

WDSS Report

Date: 13/09/96

PB/SKR

Page: 1 / 5

Well no:	Operator:
2/08-14	AMOCO

Well

<p>Coordinates : 56° 15' 48.93" N 03° 21' 23.11" E</p> <p>License no : 6</p> <p>Rig : WEST VANGUARD</p> <p>Contractor : A/S SMEDVIG DRILLING</p> <p>Bottom hole temp: 152 °C</p> <p>Spud. date : 90.08.14</p> <p>Compl. date : 91.01.22</p> <p>Spud. class : WILDCAT</p> <p>Compl. class : P&A. DRY HOLE</p> <p>Seisloca : ANO83- 14, SP. 270</p>	<p>UTM coord. : 6235612.57 N 522078.6 E</p> <p>Permit no : 647</p> <p>Rig type : SEMI-SUB.</p> <p>Elev. KB : 22 M</p> <p>Water depth : 67 M</p> <p>Total depth : 4392 M</p> <p>Form. at TD :</p> <p>Prod.form. :</p>
---	--

Licensees

28.333000 AMOCO NORWAY OIL COMPANY
 28.333000 ENTERPRISE OIL NORWEGIAN AS
 15.000000 NORWEGIAN OIL CONSORTIUM A/S & CO
 28.333000 AMERADA HESS NORGE 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	185.0	36	193.0	
INTERM.	20	945.0	26	952.0	1.74
INTERM.	13 3/8	2549.0	17 1/2	2560.0	1.90
LINER	11 3/4	3062.0	15	3068.0	2.05
INTERM.	9 5/8	3234.0	10 5/8	3248.0	2.07
LINER	7	4202.0	8 1/2	4274.0	2.23
OPEN HOLE	5	4392.0	5 7/8	4392.0	

WDSS Report

Date: 13/09/96

PB/SKR

Page: 2 / 5

Well no:	Operator:
2/08-14	AMOCO

Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
----------	---------------------------	---------------	---

Mud

Depth	Mud weight	Visc.	Mud type
190.0	1.09	8.0	WATER BASED
190.0	1.20	9.0	WATER BASED
330.0	1.42		WATER BASED
545.0	1.04	45.0	WATER BASED
687.0	1.06	40.0	WATER BASED
956.0	1.04	41.0	WATER BASED
959.0	1.20	10.0	WATER BASED
1157.0	1.22	13.0	WATER BASED
1288.0	1.70	16.0	WATER BASED
1410.0	1.49	21.0	WATER BASED
1639.0	1.69	24.0	WATER BASED
2340.0	1.70	18.0	WATER BASED
2469.0	1.94	10.0	WATER BASED
2469.0	2.08	20.0	WATER BASED
2490.0	1.70	11.0	WATER BASED
2560.0	1.73	11.0	WATER BASED
2560.0	1.70	12.0	WATER BASED
2560.0	1.73	19.0	WATER BASED
2759.0	1.68	14.0	WATER BASED
2898.0	1.70	16.0	WATER BASED
3044.0	1.73	19.0	WATER BASED
3070.0	1.75	16.0	WATER BASED
3126.0	1.78	16.0	WATER BASED
3170.0	2.08	21.0	WATER BASED
3176.0	1.88	26.0	WATER BASED
3176.0	1.82	18.0	WATER BASED
3176.0	1.86	21.0	WATER BASED
3181.0	1.92	18.0	WATER BASED
3263.0	1.94	21.0	WATER BASED
3374.0	1.93	24.0	WATER BASED
3403.0	1.96	21.0	WATER BASED
3468.0	1.93	21.0	WATER BASED
3721.0	1.96	24.0	WATER BASED
3784.0	2.02	21.0	WATER BASED

WDSS Report

Date: 13/09/96

PB/SKR

Page: 3 / 5

Well no:	Operator:
2/08-14	AMOCO

3810.0	1.96	26.0	WATER BASED
3851.0	2.02	26.0	WATER BASED
3875.0	1.98	24.0	WATER BASED
3882.0	2.02	26.0	WATER BASED
3905.0	1.98	25.0	WATER BASED
3911.0	2.02	25.0	WATER BASED
3987.0	1.98	24.0	WATER BASED
4026.0	2.02	25.0	WATER BASED
4084.0	1.98	27.0	WATER BASED
4134.0	2.02	24.0	WATER BASED
4166.0	1.98	26.0	WATER BASED
4180.0	2.18	21.0	WATER BASED
4205.0	2.02	19.0	WATER BASED
4249.0	2.09	20.0	WATER BASED
4258.0	1.98	24.0	WATER BASED
4270.0	2.01	22.0	WATER BASED
4274.0	2.04	21.0	WATER BASED
4274.0	2.02	24.0	WATER BASED
4274.0	2.05	24.0	WATER BASED
4314.0	2.01	20.0	WATER BASED
4326.0	2.12	22.0	WATER BASED
4339.0	2.17	22.0	WATER BASED
4392.0	2.16	20.0	WATER BASED
4392.0	2.18	20.0	WATER BASED

