SILTSTONE
SANDSTONE
MARL, CALCAREOUS SHALE
LIMESTONE
CALCITE CEMENTED SANDSTONE
SIDERITE CEMENTED SANDSTONES
CHERT
CLAY CLAYSTONE (LAMINATED)
NODULES
COAL
SHALE SAMPLES
CLAYSTONE FLAKES/PELLETS

FOSSILS

BELEMNITES
SPONGE SPICULES
OSTRACODS
FORAMS
BIVALVES
GASTROPODS
ECHINOIDS
CRINOIDS
BRACHIOPODS
CRINOID STEM FRAGMENTS
PLANT FOSSILS
FORAMINIFERA
ABUNDANT
COMMON
RARE
P PALYNOLOGY SAMPLE

STRUCTURES

CLEAN
CONTORTED
LAMINATED
CROSS-STRATIFICATION
THIN BANDS, SEMI-LAMINATED
CONTORTED
LOST INTERVAL, VERTICAL BOREHOLE
CLASTER/BEDDING (SILTY CARBONACEOUS)
CROSS-BEDDING
THIN SEDIMENTS
PELLETS
CLAY FLASERS
CLAYSTONE PELLETS/FLAKES/PELLETS
SMALL RIPPLE BEDDING (RIPPLE LENSES)
BIOTURBATED (SPORADICALLY BIOTURBATED)
VERTICAL INJECTION STRUCTURE/WEDGES (UNDIFFERENTIATED)
SILT SANDY LENSES
MINERAL CEMENTATION (CEMENTED)
CM – DIAMETER TUBULAR VALLEY/SPIRALLED BURROWS
MM – DIAMETER BURROWS
CLAYED SILTING
DYSEDIMENTARY FAULTING
FRACTURES WITH SLICKENSIDED SURFACES
FRACTURES
BIOTURBATION

