

Well no :	25/2-12 A	Operator :	ELF
Coordinates :	59° 57' 48.34" N 02° 23' 40.78" E	UTM coord. :	664764817 N 46619696 E
Licence no :	26	Permit no :	596
Rig :	WEST VANGUARD	Rig type :	SEMI-SUB.
Contractor :	A/S SMEDVIG DRILLING CO.	Elev. KB :	22 M
Bottom hole temp:	120 °C	Water depth :	115 M
Spud. date :	88.11.12	Total depth :	3887 M
Compl. date :	89.04.06	Form. at TD	M.JURASSIC
Spud. class :	APPRAISAL	Prod.form. :	M.JURASSIC
Compl. class :	P&A. GAS/COND.		
Seisloca :	EL 8706 - 117 SP 406		

LICENSEES

32,870000	NORSK HYDRO PRODUKSJON A.S
5,000000	DEN NORSKE STATS OLJESELSKAP A.S
20,710000	TOTAL NORGE A.S
41,420000	ELF PETROLEUM NORGE A/S.

CASING AND LEAK-OFF TESTS

Type	Casing diam.	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	197,0	36	199,0	
SURF.COND.	20	890,0	26	907,0	1,32
INTERM.	13 3/8	2848,0	17 1/2	2867,0	1,88
LINER	7 A	3603,0	8 1/2	3714,0	2,10
	9 5/8	3700,0	12 1/4	3720,0	2,10
	9 5/8 A	3099,0	12 1/4	3099,0	1,98
LINER	4 1/2 A	3863,0	5 9/8	3887,0	

MUD

Depth	Mud weight	Visc.	Mud type
3174,000	1,81	48,0	WATER BASED
3290,000	1,84	46,0	WATER BASED
3442,000	1,85	48,0	WATER BASED
3478,000	1,90	50,0	WATER BASED
3506,000	1,85	46,0	WATER BASED
3592,000	1,90	56,0	WATER BASED
3714,000	1,91	53,0	WATER BASED
3865,000	1,95	47,0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no.	Interval meter		Choke size	Pressure (PSI) WHP	BTHP	FFP
1,0	3795,0	-	3805,0	5,6		

Test temperature: N/A

RECOVERY

Test no.	Condensate Sm ³ /d	Gas Sm ³ /d	Condensate grav. g/cm ³	Gas grav. rel. air	GCR m ³ /m ³
1,0	102	200000	0,810	0,700	1960

DRILL BIT CUTTINGS AND WET SAMPLES

Sample type	Interval below KB	Number of samples
WET SAMPLES	3105 - 3864	270

SHALLOW GAS

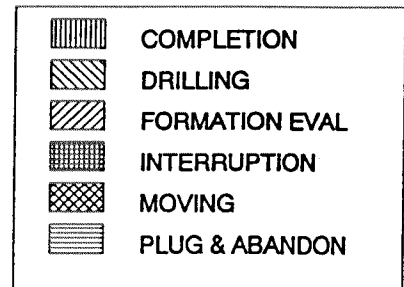
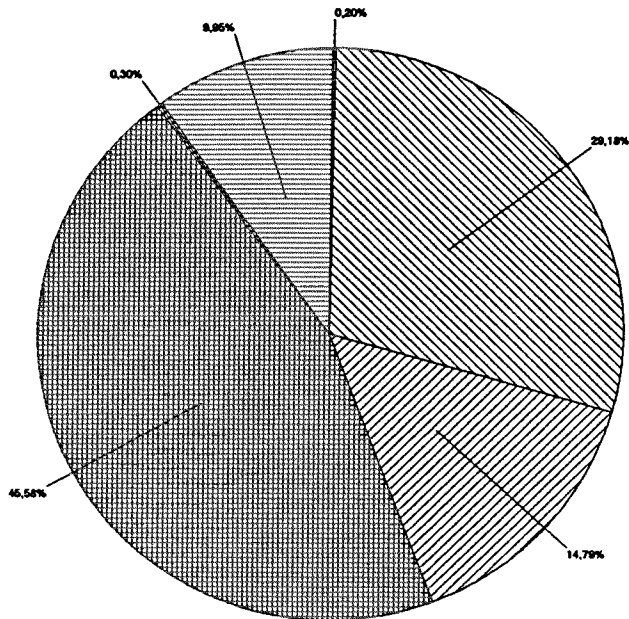
Interval below KB	Remarks
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AVAILABLE LOGS