Drill Stem Test (intervals and pressures)

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

Drill Stem Test (recovery)

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
----------	-----------	-----------	-----------------	--------------------	-----------

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	960 - 4392	600

WDSS Report

Date: 13/09/96

PB/SKR

Page: 4 / 5

Well no:	Operator:
2/08-14	AMOCO

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500	
AC CBL VDL GR	3107.0 - 4207.0			
AC WAVE TRAIN	2555.0 - 2910.0			
ACBL VDL GR	3234.0 - 4500.0			
BHC ACL DIFL GR	4130.0 - 4397.0			
CBL VDL GR	450.0 - 2549.0			
CBL VDL GR	2414.0 - 3064.0			
CDM AD SHDT	2549.0 - 3255.0			
CDM AP/DIPLOG	3234.0 - 4289.0			
CORGUN	3102.0 - 4395.0			
CPI	2550.0 - 2900.0			
CPI	3250.0 - 4375.0			
DIFL ACL GR	2549.0 - 3075.0			
DIFL ACL GR	2977.0 - 3248.2			
DIFL BHC ACL GR	2977.0 - 3248.0			
DIFL LS BHC AC GR	3152.0 - 4208.0			
DIPLOG	2549.0 - 3255.0			
DIPLOG GR	4207.0 - 4397.0			
DRILLING DATA PRESS.	100.0 - 4250.0			
DRLG.DATA PRESSURE	93.0 - 4274.0			
FMT	2615.0 - 3238.0			
MUD	940.0 - 4392.0			

WDSS Report

Date: 13/09/96

PB/SKR

Page: 5 / 5

Well no:	Operator:
2/08-14	AMOCO

MWD	193.0 - 4202.0			
SYNTHETIC SEISMOGRAM	2487.0 - 4400.0			
TWO-WAY TRAVEL TIME	0000.0 - 4392.0			
VSP				
ZDL CN CAL GR	3152.0 - 4208.0			
ZDL CN GR	2549.0 - 3075.0			
ZDL CN GR	3060.0 - 3248.0			
ZDL CN GR X-Y-CALIP	4153.0 - 4396.0			

Main operations for well: 2/8-14

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1260	21,0	0,93
BOP/WELLHEAD EQ	6420	107,0	4,73
CASING	21270	354,5	15,67
CIRC/COND	22680	378,0	16,70
DRILL	45240	754,0	33,32
HOLE OPEN	1950	32,5	1,44
OTHER	1410	23,5	1,04
PRESS DETECTION	1110	18,5	0,82
REAM	4680	78,0	3,45
SURVEY	330	5,5	0,24
TRIP	25740	429,0	18,96
WAIT	3690	61,5	2,72
Total	135780	2263,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC/COND	390	6,5	3,62
LOG	8340	139,0	77,44
TRIP	2040	34,0	18,94
Total	10770	179,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	720	12,0	1,00
LOST CIRC	12180	203,0	16,94
MAINTAIN/REP	4380	73,0	6,09
OTHER	360	6,0	0,50
SIDETRACK	42930	715,5	59,72
WAIT	7050	117,5	9,81
WELL CONTROL	4260	71,0	5,93
Total	71880	1198,0	100,00

