

WDSS Report

Date: 21/10/96

PB/SKR

Page: 1 / 5

Well no:	Operator:
6607/05-02	ESSO

Well

Coordinates :	66° 41' 03.38" N 07° 21' 22.52" E	UTM coord. :	7397329.73 N 427403.49 E
License no :	126	Permit no :	694
Rig :	DYVI STENA	Rig type :	SEMI-SUB.
Contractor :	STENA DRILLING		
Bottom hole temp:	140 °C	Elev. KB :	25 M
Spud. date :	91.08.07	Water depth :	523 M
Compl. date :	91.11.17	Total depth :	4684 M
Spud. class :	WILDCAT	Form. at TD :	CRETACEOUS
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	NRGS - 84 - 479, SP. 1005		

Licensees

5.000000 ESSO EXPL. & PROD. NORWAY A/S
25.000000 MOBIL DEVELOPMENT NORWAY AS
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
20.000000 ENTERPRISE OIL NORWEGIAN AS

Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	584.0	36	585.0	
INTERM.	20	1223.0	26	1225.0	
INTERM.	13 3/8	2200.0	17 1/2	2202.0	
INTERM.	9 5/8	3690.0	12 1/4	3693.0	

Date: 21/10/96

Well no:	Operator:
6607/05-02	ESSO

Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	4161.0 - 4188.3	27.3	100.0

Mud

Depth	Mud weight	Visc.	Mud type
221.5	1.41	21.0	WATER BASED
586.0	1.04		WATER BASED
620.0	1.04		WATER BASED
1010.0	1.05		WATER BASED
1053.0	1.05		WATER BASED
1235.0	1.08	8.0	WATER BASED
1600.0	1.20	16.0	WATER BASED
1800.0	1.29	10.0	WATER BASED
1975.0	1.35	13.0	WATER BASED
2110.0	1.33	6.0	WATER BASED
2215.0	1.40	13.0	WATER BASED
2218.8	1.56	23.0	WATER BASED
2221.0	1.49	17.0	WATER BASED
2305.0	1.56	23.0	WATER BASED
2340.0	1.56	25.0	WATER BASED
2546.0	1.56	22.0	WATER BASED
2579.0	1.56	23.0	WATER BASED
2863.0	1.56	20.0	WATER BASED
3027.0	1.56	21.0	WATER BASED
3171.0	1.56	18.0	WATER BASED
3212.0	1.56	27.0	WATER BASED
3279.0	1.56	18.0	WATER BASED
3320.0	1.56	18.0	WATER BASED
3362.0	1.56	20.0	WATER BASED
3433.0	1.56	21.0	WATER BASED
3552.0	1.56	21.0	WATER BASED
3577.0	1.56		WATER BASED
3586.0	1.52	13.0	WATER BASED
3611.0	1.56	18.0	WATER BASED
3691.0	1.56	18.0	WATER BASED
3702.0	1.56	18.0	WATER BASED
3713.0	1.56	16.0	WATER BASED
3755.0	1.58	14.0	WATER BASED

