Well 26/4-2
COMPOSITE LOG 1:500

A/S NORSKE SHELL

REGIONAL MAP

LOCATION MAP

COUNTRY	:	Norway
LICENCE	:	PL266
BASIN	:	South Viking Graben
PROSPECT	:	Beluga
OPERATOR	:	Norske Shell
PRE-DRILL STATUS	:	Exploration
RIG NAME/TYPE	:	Deepsea Delta
STATUS	:	P&A Dry Well
OBJECTIVE		
PRIMARY	:	Hermod Sandstones

RIG DATA

RIG PICK UP DATE	:	11/04/2004
RIG ARRIVED	:	20/04/2004
RIG REACHED TD	:	21/04/2004
RIG RELEASED	:	27/04/2004
TOTAL DRILL DAYS	:	14 days

DF - RKB	:	29.0m
MSL (Seabed)	:	322.0m MSL
TD Driller	:	2322.0m MDBRT
TD (Logger)	:	2273.0m TVDSS
	:	2293.0m MDBRT
	:	2264.0m TVDSS

LOCATION DATA

SURFACE LATITUDE	:	59° 44' 22.544" N
SURFACE LONGITUDE	:	02° 26' 14.232" E
ZONE 31 UM 31 UTM	:	535 669.9 m E
	:	6 623 554.2 m N
TARGET LATITUDE	:	59° 44' 14.232" N
TARGET LONGITUDE	:	02° 26' 14.232" E
ZONE 31 UM 31 UTM	:	535 667.99 m E
	:	6 622 544.07 m N

PARTNERS

Norske Shell (OPERATOR)	:	20%
Norsk Hydro	:	30%
PWE Int.	:	20%
Petoro Resources	:	10%

CONTRACTORS

DRILLING	Odfjell
WELLSITE GEOLOGY	Cambrian
MUDLOGGING	BIS
WIRELINE	Schlumberger
DIRECTIONAL	BH
MWD / MD	Schlumberger
BITS	Bit Range
CASING	Odfjell Well Services
CEMENT	Halliburton

GEOLOGISTS

OPERATIONS
WELLSITE

M. Fay
S. Bulman

LOG COMPILER

K. Bulman
DATE
April 2004

WIRELINE LOGS

SYSTEM	GROUP	FORMATION	MEMBER	DEPTH (MDRKB)	DEPTH (TVDSS)	DATE	RUN No.	LOGGING SUITE	INTERVAL
Seabed				322.0m	293.0m	23/04/04	1A	HRLA-DSI-PEX-GR	2295 - 1200m ISR to seabed
Tertiary	Nordland	Utsira		982.0m	953.0m	23/04/04	1B	VSI	2220 - 340m
	Hordaland			1600.0m	1571.0m				
	Rogaland	Balder		1870.0m	1841.0m				
				1879.0m	1850.0m				
		Sele		2020.0m	1991.0m				
			Hermod Sst.	2044.0m	2015.0m				
		Lista		2054.0m	2025.0m				
		Vade		2164.0m	2135.0m				
		Tor		2170.0m	2141.0m				
TD Driller	Shetland			2322.0m	2293.0m				
TD (Logger)				2273.0m	2244.0m				
				2293.0m	2264.0m				

LITHOSTRATIGRAPHIC TOPS

SYSTEM	GROUP	FORMATION	MEMBER	DEPTH (MDRKB)	DEPTH (TVDSS)
Seabed				322.0m	293.0m
Tertiary	Nordland	Utsira		982.0m	953.0m
	Hordaland			1600.0m	1571.0m
	Rogaland	Balder		1870.0m	1841.0m
		Sele		2020.0m	1991.0m
			Hermod Sst.	2044.0m	2015.0m
		Lista		2054.0m	2025.0m
		Vade		2164.0m	2135.0m
TD Driller	Shetland	Tor		2170.0m	2141.0m
TD (Logger)				2293.0m	2264.0m

BIOSTRATIGRAPHIC TOPS

SERIES	STAGE	ZONE	DEPTH (MDRKB)	DEPTH (TVDSS)
TERTIARY	E. ISUNGOMIE		1070.0	1041.0
	L1. EOCENE		1620.0	1591.0
	M. EOCENE		1860.0	1831.0
	E. EOCENE		2000.0	1971.0
	L3. PALAEOCENE		2185.0	2157.0
CRETACEOUS	*L1. MAASTRICHTIAN		2252.0	2223.0

CASING DATA

BIT SIZE	INTERVAL	CASING	SHOE DEPTH	MUD SYSTEM
36"	160m - 226m	30"	224m	Seawater
12-1/4"	226m - 1210m	9-5/8"	1210m	Gypsol
8-1/2"	1210m - 2322m			Gypsol

CONVENTIONAL CORES

CORE	INTERVAL	RECOVERY
No cores cut		

DRILLSTEM TESTS

DST No	INTERVAL	FLOW	CHOKE	MPF
No DST's performed				

MISCELLANEOUS

MISCELLANEOUS

SIDEWALL CORES

RUN	SHOT	DEPTH	RECOVERY	RUN	SHOT	DEPTH	RECOVERY
No sidewall cores taken							

RFT DATA

RUN	DEPTH (MDRKB)	FORMATION PRESS set	FORMATION PRESS test	COMMENT
No RFT's taken				

