

**General information**

Wellbore name	25/8-6
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	JOTUN
Discovery	25/8-5 S Jotun
Well name	25/8-6
Seismic location	ES 9403 & INLINE 2306 / CDP 1827
Production licence	027 P
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	813-L
Drilling facility	VILDKAT EXPLORER
Drilling days	40
Entered date	19.05.1995
Completed date	27.06.1995
Release date	27.06.1997
Publication date	29.08.2003
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	25.0
Water depth [m]	128.0
Total depth (MD) [m RKB]	2577.0
Final vertical depth (TVD) [m RKB]	2569.5
Maximum inclination [°]	13.4
Bottom hole temperature [°C]	88
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	59° 28' 18.42" N
EW degrees	2° 20' 15.37" E
NS UTM [m]	6592927.19



EW UTM [m]	462464.17
UTM zone	31
NPDID wellbore	2573

Wellbore history

General

Well 25/8-6 was drilled to appraise the 25/8-5 S Discovery (Jotun) resource base and to confirm the OWC. The well is located close to the crest of the field, close to the western block boundary and PL103, who participated in the well.

The well was drilled as a possible future vertical sub-sea producer.

Operations and results

Appraisal well 25/8-6 was spudded with the semi-submersible installation "Vildkat Explorer" on 19 May 1995 and drilled to TD at 2565 m. The well was drilled with seawater and hi-vis pills down to 1060 m and KCl/glycol mud from 1060 m to TD. Due to bad hole condition it was impossible to get wire line logs below 1460 m. The well was plugged back on 6 June and technically sidetracked (25/8-6T2) from just below the 13 3/8" casing at 1073 m using "Lo-Tox" mineral oil based mud. This well bore built up to 13" at 1329 m and then dropped back to vertical at 1600 m, the well was kept vertical down through the reservoir. It was drilled to TD at 2577 m in the in the Early Paleocene Ekofisk Formation. Successful wire line logging was achieved in this well bore. The well confirmed oil in the Heimdal Formation with OWC at 2090 m TVD SS (2122.6 m RKB in the technical sidetrack) in clean sand.

Eight cores were cut in the first well bore. Two were cut in shales of the Lista Formation (2054m to 2057 m and 2057 m to 2065 m). Due to very slow coring rate, coring was discontinued and a 12 1/4" hole was drilled down to 2077 m at the next core point. Six cores were subsequently cut in Heimdal Formation sandstone in the interval 2077 m to 2137.5 m. MDT fluid samples were taken in the Heimdal Formation at 2082.2 m (oil), 2122.1 m (oil), 2123.0 m (water + ca 15% oil), 2143.5 m (water), and 2145 m (water). After running TD logs, a string of 10-3/4" x 9-5/8" production casing was run and cemented, and the well was suspended on 27 June 1995 as an oil appraisal and potential future sub sea producer.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1070.00	2565.00

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	2054.0	2056.0	[m]
2	2057.0	2063.5	[m]
3	2077.0	2084.2	[m]
4	2084.5	2096.9	[m]
5	2097.0	2098.9	[m]
6	2100.0	2109.5	[m]
7	2109.5	2119.0	[m]
8	2119.0	2137.5	[m]

Total core sample length [m]	67.4
Cores available for sampling?	YES

Core photos

2054-2056m



2057-2061m



2061-2063m



2077-2081m



2081-2084m



2084-2088m



2088-2092m



2092-2096m



2096-2097m



2097-2099m



2100-2104m



2104-2108m



2108-2109m



2109-2113m



2113-2117m



2117-2119m



2119-2123m



2123-2127m



2127-2131m



2131-2135m



2135-2137m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1200.0	[m]	DC	STRAT
1320.0	[m]	DC	STRAT
1340.0	[m]	DC	STRAT
1380.0	[m]	DC	STRAT
1400.0	[m]	DC	STRAT
1440.0	[m]	DC	STRAT
1460.0	[m]	DC	STRAT
1480.0	[m]	DC	STRAT
1510.0	[m]	DC	STRAT
1540.0	[m]	DC	STRAT
1560.0	[m]	DC	STRAT
1580.0	[m]	DC	STRAT
1610.0	[m]	DC	STRAT
1640.0	[m]	DC	STRAT
1670.0	[m]	DC	STRAT
1700.0	[m]	DC	STRAT
1730.0	[m]	DC	STRAT
1760.0	[m]	DC	STRAT
1800.0	[m]	DC	STRAT
1840.0	[m]	DC	STRAT
1870.0	[m]	DC	STRAT
1900.0	[m]	DC	STRAT
1965.0	[m]	DC	STRAT