WDSS Report

Date: 21/10/96

PB/SKR

Page: 3 / 5

Well no:	Operator:
6607/05-02	ESSO

3813.0	1.56	16.0	WATER BASED
3834.0	1.56	15.0	WATER BASED
3854.0	1.56	16.0	WATER BASED
3869.0	1.56	16.0	WATER BASED
3894.0	1.56	15.0	WATER BASED
3947.0	1.56	16.0	WATER BASED
3998.4	1.56	17.0	WATER BASED
4007.9	1.56	16.0	WATER BASED
4012.0	1.56	16.0	WATER BASED
4014.0	1.56	16.0	WATER BASED
4027.0	1.56	16.0	WATER BASED
4036.0	1.56	16.0	WATER BASED
4047.0	1.56	17.0	WATER BASED
4078.0	1.56	18.0	WATER BASED
4078.0	1.56	18.0	WATER BASED
4093.0	1.56	16.0	WATER BASED
4130.0	1.56	18.0	WATER BASED
4149.0	1.56	18.0	WATER BASED
4161.0	1.56	18.0	WATER BASED
4179.0	1.56	15.0	WATER BASED
4188.0	1.56	18.0	WATER BASED
4281.0	1.56	15.0	WATER BASED
4288.0	1.56	16.0	WATER BASED
4330.0	1.56	16.0	WATER BASED
4371.0	1.56	17.0	WATER BASED
4377.0	1.56	17.0	WATER BASED
4380.0	1.56	17.0	WATER BASED
4457.0	1.56	17.0	WATER BASED
4524.0	1.56	16.0	WATER BASED
4544.0	1.56	17.0	WATER BASED
4579.0	1.56	17.0	WATER BASED
4614.0	1.56	16.0	WATER BASED
4631.0	1.56	18.0	WATER BASED
4675.0	1.56	17.0	WATER BASED
4684.0	1.56	17.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
----------	---------------------	------------	--------------------	------	-----

Date: 21/10/96

Well no:		Operator:	
6607/05-02		ESSO	

Drill Stem Test (recovery)

Test no.	Oil Sm ³ /d	Gas Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1250 - 4683	450
CUTTINGS	1250 - 4683	450

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
ARRAY-SONIC/STC	3666.0 - 4669.0		
AS GR	4667.0 - 4667.0		
CBL VDL GR	2300.0 - 3681.0		
CST	1240.0 - 2195.0		
CST GR	2234.0 - 4665.0		
DATA PRESSURE LOG	1200.0 - 4686.0		
DIL MSFL SLS GR AMS	2200.0 - 3698.0		
DLL MSFL GR	3692.0 - 4680.0		
DLL MSFL SLS GR	1222.0 - 4680.0		
DLL MSFL SLS SP AMS	1222.0 - 2195.0		
FMS GR	3692.0 - 4687.0		

WDSS Report

Date: 21/10/96

PB/SKR

Page: 5 / 5

Well no:	Operator:
6607/05-02	ESSO

HP RFTB GR	3752.0 - 4261.0			
LDL CNL AMS GR	1222.0 - 2195.0			
LDL CNL GR	1222.0 - 4684.0			
LDL CNL GR AMS	2200.0 - 3674.0			
MUD	1200.0 - 4684.0			
MWD	548.0 - 4684.0			
SDT WAVEFORMS	4667.0 - 4667.0			
SYNTHETIC SEISMOGRAM				
TWO-WAY TRAVEL TIME	500.0 - 4686.0			
VELOCITY	1220.0 - 4650.0			
VSP				

Main operations for well: 6607/5-2

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	930	15,5	0,93
BOP/WELLHEAD EQ	6540	109,0	6,55
CASING	9270	154,5	9,28
CIRC/COND	3735	62,3	3,74
DRILL	51945	865,8	51,99
HOLE OPEN	2250	37,5	2,25
OTHER	555	9,3	0,56
PRESS DETECTION	15	0,3	0,02
REAM	765	12,8	0,77
SURVEY	75	1,3	0,08
TRIP	23835	397,3	23,86
Total	99915	1665,3	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	210	3,5	1,78
CIRC/COND	180	3,0	1,52
CORE	615	10,3	5,20
LOG	8100	135,0	68,53
OTHER	480	8,0	4,06
TRIP	2235	37,3	18,91
Total	11820	197,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	3330	55,5	25,31
MAINTAIN/REP	1995	33,3	15,17
OTHER	765	12,8	5,82
WAIT	6810	113,5	51,77
WELL CONTROL	255	4,3	1,94
Total	13155	219,3	100,00