LITHOLOGY SYMBOLS

CONGLOMERATE
BRECCIA
SANDSTONE
SILTSTONE
CLAYSTONE
SHALE
CALCAREOUS CLAYSTONE
MARL
CHALK
LIMESTONE
ARGILLACEOUS LIMESTONE
OOLITIC LIMESTONE
OOLITIC CALCAREOUS LIMESTONE
DOLOMITE
CALCAREOUS DOLOMITE
ANHYDRITE GYPSUM
COAL
HALITE
POLYHALITE
VOLCANICS
TUFF
INTRUSIVE IGNEOUS ROCK
EXTRUSIVE IGNEOUS
METAMORPHIC
BASEMENT

ACCESSORY SYMBOLS

CONGLOMERATIC
SANDY
SILTY
ARGILLACEOUS
SHALY
MARLY
CALCAREOUS
DOLOMITIC
LIMESTONE DOLOMITE IN ANHYDRITIC DIFFERENCES TUFFACEOUS
CALCITIC
CHERTY
GLAUCONITIC
FERRUGINOUS
PYRITIC
CARBONACEOUS
MICACEOUS
FELDSPATHIC
PHOSPHATIC
OOLITIC
MACROFOSSILS
MICROFOSSILS UNDIFF.
AMMONITES
BELEMNITES
CORALS
ECHINOIDS
GASTROPODS
BIOTURBATED
ROOTS
PLANT REMAINS

OPERATIONAL SYMBOLS

DRILL STEM TEST
OIL/GAS SHOWS
CASING SHOE
CEMENT PLUG
BRIDGE PLUG
CONVENTIONAL CORE
SWC RECOVERY
DIPMETER RESULTS
WELL DEVIATION

SIDEWALL CORES
RUN/SHOT/DEPTH
RUN/SHOT (NOT RECOVERED)

RFT/FMT
RUN/DEPTH/PRESSURE
PRESSURE TEST

CHRONO/LITHO STRATIGRAPHY

SYSTEM
SERIES
STAGE
GROUP
FORMATION
MEMBER

NORDLAND GROUP
UNDIFFERENTIATED
UTSIRA FORMATION
NORDLAND GROUP
UTSIRA FORMATION
NORDLAND GROUP

GAMMA RAY

HCAL(in)
GR(API)
GR ARC5(API)
ROP5(m/hr)

RESISTIVITY

RXO: RM17(ohmm)
RT: RM17(ohmm)
P28H(ohmm)
A28H(ohmm)
TGAS(%)

DENSITY/NEUTRON

RHOZ(g/cc)
NPHI(v/v)

SONIC

DTCO(usec/ft)
DTSM(usec/ft)

LITHOLOGY DESCRIPTION

Seabed at 160.0m MD 131.0m TVDSS

Returns to seabed are interpreted to be 100% water

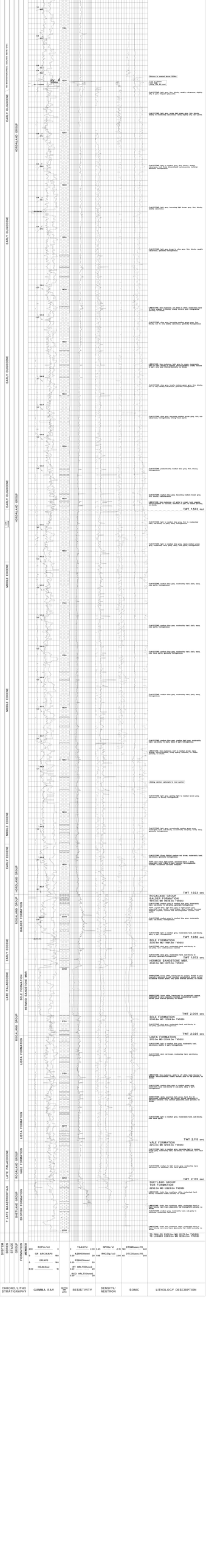
Lithology description from LWD logs and cuttings samples

TWT 0.714 sec

UTSIRA FORMATION
846.0m MD 816.0m TVDSS

TWT 0.913 sec

HORDALAND GROUP
900.0m MD 1871.0m TVDSS


CHRONO/LITHO STRATIGRAPHY
GAMMA RAY
DEPTH (MD) Metres
RESISTIVITY
DENSITY/ NEUTRON
SONIC
LITHOLOGY DESCRIPTION
SYSTEM
SERIES
STAGE
GROUP
FORMATION
EARLY OLIGOCENE
EARLY EOCENE
MIDDLE EOCENE
LATE PALAEOCENE
HORDALAND GROUP
ROGALAND GROUP
SHETLAND GROUP
LISTA FORMATION
SELE FORMATION
BALDER FORMATION
HERMOD SANDSTONE MBR
VALE FORMATION
SKADE FORMATION
ROPEm.Tot1
GR_ARCAEP5
GRAPE
HCAL.Stnd
TGASTU
A28WDiamd
A28WDiamd
RXOHDiamd
RXO_HRLTDiamd
RXO_HRLTDiamd
NPHISv1
RHOZ.Sg1cc1
DTSMDiamc
DTCODiamc
TWT 1923 sec
ROGALAND GROUP
BALDER FORMATION
2035.0m MD 1994.0m TVDSS
TWT 1958 sec
SELE FORMATION
2035.0m MD 1994.0m TVDSS
TWT 1979 sec
HERMOD SANDSTONE MBR
2040.0m MD 1999.0m TVDSS
TWT 2009 sec
SELE FORMATION
2070.0m MD 2029.0m TVDSS
TWT 2025 sec
LISTA FORMATION
2100.0m MD 2059.0m TVDSS
TWT 2115 sec
VALE FORMATION
2150.0m MD 2109.0m TVDSS
TWT 2155 sec
SHETLAND GROUP
SKADE FORMATION
2200.0m MD 2159.0m TVDSS
TD DRILLER 2200.0m MD 2159.0m TVDSS