Log type	Intervals	1/200	1/500	Div.
CBL VDL GR CCL	3499,0 - 3812,0	X		
CNL GR CCL	3685,0 - 3800,0	X	X	
FGL GR	3590,0 - 3829,0	X	X	
MUD	3100,0 - 3865,0		X	
MWD	3090,0 - 3693,0	X	X	
MWD	3420,0 - 3712,0	X	X	
TDT-P	3488,0 - 3820,0	X		

Daily Drilling Report System (DDRS)

Operations for well: 25/2-12 A



Main operations	Minutes	Hours	% of total
COMPLETION	420	7,00	0,20
DRILLING	60498	1008,30	29,18
FORMATION EVAL	30660	511,00	14,79
INTERRUPTION	94512	1575,20	45,58
MOVING	630	10,50	0,30
PLUG & ABANDON	20640	344,00	9,95
Total	207360	3456,00	100,00

Operations for well: 25/2-12 A**Main operation: COMPLETION**

Sub operations	Minutes	Hours	% of total
BOP/WELLHEAD EQ	420	7,00	100,00
Total	420	7,00	100,00

Main operation: DRILLING

Sub operations	Minutes	Hours	% of total
BOP ACTIVITIES	1110	18,50	1,83
BOP/WELLHEAD EQ	1620	27,00	2,68
CASING	14670	244,50	24,25
CIRC/COND	1710	28,50	2,83
DRILL	26010	433,50	42,99
OTHER	120	2,00	0,20
PRESS DETECTION	180	3,00	0,30
REAM	1920	32,00	3,17
SURVEY	450	7,50	0,74
TRIP	12648	210,80	20,91
WAIT	60	1,00	0,10
Total	60498	1008,30	100,00

Main operation: FORMATION EVAL

Sub operations	Minutes	Hours	% of total
CIRC SAMPLES	120	2,00	0,39
CIRC/COND	1320	22,00	4,31
DST	15270	254,50	49,80
LOG	3960	66,00	12,92
OTHER	390	6,50	1,27
PROD TEST	1740	29,00	5,68
TRIP	7860	131,00	25,64
Total	30660	511,00	100,00

Main operation: INTERRUPTION

Sub operations	Minutes	Hours	% of total
FISH	35040	584,00	37,07
LOST CIRC	570	9,50	0,60
MAINTAIN/REP	8520	142,00	9,01
OTHER	390	6,50	0,41
SIDETRACK	12390	206,50	13,11
WAIT	14952	249,20	15,82
WELL CONTROL	22650	377,50	23,97
Total	94512	1575,20	100,00