Main operation: MOVING

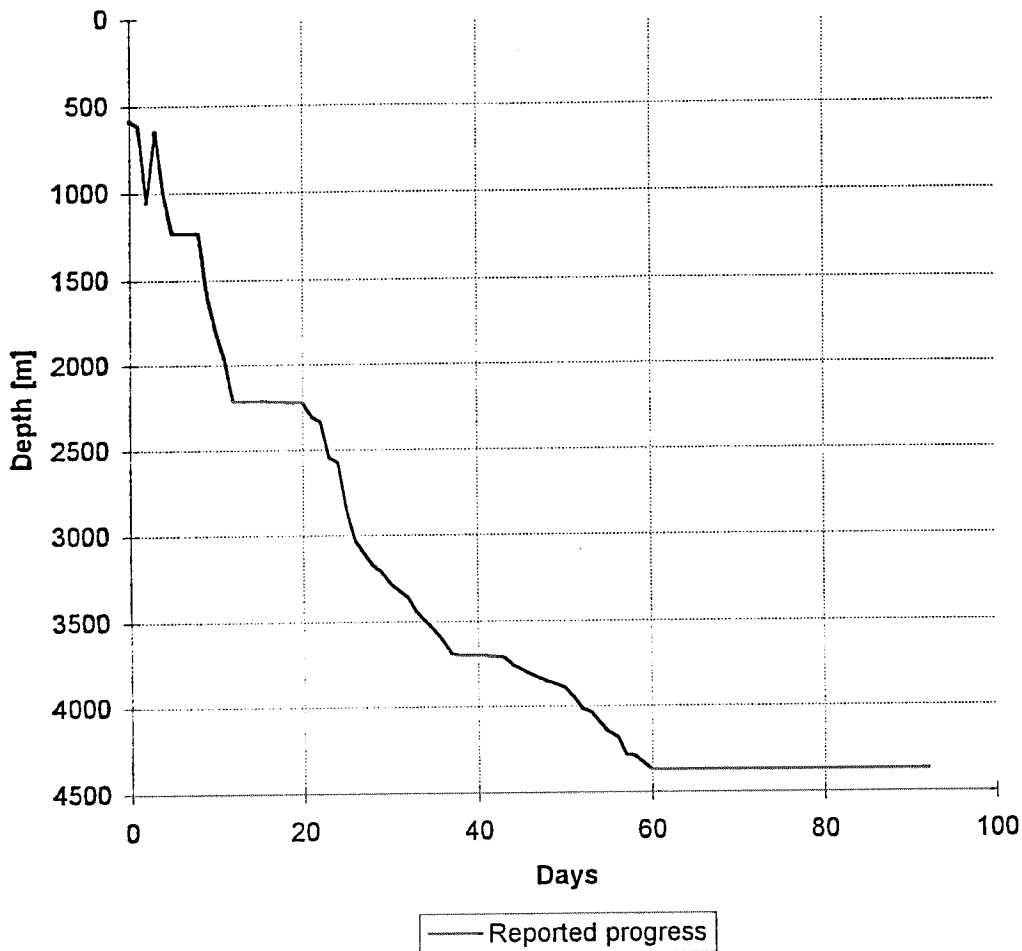
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	2460	41,0	68,91
POSITION	390	6,5	10,92
TRANSIT	720	12,0	20,17
Total	3570	59,5	100,00

