

Well no :	25/5-3	Operator :	ELF
Coordinates :	59° 35' 08.01" N 02° 37' 46.94" E	UTM coord. :	660546905 N 47908708 E
Licence no :	102	Permit no :	627
Rig :	WEST VANGUARD	Rig type :	SEMI-SUB.
Contractor :	A/S SMEDVIG DRILLING CO.	Elev. KB :	22 M
Bottom hole temp:	85 °C	Water depth :	118 M
Spud. date :	90.01.27	Total depth :	2878 M
Compl. date :	90.03.14	Form. at TD	
Spud. class :	WILDCAT	Prod.form. :	
Compl. class :	P&A. GAS/COND DISC.		
Seisloca :	EL 8902 - 111 SP 830		

LICENSEES

20,000000	A/S NORSKE SHELL
50,000000	DEN NORSKE STATS OLJESELSKAP A.S
30,000000	ELF PETROLEUM NORGE A/S.

CONVENTIONAL CORES

Core no.	Intervals cored		Recovery	
	meters		M	%
1	2386,0	- 2404,0	17,8	98,9
2	2615,0	- 2628,5	13,5	100,0

MUD

Depth	Mud weight	Visc.	Mud type
255,000	1,07		WATER BASED
1303,000	1,25	22,0	WATER BASED
2349,000	1,30	27,0	WATER BASED
2615,000	1,12	24,0	WATER BASED
2900,000	1,15	27,0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no.	Interval meter		Choke size	Pressure	BTHP	FFP
				(PSI) WHP		
1,0	2405,000	- 2336,000	15,6	2259	3408	

Test temperature: N/A

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
1,0	115	585000	,700	,250	5100

DRILL BIT CUTTINGS AND WET SAMPLES

Sample type	Interval below KB	Number of samples
WET SAMPLES	1040 - 1900	180

SHALLOW GAS

Interval below KB	Remarks
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AVAILABLE LOGS

Log type	Intervals	1/200	1/500	Div.
CBL VDL GR CCL	148,0 - 1176,3	X		
CBL VDL GR CCL	1583,3 - 2345,0	X		
CBL VDL GR CCL	2226,0 - 2468,5	X		
CDM AP / SHDT	1192,0 - 2308,0	X	X	
CDM AP / SHDT	2357,0 - 2790,0	X	X	
SHDT AMS	2386,0 - 2404,0	X		
DIL DDBHC GR AMS	1160,0 - 2325,8	X	X	
DIL DDBHC GR SP	2230,0 - 2884,0	X	X	
DLL MSFL GR SP	2351,3 - 2481, 3	X	X	
FMS GR AMS	2351,3 - 2790,0	X		
LDL CNL NGL AMS	2351,3 - 2882,8	X	X	
LDL GR AMS	1160,0 - 2316,2	X	X	
MUD	200,0 - 2900,0		X	
MWD	200,0 - 2900,0		X	
NGL	2351,3 - 2873,5		X	
RFTB GR HP	2386,9 - 2638,8		X	
VELOCITY	1150,000 - 2900,000		X	1:1000
SYNTHETIC SEISMOGRAM	10 cm/s , 20 cm/s			4
TWO WAY TIME LOG	10 cm/s , 20 cm/s			2
VSP	10 cm/s , 20 cm/s			10

Main operations for well: 25/5-3**Main operation: COMPLETION**

Sub operation:	Minutes:	Hours:	% of total:
COMPL STRING	300	5,0	100,00
Total	300	5,0	100,00

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1020	17,0	3,44
BOP/WELLHEAD EQ	1740	29,0	5,87
CASING	10320	172,0	34,82
CIRC/COND	720	12,0	2,43
DRILL	11100	185,0	37,45
HOLE OPEN	510	8,5	1,72
SURVEY	1020	17,0	3,44
TRIP	3210	53,5	10,83
Total	29640	494,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	90	1,5	0,48
CIRC/COND	1110	18,5	5,86
CORE	420	7,0	2,22
DST	8430	140,5	44,53
LOG	4440	74,0	23,45
TRIP	4440	74,0	23,45
Total	18930	315,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	180	3,0	1,08
MAINTAIN/REP	810	13,5	4,88
WAIT	15600	260,0	94,03
Total	16590	276,5	100,00