Main operation: MOVING

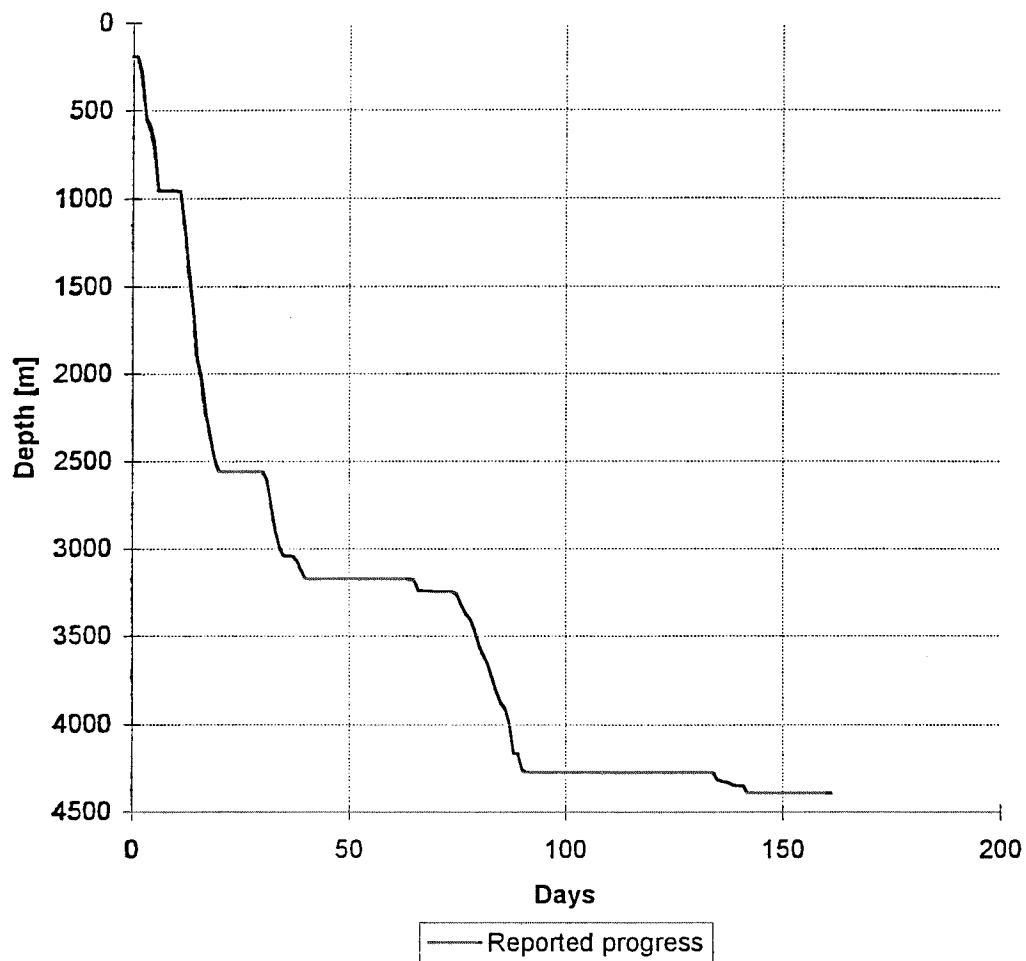
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	870	14,5	29,00
SKID	690	11,5	23,00
TRANSIT	1440	24,0	48,00
Total	3000	50,0	100,00

Main operation: PLUG & ABANDON

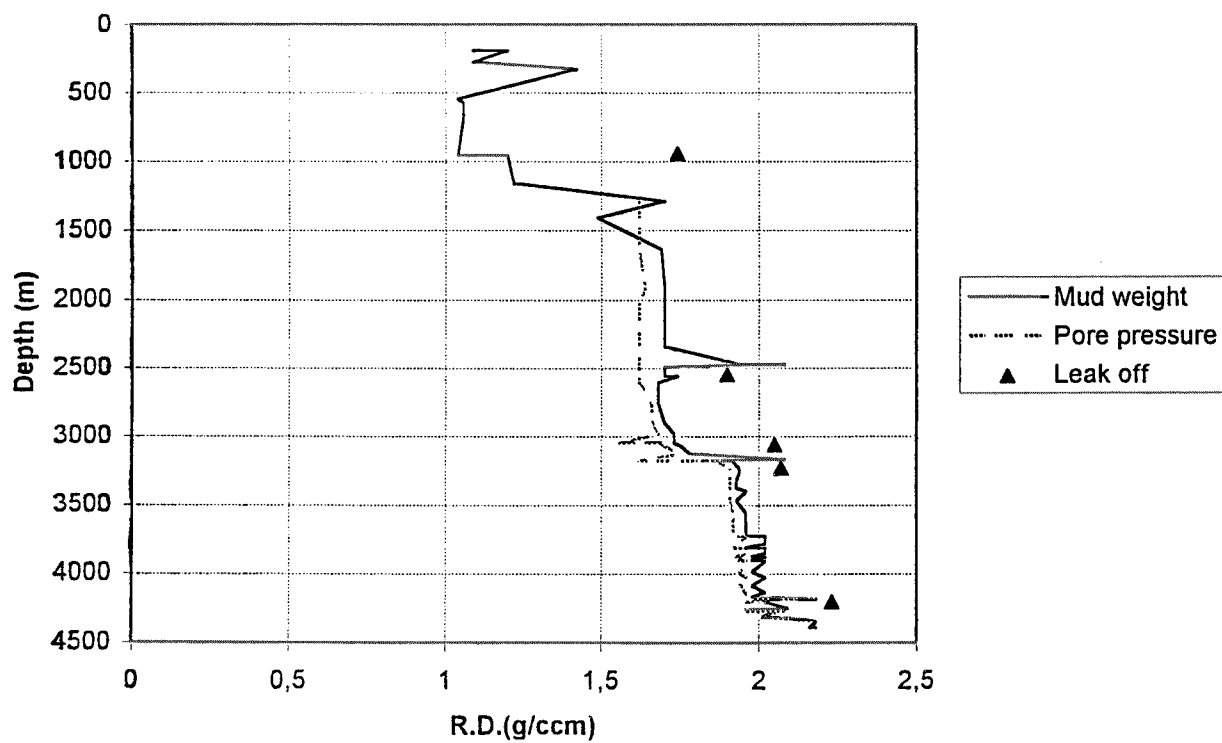
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	330	5,5	2,48
CIRC/COND	1170	19,5	8,80
CUT	330	5,5	2,48
EQUIP RECOVERY	930	15,5	7,00
OTHER	60	1,0	0,45
PERFORATE	570	9,5	4,29
SQUEEZE	120	2,0	0,90
TRIP	8070	134,5	60,72
WAIT	1710	28,5	12,87
Total	13290	221,5	100,00

