

**General information**

Wellbore name	25/2-8
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	25/2-8
Seismic location	EL 8305-201R OG EL 835-406
Production licence	026
Drilling operator	Elf Petroleum Norge AS
Drill permit	420-L
Drilling facility	LE PELERIN
Drilling days	45
Entered date	18.06.1984
Completed date	01.08.1984
Release date	01.08.1986
Publication date	18.05.2004
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]	12.0
Water depth [m]	106.0
Total depth (MD) [m RKB]	2380.0
Final vertical depth (TVD) [m RKB]	2380.0
Maximum inclination [°]	2
Bottom hole temperature [°C]	73
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	LISTA FM
Geodetic datum	ED50
NS degrees	59° 54' 45.14" N
EW degrees	2° 20' 27.62" E
NS UTM [m]	6642009.40
EW UTM [m]	463144.40



UTM zone	31
NPDID wellbore	131

Wellbore history

General

The appraisal well 25/2-8 was drilled on the East Frigg Field. The main objectives of the well were to obtain a better estimation of the gas reserves on East Frigg and good pressure data in both the Frigg sand and the Paleocene sand. To achieve better knowledge about the petrophysical characteristics of the different reservoirs, it was decided to core the Frigg sand, the shaly member, the tuff zone and the Paleocene sand.

Operations and results

The well was spudded with the drill ship Le Pelerin on 18 June 1984 and drilled to TD at 2380 m in the Lower Paleocene Lista Formation. Problems due to tight hole occurred in the 12 1/4" hole section. The pipe got stuck at 1397 m, but was worked free. Problems pressure testing the BOP occurred with hole depth at 1745 m. A cement plug was set from 1000 m to 890 m due to the BOP problems. The core barrel was lost in the hole when pulling out of the hole with core no 9. The fish was recovered. The well was drilled using a water-based mud.

The Frigg sand was reached as prognosed at 1917.5 m. This formation is 283 m thick with a 48.5 m hydrocarbon bearing column: gas from 1917.5 m to 1957 m and oil from 1957 to 1966 m. Below this level was 18 m of residual oil. Shows were detected on cores and cuttings down to 2040 m. Balder formation (Paleocene) was reached at 2201 m with several Intra Balder Formation Sandstones. RFT pressure measurements in the Frigg sand and Intra Balder Formation Sandstone indicated that there is no direct fluid communication between the two formations. RFT segregated fluid samples were recovered from 2259 m in Intra Balder Formation Sandstone and at 1956.7 m and 1993 m in the Frigg Formation. The Intra Balder Formation Sandstone sample and the deeper Frigg sample recovered only water and mud filtrate and no gas, while the upper Frigg Sample recovered mud filtrate with traces of oil and about one litre of gas. Nine cores were cut, seven in the Eocene and two in the Paleocene sequence. The well was permanently abandoned as an oil and gas appraisal on 1 August 1984.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
200.00	2380.00

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	1919.5	1926.0	[m]
2	1925.0	1931.8	[m]
3	1933.6	1939.0	[m]
4	1975.0	1982.0	[m]
5	2076.0	2084.1	[m]
6	2186.0	2193.5	[m]
7	2193.8	2200.0	[m]
8	2200.0	2209.0	[m]

Total core sample length [m]	56.5
Cores available for sampling?	YES

Core photos

1919-1920m



1920-1922m



1922-1924m



1925-1926m



1925-1927m



1927-1930m



1930-1932m



1932-1933m



1933-1935m



1935-1938m



1938-1941m



1975-1977m



1978-1980m



1980-1983m



2075-2078m



2078-2081m



2081-2084m



2185-2186m



2186-2188m



2188-2192m



2192-2195m



2195-2199m



2199-2201m



2201-2204m



2204-2208m



2208-2211m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
118	NORDLAND GP
425	UTSIRA FM
451	NO FORMAL NAME
951	HORDALAND GP
1015	GRID FM
1125	NO FORMAL NAME
1918	FRIGG FM
2201	ROGALAND GP
2201	BALDER FM
2202	INTRA BALDER FM SS
2206	BALDER FM
2222	INTRA BALDER FM SS
2229	BALDER FM
2232	INTRA BALDER FM SS
2242	BALDER FM



2257	INTRA BALDER FM SS
2271	BALDER FM
2278	INTRA BALDER FM SS
2294	SELE FM
2306	LISTA FM

Composite logs

Document name	Document format	Document size [MB]
131	pdf	0.40

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

Document name	Document format	Document size [MB]
131_01_WDSS_General_Information	pdf	0.21
131_02_WDSS_completion_log	pdf	0.22

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

Document name	Document format	Document size [MB]
131_25_2_8_COMPLETION_REPORT	PDF	0.68
131_25_2_8_COMPOSITE_LOG	pdf	1.13

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BGT	180	1064
CBL VDL CCL	125	1050
CST	1955	2268
HDT GR	1050	2380
LDL CAL GR	180	1064
LDL CNL CAL GR	0	0
LDL CNL CAL GR	1050	2380
MSFL DLL CAL GR	1890	2260
RFT HP GR	1922	2290





RFT HP GR	1924	2016
RFT HP GR	1940	1965
SLS DIL SFL SP GR	1050	2380
SLS ISF CAL GR	1690	2040
SLS ISF SP GR	180	1064

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	180.5	36	181.0	1.03	LOT
SURF.COND.	13 3/8	1050.0	17 1/2	1065.0	1.43	LOT
OPEN HOLE		2380.0	12 1/4	2380.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
905	1.09	20.0	16.0	WATER BASED	25.06.1984
1000	1.09	20.0	16.0	WATER BASED	25.06.1984
1065	1.10	20.0	16.0	WATER BASED	27.06.1984
1204	1.11	41.0	22.0	WATER BASED	03.07.1984
1272	1.16	41.0	22.0	WATER BASED	03.07.1984
1390	1.17	31.0	22.0	WATER BASED	04.07.1984
1442	1.20	29.0	24.0	WATER BASED	05.07.1984
1603	1.23	29.0	20.0	WATER BASED	06.07.1984
1745	1.25	28.0	18.0	WATER BASED	06.07.1984
1745	1.25	38.0	28.0	WATER BASED	10.07.1984
1745	1.25	33.0	9.3	WATER BASED	12.07.1984
1919	1.27	32.0	9.8	WATER BASED	13.07.1984
1924	1.28	31.0	7.8	WATER BASED	17.07.1984
1927	1.28	29.0	7.9	WATER BASED	16.07.1984
1943	1.28	30.0	7.9	WATER BASED	16.07.1984
2016	1.28	31.0	7.8	WATER BASED	17.07.1984
2020	1.28	29.0	7.9	WATER BASED	16.07.1984
2075	1.28	26.0	6.8	WATER BASED	18.07.1984
2153	1.28	28.0	6.8	WATER BASED	19.07.1984
2188	1.28	28.0	8.0	WATER BASED	20.07.1984
2201	1.28	31.0	7.8	WATER BASED	24.07.1984



2270	1.28	30.0	8.8	WATER BASED	24.07.1984
2328	1.28	30.0	7.8	WATER BASED	24.07.1984
2360	1.30	32.0	9.8	WATER BASED	24.07.1984
2380	1.30	30.0	9.8	WATER BASED	25.07.1984

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]
131 Formation pressure (Formasjonstrykk)	pdf	0.22