Main operation: MOVING

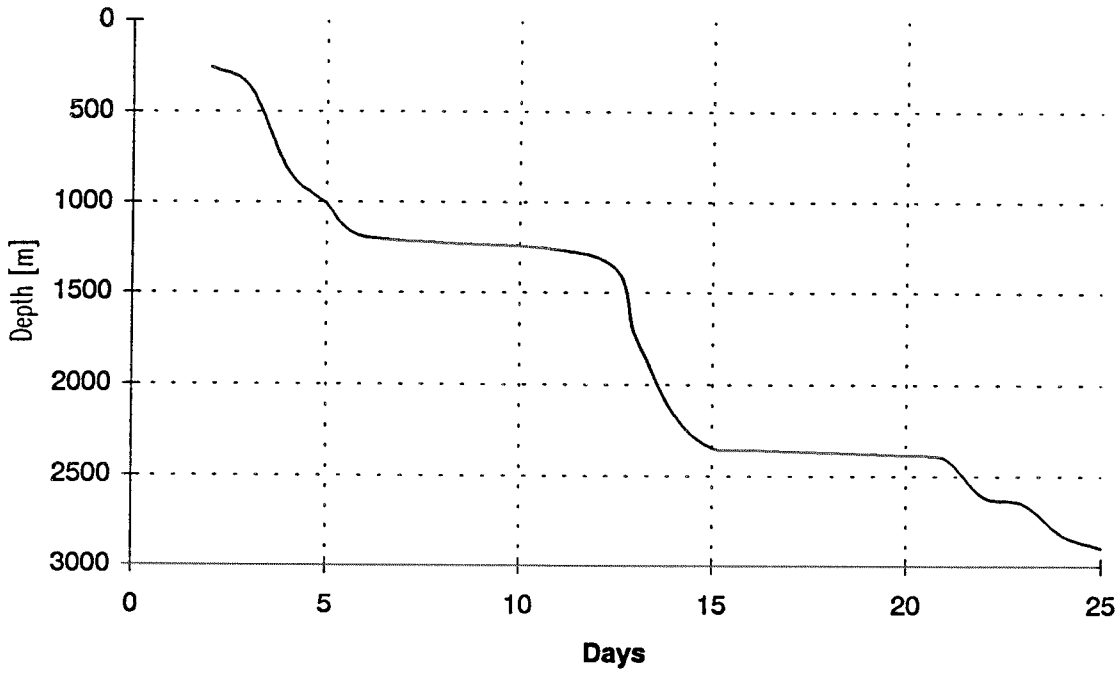
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	3360	56,0	75,68
POSITION	210	3,5	4,73
TRANSIT	870	14,5	19,59
Total	4440	74,0	100,00

Main operation: PLUG & ABANDON

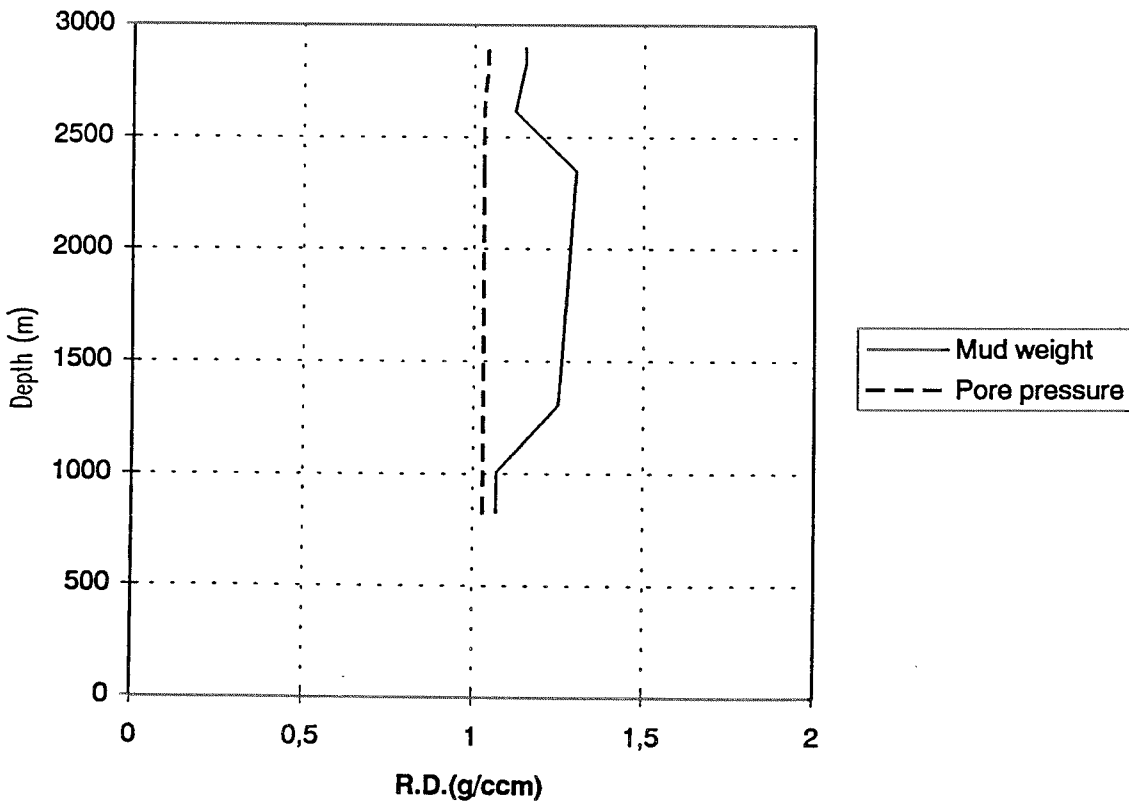
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	720	12,0	4,53
CIRC/COND	2130	35,5	13,40
CUT	1560	26,0	9,81
EQUIP RECOVERY	2790	46,5	17,55
MECHANICAL PLUG	390	6,5	2,45
PERFORATE	750	12,5	4,72
SQUEEZE	60	1,0	0,38
TRIP	6600	110,0	41,51
WAIT	900	15,0	5,66
Total	15900	265,0	100,00

