WDSS Report

Date: 18/09/96

PB/SKR

Page: 1/3

	Operator:
25/02-14	ELF

Well

Coordinates:

59° 45' 53.52" N

UTM coord.:

6625451.08 N

476953.03 E

License no:

02° 35' 23.04" E 26

Permit no:

666

Rig:

WEST VANGUARD

Rig type:

SEMI-SUB.

Contractor:

A/S SMEDVIG DRILLING

Elev. KB:

22 M

Bottom hole temp:

112 °C 91.01.25

Water depth:

117 M

Spud. date: Compl. date: 91.03.30

Total depth:

3623 M

Spud. class:

APPRAISAL

Form. at TD:

E.JURASSIC

Compl. class:

P&A. DRY HOLE

Prod.form.:

Seisloca:

EL880 RAD 343 KOLONNE 1100

Licensees

32.870000 NORSK HYDRO PRODUKSJON AS

5.000000 DEN NORSKE STATS OLJESELSKAP A.S

20.710000 TOTAL NORGE AS

41.420000 ELF PETROLEUM NORGE AS

Casing and Leak-off Tests

Туре	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	202.0	36	205.0	
INTERM.	13 3/8	1199.0	17 1/2	1201.0	1.83
INTERM	9 5/8	3055.0	12 1/4	3057.0	1.71

Conventional Cores

1	Core no.	Intervals cored	Recovery	%
		meters	m	The second secon
-	1	NO CORE		

WDSS Report

Date: 18/09/96

PB/SKR

Page: 2 / 3

Well no:	Operator:
25/02-14	ELF

2 NO CORE			
3	3130.0 - 3149.0	19.0	100.0
4	3149.0 - 3168.0	19.0	100.0

Mud

Depth	Mud weight	Visc.	Mud type
368.0	1.03		WATER BASED
1213.0	1.09	10.0	WATER BASED
2848.0	1.35	31.0	WATER BASED
2874.0	1.35	32.0	WATER BASED
2934.0	1.35	27.0	WATER BASED
3072.0	1.35	22.0	WATER BASED
3496.0	1.25	22.0	WATER BASED
3623.0	1.26	25.0	WATER BASED

Drill Stem Test (intervals and pressures)

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

Drill Stem Test (recovery)

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

Drill Bit Cuttings and Wet Samples

Sample type	Interval	Number of
	below KB	samples
WET SAMPLES	210 - 3623	420

Shallow Gas

ı	T., 4	D	
1	Interval	Remarks	
- 9			

WDSS Report

Date: 18/09/96

PB/SKR

Page: 3 / 3

I Mail not	Operator:
25/02-14	ELF

below KB	
1	

Available Logs

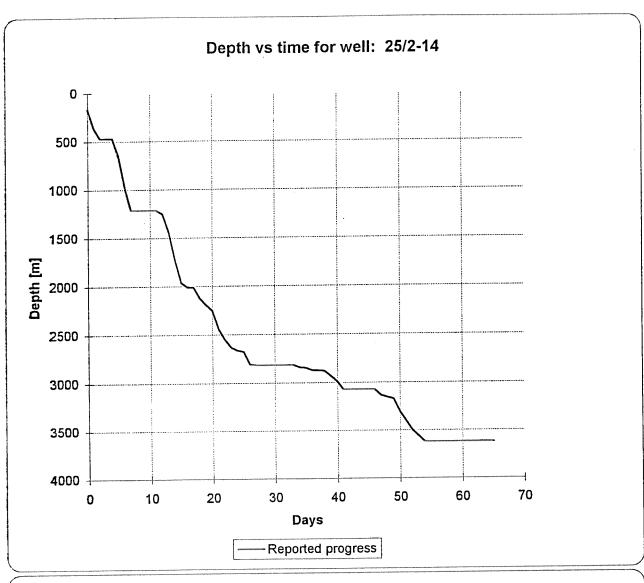
Log type	Intervals logged	1/200	1/500	
ACBL VDL GR	1900.0 - 3055.0			
CDL GR	1198.0 - 3075.0			

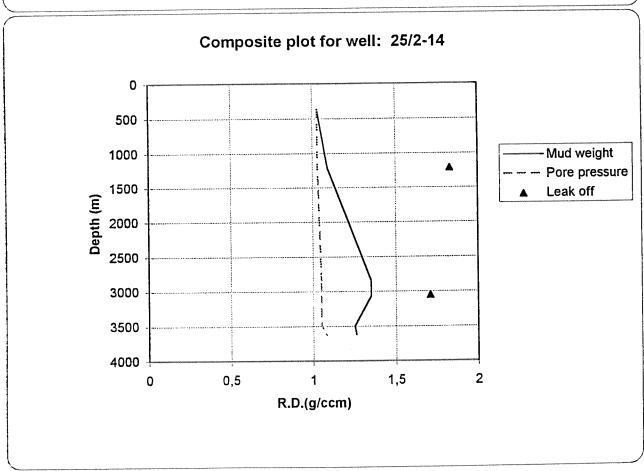
CDM AP	1198.0 - 3624.0			
CDM AP/COMPUTED DIP	1198.0 - 3624.0			
CPI	3130.0 - 3325.0			
DIFL BHC AC GR	1198.0 - 3624.0			
DRILLING DATA PRESS.	200.0 - 3623.0			
FMT	3137.0 - 3574.0			
MUD	200.0 - 3623.0			
MWD	141.0 - 3623.0			
SHDT/DIPLOG	3624.0 - 3655.0			
SPECTRALOG	3025.0 - 3624.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME	100.0 - 3623.0	AAGAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAA		
VELOCITY	1270.0 - 3630.0			
ZDL CN CAL GR	3025.0 - 3623.0			
ZERO OFFSET VSP				