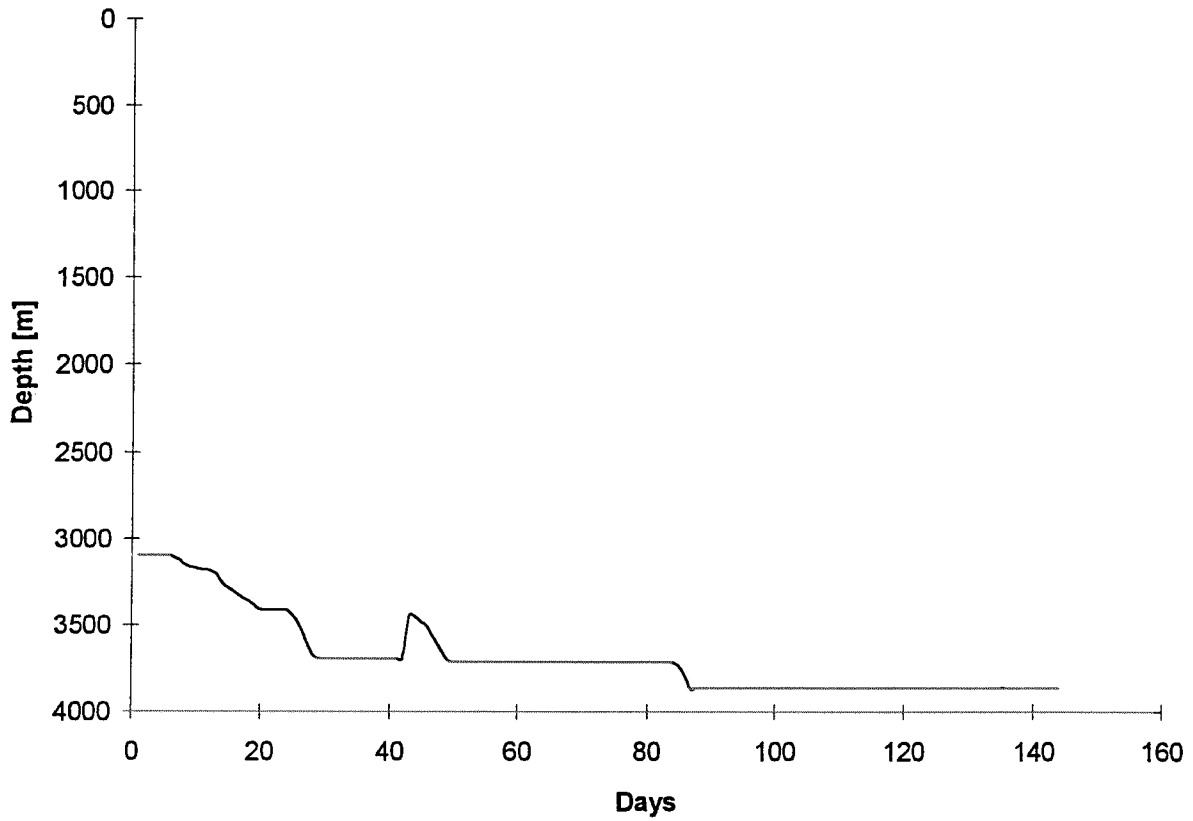
Main operation: MOVING

Sub operations	Minutes	Hours	% of total
ANCHOR	630	10,50	100,00
Total	630	10,50	100,00