Total time used: 1430,0 Hours

Depth vs time for well: 25/5-3



Composite plot for well: 25/5-3



Well History 25/5-3.

General:

Well 25/5-3 was dedicated to the "A" prospect, defined at Jurassic level, located in the eastern part of block 25/5. The prospect appears as a horst along the western edge of the Utsira High, close to the border with block 25/6, and about 15 km ESE from the Frøy discovery in 1987. Well 25/5-2 was an appraisal well of that discovery in 1989. 25/5-1 was the first commitment well drilled in license 102, and well 25/5-3 is the second one. The objectives of well 25/5-3 were:

- evaluate the hydrocarbon potential of the Early Paleocene Maureen Formation sandstones that were found water bearing in wells 25/5-1 and 25/6-1 but that present a closure at that well location.

- explore the Middle Jurassic Brent sandstones that constitute the Frøy Field reservoir that also was found oilbearing in well 25/6-1. This was the main target.

- explore the Early Jurassic Statfjord sandstones that are oil-bearing in well 25/2-5.

For all these objectives, the expected fluid is oil with some associated gas. Due to high amplitude anomalies and amplitude phase reversal, there were shallow gas warnings at the following depths: 204 m, 218 m and 244 m MSL. TD was prognosed within the Triassic series. No obstructions were observed in the vicinity of the planned well location.

Operations:

Wildcat well 25/5-3 was spudded by the semi-submersible rig West Vanguard 27 January 1990, and completed 14 March 1990 at a depth of 2878 m RKB in rocks of Triassic age, the Hegre Formation. No significant problems occurred during the operations. No shallow gas was encountered in this well. Core no 1 was cut in the interval 2386 to 2404 m RKB in the "good sand zone" of the Brent Group, and core no 2 from 2615 to 2628 m RKB in the Statfjord Formation. A total of 90 sidewall cores were attempted and 76 were recovered. The Statfjord reservoir was water bearing, while the Brent reservoir was gas bearing at the top. The Maureen formation sand displayed good reservoir qualities, but was waterbearing (no shows at all). The well was permanently plugged and abandoned as a gas/condensate discovery.

Testing:

One DST test was performed in the upper part of the Brent reservoir in the interval between 2386 to 2405 m RKB yielding a maximum flow 585.000 m³ of gas + 115 Sm³ condensates(180-200 g/m³) with a 15.6 mm choke.

Geological Tops.

Well:25/5-3

	Depth m (RKB).
Nordland Group	140,0
Utsira Fm	495,0
Hordaland Group	1012,0
Frigg Fm Eqv	1928,0
Rogaland Group	1998,0
Balder Fm	1998,0
Sele F m	2044,0
Lista Fm	2095,0
Våle Fm / Maureen Fm	2162,0,0
Shetland Group	2310,0
Viking Group	2347,0
Heather Fm	2347,0
Brent Group	2384,0
Dunlin Group	2453,0
Statfjord Fm	2613,0
Triassic Group	2752,0
Hegre.Fm	2752,0
T.D.	2900,0