Main operation: PLUG & ABANDON

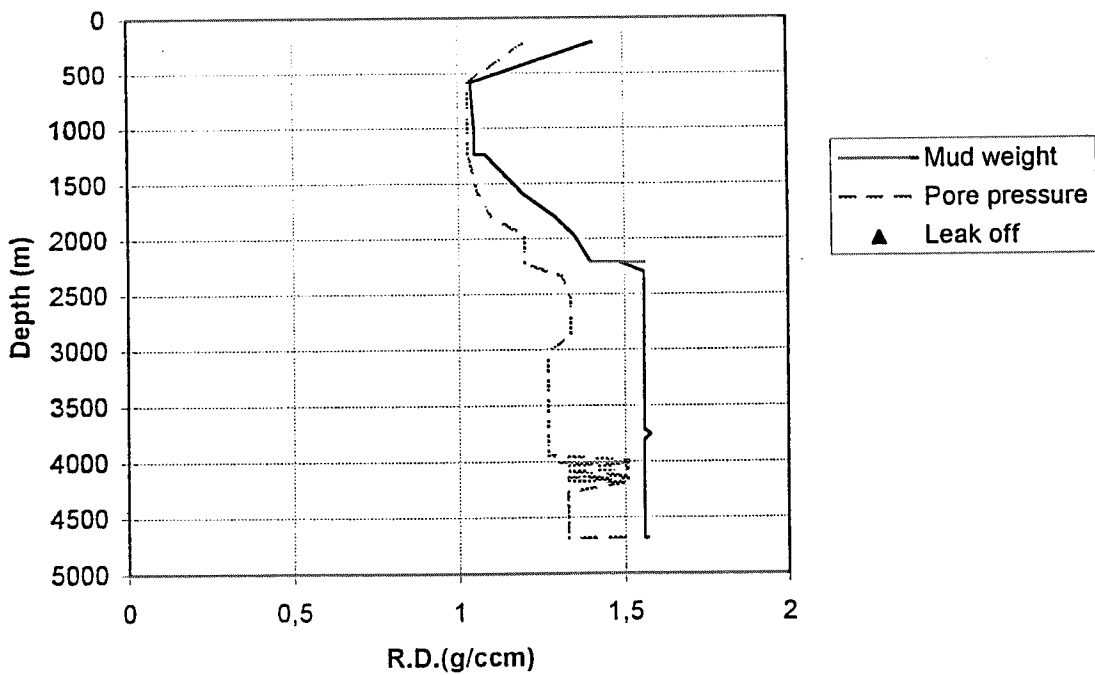
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	1185	19,8	8,40
CIRC/COND	1005	16,8	7,13
CUT	1440	24,0	10,21
EQUIP RECOVERY	4980	83,0	35,32
MECHANICAL PLUG	525	8,8	3,72
TRIP	4485	74,8	31,81
WAIT	480	8,0	3,40
Total	14100	235,0	100,00

Total time used: 2376,0 Hours

Depth vs time for well: 6607/5-2



Composite plot for well: 6607/5-2



Well History 6607/5-2

General:

Well 6607/5-2 was designed to drill the Amundsen II prospect on the NE-SW trending Bodo High. Block 6507/5 is located in the NW corner of the Nordland II, which is a geological province separated from the Halten and Donna Terrace by the deep Træn Basin to the east. The main objective of the well was to test the hydrocarbon potential of the Middle-Lower Jurassic shallow marine sandstones. The prognosed formation pressure was supposed to follow the general behaviour of the Haltenbanken Region, where a pressure regression might be experienced towards the Base Cretaceous at 4080 m RKB. The objective Middle Jurassic sandstones was expected to exhibit a potentially high level of overpressure. No shallow gas warnings were given.

Operations:

Wildcat well 6607/5-2 was spudded 7 August 1991 by the semi-submersible rig Dyvi Stena and completed 16 November 1991 at a total depth of 4684 m RKB within the Upper Cretaceous Kvitnos Formation. There were no lost time accidents. The 523 m of water depth made this well the deepest well ever drilled on the Norwegian continental shelf. The wellbore was maintained in excellent conditions over the entire well. Only 0.9 day of hole instability NPT was accumulated for this 4684 m RKB well. Throughout the well, immediate mud weight increase were made to counter excessive drag thus contributing to hole stability. During logging at TD, RFT results indicated a maximum pore pressure of 1.51 g/cm³. Following open hole logging of the 8 1/2" section on request the hole was plugged back and side-tracked at 3998 m RKB to permit a core cutting from 4161-4188.5 m RKB in the Campanian sand, prior to resuming plug and abandonment operations. The well was permanently plugged and abandoned as a dry well.

Testing:

No DST tests were performed

Geological Tops.

Well: 6607/5-2.

	Depth m (RKB).
Nordland Group	549.0
Naust Fm	549.0
Kai Fm	2003.0
Hordaland Group	2317.0
Brygge Fm	2317.0
Rogaland Group	2381.0
Tare Fm	2381.0
Shetland Group	2588.0
Springar Fm	2588.0
Nise Fm	4073.0
Kvitnos Fm	4422.0
T.D.	4684.0