BED BASE TYPES

TRANSITIONAL
SHARP
WAVY IRREGULAR
IRREGULAR/CONTORTED
BIOTURBATED
LOADED

DEPTH	GRAIN SIZE	LITHOLOGY BED BASE TYPE	SORTING	BIOTURBATION	STRUCTURES	FOSSILS	ACCESSORY MINERALS	PHYSICAL STRUCTURES	INDURATION	CEMENT TYPE PORE FILLING	BRIEF DESCRIPTION/NOTES	DEPTH SEDIMENTARY UNITS	SEDIMENTARY FACIES	TRENDS (CYCLES)	SUB ENVIRONMENT	ENVIRONMENT	BRENT EX	FORMATION	AGE
CORE 3											COAL, black, moderately indurated, rare fracturing.	3695.50							
											CLAYSTONE, dark grey to medium grey, silty, poorly indurated, thin SILTSTONE bed, rootlets and woody stem material.	2	H					
											Interbedded SANDSTONE, well indurated, well sorted, vfL–fU, and SILTSTONE, brown to dark grey, thin heterolithic bedded, rolletts medium, ripple cross laminated lenses, microfaults, ball and pillow structures, bioturbated	3697.48						
											CLAYSTONE, dark grey, subfissile, laminated.	3	F/G/H						
											SANDY SILTSTONE, reddish brown to dark grey, ripple laminated becoming sandier with depth.	3700.30							
CORE 4											SANDSTONE, white to greyish brown, well indurated, moderately sorted fU–mM, abundant white clay matrix, minor to no porosity.	3700.80							
											SANDSTONE, reddish brown, well indurated, miraceous, well to moderately sorted vfL–vfU to vfL–mL, ripple trough cross-laminated to horizontal, laminated, some visible porosity, minor calcite cement, clay rich laminae.	4	F					
											SANDSTONE, a/a, well sorted vfU–vfU, abundant wood and leaves, thin CLAYSTONE bed.	5	F					
											SILTY CLAYSTONE, reddish brown to grey, silt/sand lenses, rootlets.	3734.76	G/H						
											SANDSTONE, reddish brown well indurated, well sorted vfL–vfU poorly material, clay flakes up to 2 cm across.	3736.22	F						
											COAL, with interbedded SANDSTONE, poorly indurated, moderately sorted vfL–vfU.	3736.92	F/G						
											CLAYSTONE, dark grey, becoming medium grey with depth, abundant rootlets.	6	H						
												3740.0							
CORE 5											Interbedded CLAYSTONE, reddish brown becoming medium grey to dark grey with depth, sublimitic, rootlets common, woody stem material, SILTSTONE – reddish brown, moderately indurated, ripple laminated bioturbated	10	H					
											CONGLOMERATE, reddish brown, moderately indurated, sideritic nodules, clay flakes up to 2 cm across.	3712.88							
											Interbedded CLAYSTONE, grey to reddish brown, bioturbation sideritic nodules, locally silty – vfU laminae.	3714.27	/E						
											SANDSTONE, reddish brown, moderately indurated, well sorted vfL–vfU, horizontal laminated to ripple laminated.	17	F/G						
CORE 6												3716.4							
											SANDSTONE, brown, poorly indurated, micaceous, well sorted, fU–mM, planar cross stratified, some visible porosity, minor quartz overgrowths, thin 'tight' beds.	3717						
											Approximately trough cross – laminated.								
											Becoming trough cross – stratified.	17							
											CONGLOMERATE, reddish brown, moderately indurated, poorly sorted, base contact erosional.		E						
											SANDSTONE, a/a, transport direction, ripple trough cross – lamination.								
											CLAYSTONE, grey brown, well indurated, sideritic nodules.	3725.4							
											COAL, black, poorly indurated, interbedded with CLAYSTONE.	3727.54	F/G						
											SANDSTONE, reddish brown to grey, well indurated, moderately to poorly sorted, fM–vcU, ripple laminated to trough cross-stratified becoming CONGLOMERATE with depth clasts up to 7cm across, abundant wood fragments. Some visible porosity, rare quartz overgrowths, rare clay matrix.	19	E					
											SILTSTONE/SILTY CLAYSTONE, reddish brown, well indurated, sideritic nodules common, lamination contorted around nodules, base contact loaded.	3735.9						
											SANDSTONE, reddish brown to grey, well indurated, silty, micaceous, well sorted vfL–vfU, horizontal laminated to laminated to trough cross stratified, ripple laminae, minor soft sediment faulting.	17	/F/G					
											Interbedded CLAYSTONE/SILTY CLAYSTONE, grey to reddish brown, well to poorly indurated.	3752.6						
CORE 7											CLAYSTONE, medium grey, well indurated, siltstone lenses/laminae, ripple lenses, ball and pillow structures, rootlets, waves and stem fragments common.	18	G/H					
												3754.65							
CORE 8											SANDSTONE, reddish brown, moderately indurated, well sorted vfL–vfU.	10							
											COAL, black, poorly indurated.	3756.35							
											SANDSTONE, reddish brown, moderately indurated, well sorted, vfU–fL, rooted at top, white clay matrix, some visible porosity, minor quartz overgrowths.	20						