Main operations for well: 25/2-14

Main operation: DRILLING

Main operation: DRIL	LING					
Sub operation:	Minutes:	Hours:	% of total:			
BOP ACTIVITIES	2250	37,5	4,29			
BOP/WELLHEAD EQ	1500	25,0	2,86			
CASING	9570	159,5	18,26			
CIRC/COND	2460	41,0	4,69			
DRILL	23910	398,5	45,62			
HOLE OPEN	1470	24,5	2,80			
OTHER	240	4,0	0,46			
REAM	2880	48,0	5,50			
SURVEY	30	0,5	0,06			
TRIP	8010	133,5	15,28			
WAIT	90	1,5	0,17			
Total	52410	873,5	100,00			
Main operation: FORMATION EVAL						
Sub operation:	Minutes:	Hours:	% of total:			
CIRC SAMPLES	90	1,5	0,67			
CIRC/COND	1740	29,0	13,03			
CORE	1770	29,5	13,26			
LOG	4740	79,0	35,51			
OTHER	120	2,0	0,90			
TRIP	4890	81,5	36,63			
Total	13350	222,5	100,00			
Main operation: INTE	RRUPTION					
Sub operation:	Minutes:	Hours:	% of total:			
FISH	6780	113,0	49,24			
MAINTAIN/REP	5580	93,0	40,52			
OTHER	60	1,0	0,44			
WAIT	1350	22,5	9,80			
Total	13770	229,5	100,00			
Main operation: MOVING						
Sub operation:	Minutes:	Hours:	% of total:			
ANCHOR	3540	59,0	100,00			
Total	3540	59,0	100,00			
Main operation: PLUG & ABANDON						
Sub operation:	Minutes:	Hours:	% of total:			
CEMENT PLUG	1080	18,0	9,70			
CIRC/COND	870	14,5	7,82			
CUT	390	6,5	3,50			
EQUIP RECOVERY	1230	20,5	11,05			
MECHANICAL PLUG	360	6,0	3,23			
PERFORATE	690	11,5	6,20			
SQUEEZE	90	1,5	0,81			
TRIP	6030	100,5	54,18			
WAIT	390	6,5	3,50			
Total	11130	185,5	100,00			
Total time used: 1570,0 Hours						





Well History 25/2-14

General:

Well 25/2-14 was an appraisal well dedicated to the C prospect, defined at Jurassic level, located north of the Froy Field in the central Viking Graben. The northern part of the Froy Field appears as a triangle delineated by 3 faults slightly tilted to the WNW, where the eastern limit is the main fault bordering the Froy structure with a 300 m downthrow, and the northern border is another major fault. It is the western fault trending NNW-SSE, that separates the northern C compartment from the rest of the field, and well 25/2-14 is located in a down flank position. This location was chosen in order to be far enough from the eastern border fault, to leave a limited updip if any, and to get a full Brent sequence with the assumed oil water contact within the upper part of the section. The objectives of the well were:

- 1) to explore the Middle Jurassic sandstones which are the main reservoir in the Froy Field
- 2) to explore the Lower Jurassic Statfjord sandstones as a secondary target, depending on the results at Brent level.

Boulders had been observed at 38 and 40 below seabed within 70 metres off location, and a strong reflector at 300 m indicated shallow gas. A hydrostatic regime was expected in all the reservoir except for Statfjord which could be slightly overpressured.

Operations:

Appraisal well 25/2-14 was spudded 25 January 1991 by the semi-submersible rig West Vanguard and completed 31 March 1991 at a total depth of 3623 m RKB within the Statfjord Formation having encountered waterbearing Brent and Statfjord sandstones. Minor problems were encountered while drilling 8 1/2" pilot hole down to 473 m RKB. A total of 4 conventional cores were cut. 50 sidewall cores were attempted and 48 were recovered. Top Brent was found at the forecasted depth at 3135 m RKB. Top Statfjord was found at 3520.5 m RKB (expected depth was 3537 m RKB). No residual oil was present neither when visually inspecting cores nor from the preliminary geochemical analysis. The well was permanently plugged and abandoned as a dry well.

Testing:

No DST tests were performed

Geological Tops.

Well: 25/2-14.

	Depth m (RKB).
Nordland Group	142.0
Utsira Fm	420.0
Hordaland Group	1074.0
Frigg Fm	2113.0
Rogaland Group	2164.0
Balder Fm	2164.0
Sele Fm	2211.0
Lista Fm	2331.0
Vâle Fm	2482.0
Shetland Group	2656.0
Rodby Fm	2820.0
Sola Fm	2850.0
Ásgaard Fm	2920.0
Viking Group	3029.0
Draupne Fm	3029.0
Heather Fm	3081.0
Dront Croun	3135.0
Brent Group	3133.0
Dunlin Group	3322.0
Drake Fm	3322.0
Johansen Fm	3342.0
Amundsen Fm	3422.0
Statfjord Fm	3520.5
T.D.	3623.0
	J 0.20.0