1980.0	[m]	DC	STRAT
2030.0	[m]	DC	STRAT
2054.0	[m]	DC	STRAT
2058.0	[m]	DC	STRAT
2063.0	[m]	DC	STRAT
2078.0	[m]	DC	STRAT
2084.0	[m]	DC	STRAT
2092.0	[m]	DC	STRAT
2107.0	[m]	DC	STRAT
2108.0	[m]	C	RRI
2118.0	[m]	DC	STRAT
2120.0	[m]	C	RRI
2124.0	[m]	C	RRI
2126.0	[m]	C	RRI
2127.0	[m]	DC	STRAT
2128.0	[m]	C	RRI
2136.0	[m]	C	RRI
2137.0	[m]	DC	STRAT
2148.0	[m]	C	RRI
2477.0	[m]	DC	STRAT
2486.0	[m]	DC	STRAT
2495.0	[m]	DC	STRAT
2531.0	[m]	DC	STRAT
2558.0	[m]	DC	STRAT
2565.0	[m]	DC	STRAT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
153	NORDLAND GP
428	UTSIRA FM
598	NO FORMAL NAME
644	HORDALAND GP
644	SKADE FM
975	NO FORMAL NAME
1185	GRID FM
1310	NO FORMAL NAME
1943	ROGALAND GP
1943	BALDER FM



1996	SELE FM
2034	LISTA FM
2077	HEIMDAL FM
2369	LISTA FM
2455	VÅLE FM
2485	TY FM
2527	SHETLAND GP
2527	EKOFISK FM

Geochemical information

Document name	Document format	Document size [MB]
2573_1	pdf	0.70

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

Document name	Document format	Document size [MB]
2573_25_8_6_COMPLETION_REPORT_AND_LOG	pdf	54.72

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT IPL HNGS ACTC PCD	1048	2574
AIT IPL HNGS ACTS	1048	2574
ARI GR	1048	1060
ARI GR	1048	1060
ARI IPL MSFL HNGS ACTS	1048	1460
ARI IPL MSFL HNGS ACTS	1048	1060
CBL VDL CCL GR	1235	2474
CST GR	1069	2549
EPT DSI GR ACTC	1048	2570
LWD - GR RES DEN NEU	2028	2073
LWD - GR RES DEN NEU	2055	2207
LWD - GR RES DEN NEU	2211	2561
MDT GR	2082	2201





MWD - GR RES	212	1055
MWD - GR RES	1048	2039
MWD - GR RES	1073	2258
MWD - GR RES	2258	2503
MWD - GR RES	2503	2571
VSP GR	153	2570

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	214.0	36	215.0	0.00	LOT
SURF.COND.	13 3/8	1048.0	17 1/2	1050.0	0.00	LOT
INTERM.	9 5/8	2577.0	12 1/4	2577.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
194	1.13			DUMMY	
1060	1.32	16.0		WATER BASED	
1063	1.32	17.0		WATER BASED	
1246	1.43	56.0		OIL BASED	
1667	1.43	44.0		OIL BASED	
2054	1.35	25.0		WATER BASED	
2077	1.35	22.0		WATER BASED	
2085	1.35	21.0		WATER BASED	
2100	1.37	22.0		WATER BASED	
2110	1.37	23.0		WATER BASED	
2138	1.37	21.0		WATER BASED	
2200	1.53	31.0		WATER BASED	
2211	1.37	20.0		WATER BASED	
2237	1.43	51.0		OIL BASED	
2320	1.43	47.0		OIL BASED	
2335	1.37	20.0		WATER BASED	
2473	1.37	20.0		WATER BASED	
2500	1.43	43.0		OIL BASED	
2507	1.43	45.0		OIL BASED	
2538	1.43	50.0		OIL BASED	



2565	1.50	28.0		WATER BASED	
2577	1.43	45.0		OIL 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]
2573 Formation pressure (Formasjonstrykk)	pdf	0.22