Total time used: Hours

Depth vs time for well: 2/8-14



Composite plot for well: 2/8-14



Well History 2/8-14.

General:

Well 2/8-14 was designed to drill on a broad complex faulted and tilted elongated north-west south-east faulted anticlinal structure at the Vest Valhall Field, which is located within the Central Trough.

Well control in the area indicates that there is no significant concern about thermal cracking of reservoir oil at the objective reservoir depth. The prospect is east of the Lindesnes Fault, and the eastern margin is partially beneath the Cretaceous chalk in the Valhall Field. Structural closure is mapped at both the base Cretaceous level and at the top of the seismically mapped wedge. Upside potential exists in stratigraphic trapping associated with lateral facies changes of the submarine fan.

The primary drilling targets of the well was the Late Jurassic "wedge" sands and the Late Jurassic Volgian sands. The objectives of the well were to:

- 1) discover any possible hydrocarbon accumulations within the predicted Late Jurassic sands.
- 2) determine the reservoir quality of any Late Jurassic sands.
- 3) determine the reservoir quality of the Shetland Group chinks.
- 4) determine the Jurassic stratigraphy in this portion of the Central Trough.

Recent Jurassic discoveries made from the 2/7-20 and 21, 2/12-1 and 2/4 14 wells have proven that Jurassic sands in the Central Trough are attractive reservoirs.

Operations:

Wildcat well 2/8-14 was spudded on the southern lobe of the Vest Valhall structure by the semi-submersible rig West Vanguard 14 August 1990, and completed 22 January 1991 at a depth of 4392 m RKB in rocks of the Late Jurassic, Farsund Formation clays. The primary objective Late Jurassic "wedge" sandstones were not encountered in the well, neither was any significant Volgian sandstones penetrated. The well penetrated high pressure at 3176 m RKB in the Early Cretaceous that required plugging back and setting an 11 3/4" liner. When drilling out of the liner an unintentional sidetrack was drilled below approximately 3997 m RKB. In addition the well suffered from stuck pipe, equipment failures and bad weather conditions. High pore pressure, encountered at 4274 m RKB in the Late Jurassic, forced the well to end prematurely at 4392 m RKB instead of as prognosed at 5622 m RKB. No shallow gas was encountered in the well. No conventional cores were cut. 140 sidewall cores in four runs were attempted, and 48 were recovered. The well was plugged and abandoned as a dry hole with hydrocarbon shows.

Testing:

No DST tests were performed in this well.

Geological Tops.

Well:.2/8-14.

	Depth m (RKB).
Nordland Group	89.0
Hordaland Group	1522.0
Rogaland Group	2566.5
Balder Fm	2566.5
Sele Fm	2576.0
Lista Fm	2592.0
Shetland Group	2614.2
Tor Fm	2614.2
Hod Fm	2617.0
Blodoks Fm	2841.7
Hidra Fm	2847.0
Cromer Knoll Group	2874.0
Rodby Fm	2874.0
Sola Fm	2901.0
Ran Sst Unit	2935.0
Åsgard Fm	2984.0
Tyne Group	3188.5
Mandal Fm	3188.5
Farsund Fm	3256.5
T.D.	4392.0