											Graded units, horizontal laminated to ripple laminated to trough cross stratified. Water escape injection structures	31						
											SILTY CLAYSTONE to CLAYSTONE, reddish brown to grey, well indurated, interlaminated sands/silts and clay, intense burrowing, erosional base contact.	3792.2	G					
											SILTY CLAYSTONE to CLAYSTONE, medium grey to dark grey, well indurated, coal fragments 1–3cm across, rootlets, locally SANDY SILTSTONE, reddish brown, well indurated.	2	H/I					
											Thin COAL seam.	3794.0							
											CLAYSTONE, a/a.	22							
											SILTSTONE, locally CLAYSTONE, reddish brown to grey, sideritic beds/nodules, well indurated, intense bioturbation, curved bedding, ball and pillow structures.	3798.2						
											SANDSTONE, locally SILTSTONE, reddish brown, well indurated, micaceous, well sorted, vfU–U, abundant woody stem fragments/twigs.	24	F					
											SILTY CLAYSTONE/CLAYSTONE, reddish brown to grey, laminated silt lenses sandstone ripple laminated, burrows common, ball and pillow structures.	3804.66						
											Interbedded SILTY SANDSTONE, reddish brown, well indurated, concretionbedded, moderately sorted vfL–vfU.	29	F/G					
											SANDSTONE, reddish brown, moderately indurated, micaceous, well to poorly sorted, fU to vfU–fL, vague lamination to planar cross stratified, graded beds.	3847.8						
											CLAYSTONE laminae, interbedded SILTSTONE, with lenses of sandstone, bioturbated.	27	C					
											SILTY CLAYSTONE, brown silt lenses/laminae in a dark grey claystone, well indurated, burrows common.	3850.14						
CORE 9											SILTY CLAYSTONE, medium grey to brown, silt lenses/laminae, rootlets.	28	G					
											COAL, black, poorly indurated.	3871.9							
											CLAYSTONE, becoming SILTY CLAYSTONE/SANDSTONE, medium grey to brown, moderately indurated, laminated, rootlets common.	30	H					
											SANDSTONE/SILTY SANDSTONE, reddish brown, moderately indurated, micaceous, moderately to poorly sorted, laminated, ripple laminated. Locally clay flakes.	3880.45						
											Interbedded with SILTY CLAYSTONE/CLAYSTONE, with silt/sand lenses, ball and pillow structures.	3882.28	H					
CORE											Intense bioturbation, horizontal burrows 1–2 cm long disrupting ripple trough cross-lamination.	32	F/G					
											Burrows – growth positions?	3900.80							
											SANDSTONE, reddish brown, well indurated, micaceous, well sorted to moderately sorted, vfU–vfL to vfU–mL, thin beds up to massive, thin clay seams/beds, some visible porosity.								
											Red claystone flakes, flame structures.								
												33							
											(Slumped bedding)								
											PEBBLY SANDSTONE, reddish brown, well indurated, poorly sorted, quartzose/sandstone clasts up to 7cm across in a vfL–vfU matrix. Abundant white clay matrix, minor calcite cement, rare quartz overgrowths, some visible porosity, massive to vague bedding.		D						
											SANDSTONE, a/a, fU–vfU, rare pebbles.								
											Thin COAL (2cm thick – drifted?) SANDSTONE, locally CONGLOMERATE, reddish brown, well indurated, micaceous, poorly sorted, planar cross stratified, erosional base contact, white clay matrix, visible porosity. Clasts of quartzite 1–2 cm diameter, some indurated.	3922	E					
CORE											SANDSTONE, reddish brown, moderately to well indurated, micaceous well sorted vfU–fL, white matrix clay, very minor visible porosity, planar bedded, low angle planar cross stratified, locally trough cross – stratified, red claystone lithic, clayey – rich laminae.		A						
											Siderite nodules.	34							
											Coal and plant fragments parallel to bedding up to 7cm across.		B						
											SANDY CLAYSTONE, reddish brown to dark grey, well indurated laminated, fine, and pillow structures, clay content decreasing with depth.	3986.31 3988.40							
											SANDSTONE, reddish brown, well indurated, well sorted vfL–vfU, clay-rich laminae, white matrix clay.								
											Siderite nodules and bed, becoming clay rich with depth.	35	B					
											SANDSTONE/SILTY CLAYSTONE, medium grey, locally brown, moderately indurated, micaceous, siderite nodules common, claystone and silty sandstone beds, minor cross lamination, horizontal laminated, heavily bioturbated, pyrite locally common.	3990.13							
												3994.40							

BOX DEPTH 3994.0M

BRENT

BAJOCIAN-EARLIEST BATHONIAN

MIDDLE JURASSIC

RANNOCH

BRENT

BAJOCIAN-EARLIEST BATHONIAN

MIDDLE JURASSIC