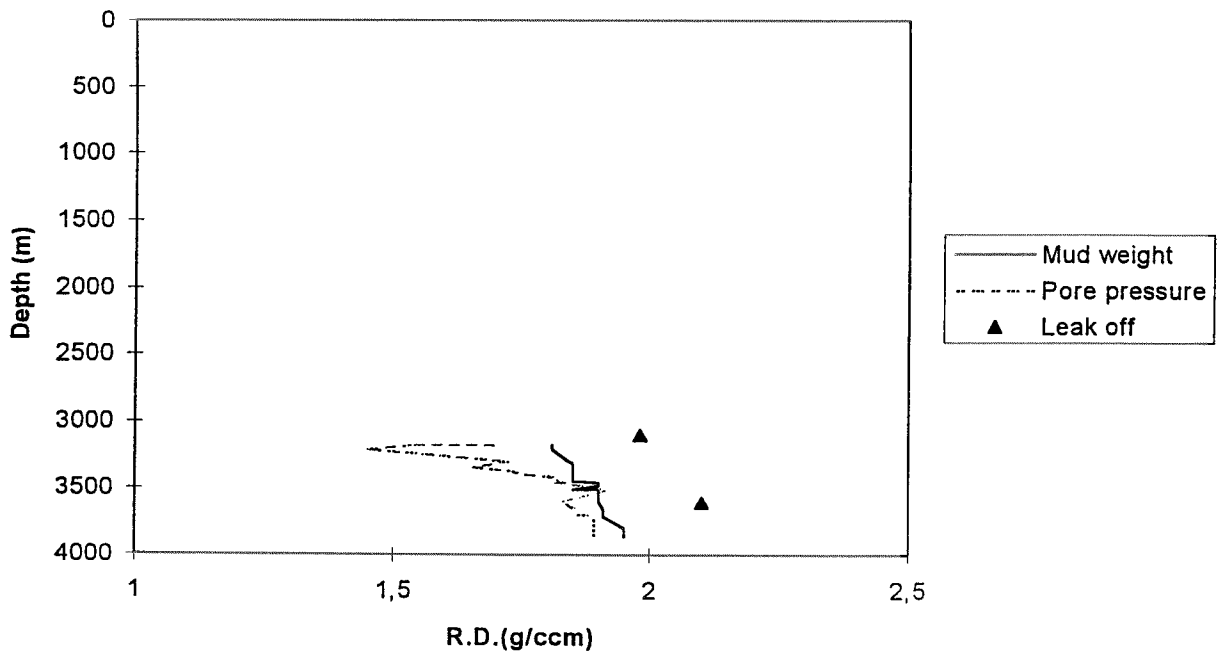
Main operation: PLUG & ABANDON

Sub operations	Minutes	Hours	% of total
CEMENT PLUG	900	15,00	4,36
CIRC/COND	1410	23,50	6,83
CUT	1140	19,00	5,52
EQUIP RECOVERY	1560	26,00	7,56
OTHER	1260	21,00	6,10
PERFORATE	1860	31,00	9,01
TRIP	11880	198,00	57,56
WAIT	630	10,50	3,05
Total	20640	344,00	100,00

Depth vs time for well: 25/2-12 A



Composite plot for well: 25/2-12 A



Well History 25/2-12 and 12 A.

General:

Well 25/2-12 was designed to drill the crest of a NNE-SSW trending westward tilting Jurassic fault block. The northern extension of this structure was drilled in 1975 by well 25/2-4 in a downdip position to well 25/2-12. A 70 m hydrocarbon bearing column was encountered in the Brent Group. The Statfjord Formation was found water bearing. The main objectives of well 25/2-12 were:

to appraise and test the hydrocarbon discovery of the Middle Jurassic Brent Group
to explore the Statfjord Formation updip from well 25/2-4.

The site survey report concluded that sand layers could be expected at 218 and 264 m RKB. The seismic showed no indication of shallow gas.

Operations:

Appraisal well 25/2-12 was spudded 17 July 1988, sidetracked 17 November 1988 by the semi-submersible rig West Vanquard. A 17 1/2" pilot hole was drilled from 197- 907 m RKB and then opened to 26". Sandlayers were encountered at 214 m and 259 m RKB, and MWD measurements showed no indication of shallow gas. A total of five cores were cut in well 25/2-12, No cores were cut in well 25/2-12 A. During drilling the string got stuck at 3692 m RKB. Fishing was unsuccessful, and the string was cut at 3485 m RKB. When entering the Brent reservoir the well flowed for several days. During drilling the 5 7/8" phase the string got stuck several times, and finally stuck at 3865 m RKB. While jarring the well started flowing again. Due to severe drilling problems no open hole logs were run in well 25/2-12 A. Well 25/2-12 was partially plugged and abandoned as a gas/condensate discovery 12 November 1988 at a depth of 4100 m RKB in the Brent Group. The sidetracked well 25/2-12 A was completed 6 April 1989 as a gas and condensate discovery at a depth of 3865 m RKB MD in the Brent Group by the above mentioned rig.

Testing:

One DST test was attempted in well 25/2-12 but failed due to sand influx.

Two DST was planned for the sidetrack, but only one was performed due to an unsuccessful fishing operation of the DST 1 string.

Geological Tops.

Well: 25/2-12 A.

	Depth m (RKB).
Nordland Group	137.0
Hordaland Group	1020.0
Frigg Fm	2042.0
Rogaland Group	2169.0
Balder Fm	2169.0
Sele Fm	2286.0
Lista Fm	2419.0
Våle Fm	2492.0
Maureen Fm	2580.0
Shetland Group	2622.0
Hardråde Fm	2622.0
Kyrre Fm	2912.0
Trygvason Fm	3329.0
Blodøks Fm	3550.0
Svarte Fm	3572.0
Viking Group	3708.0
Draupne Fm	3708.0
Heather Fm	3711.0
Brent Group	3721.0
Tarbert Fm	3721.0
T.D.	3865.0