

**General information**

Wellbore name	25/2-2
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	ØST FRIGG
Discovery	25/2-1 Øst Frigg
Well name	25/2-2
Seismic location	LINE 73-59-53-20 SP.415
Production licence	026
Drilling operator	Elf Petroleum Norge AS
Drill permit	110-L
Drilling facility	DEEPSEA DRILLER
Drilling days	42
Entered date	31.05.1974
Completed date	11.07.1974
Release date	11.07.1976
Publication date	01.12.2004
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	EOCENE
1st level with HC, formation	FRIGG FM
Kelly bushing elevation [m]	25.0
Water depth [m]	104.0
Total depth (MD) [m RKB]	2740.0
Bottom hole temperature [°C]	71
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	HARDRÅDE FM
Geodetic datum	ED50
NS degrees	59° 53' 34.8" N
EW degrees	2° 20' 15" E
NS UTM [m]	6639835.37
EW UTM [m]	462926.58
UTM zone	31
NPDID wellbore	354



Wellbore history

General

Well 25/2-2 is located east of the Frigg Field and south of the Frigg Øst Field, on the top of an E-W trending structure. The well was drilled to appraise the 25/2-1 Øst Frigg Discovery made in September 1973. The main target was lower Eocene sands where seismic sections displayed a bright spot in the western part of the closure just below the Frigg sand horizon. Secondary targets were Danian and Maastrichtian sands.

Operations and results

Appraisal well 25/2-2 was spudded with the semi-submersible installation Deepsea Driller on 31 May 1974 and drilled to TD at 2740 m in the Late Cretaceous Shetland Group.

Top Early Eocene sands (Frigg Formation) were encountered at 1949 m, 23 m lower than prognosed. The Hermod Formation came in at 2269 m while Danian sand (Ty Formation) was encountered at 2563 m and chalky limestone (Shetland Group) at 2703 m. Hermod and Ty were water wet. An increase in C1 and C2 at around 1950 m during drilling marked the top of the Frigg Formation reservoir. From electrical logs, FIT's and the DST Gas/oil and oil/water contacts were set at 1964.2 m and 1974.4 m, respectively. Three cores were cut from 1991 to 2012.5 m. The cores consisted almost entirely of sand with only some thin interbeds of silt in core number 2. Down to 2011 m the cored sands were brown coloured from oil stain, and direct fluorescence and cuts were very strong. No shows were observed from 2011 m to 2015.5 m in the base 1.5 m of core number 3. The DST carried out in the cored interval produced only water. Weak shows were recorded in the Ty Formation sands. Two FIT's at 1952 and 1968.2 in the Frigg Formation reservoir sampled gas and oil and recorded formation temperatures of 57.6 °C and 57.9 °C, respectively.

The well was permanently abandoned on 11 July 1974 as an oil and gas appraisal.

Testing

DST 1 carried out from 1983 to 1996 m produced 5.1 m3 of salt water (53 g/l).

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
460.00	2740.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1991.0	2001.5	[m]
2	2002.0	2004.0	[m]



3	2004.0	2012.5	[m]
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Total core sample length [m]	21.0
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
129	NORDLAND GP
887	HORDALAND GP
1949	FRIGG FM
2196	ROGALAND GP
2196	BALDER FM
2263	SELE FM
2269	HERMOD FM
2363	LISTA FM
2563	TY FM
2703	SHETLAND GP
2703	HARDRÅDE FM

Composite logs

Document name	Document format	Document size [MB]
354	pdf	0.31

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
354 01 WDSS General Information	pdf	0.25

Documents - reported by the production licence (period for duty of secrecy expired)





Document name	Document format	Document size [MB]
354 11 Resultats preliminaires diagraphies et essais	pdf	15.49
354 13 Study of clay sensitivity	pdf	1.31
354 14 Study of fluids from fit no2	pdf	0.17
354 15 Well prognosis	pdf	1.04
354 1 Completion Report & Completionlog	pdf	6.72
354 2 Geological report	pdf	6.72
354 4 Analysis of fluids from fit no 1	pdf	0.45
354 5 Caracteristiques reseervoir a partir du cpi	pdf	0.90
354 6 Core description	pdf	0.49
354 7 CPI coriband and analysis of comple x lithology	pdf	3.66
354 8 Palynological study on the lower tertiary	pdf	0.47
354 9 Premier resultats	pdf	0.17
354 10 Rapport dessais du puits	pdf	0.50
354 12 Results danalyses diffractometriques et granulometr	pdf	2.26
354 3 Analysis deaux	pdf	0.35

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	1983	1996	0.0

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0					

Logs





Log type	Log top depth [m]	Log bottom depth [m]
BHC GR	120	1917
BHC GR	1910	2720
CBL	1340	1910
CNT FDC	1910	2097
CNT FDC	1910	2721
DLL	1910	2720
HDT	1910	2721
IES	440	1917
IES	1910	2721
IES	1910	2097
ML MLL	1910	2721
VELOCITY	0	0

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	165.0	36	166.0	0.00	LOT
SURF.COND.	13 3/8	442.0	17 1/2	444.0	0.00	LOT
INTERM.	9 5/8	1912.0	12 1/4	1914.0	0.00	LOT
OPEN HOLE		2740.0	8 1/2	2740.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
904	1.13	43.0		water based	
1923	1.33	52.0		water based	
2274	1.23	55.0		water based	
2681	1.24	48.0		water based	
2740	1.23	48.0		water based	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.





Document name	Document format	Document size [MB]
354 Formation pressure (Formasjonstrykk)	pdf	0.22

