General information

Wellbore name	25/8-5 SR
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	JOTUN
Discovery	25/8-5 S Jotun
Well name	25/8-5
Seismic location	ESD-511 SP 162.93 / ESD-107 SP 198.56
Production licence	027 P
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	793-L2
Drilling facility	STENA DEE
Drilling days	8
Entered date	27.07.1997
Completed date	03.08.1997
Plugged and abondon date	03.08.1997
Release date	03.08.1999
Publication date	29.08.2003
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	PLUGGING
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]	3395.0
Final vertical depth (TVD) [m RKB]	2912.6
Maximum inclination [°]	56.6
Bottom hole temperature [°C]	92
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SMITH BANK FM
Geodetic datum	ED50
NS degrees	59° 27' 27.1'' N

EW degrees	2° 21' 52.15'' E
NS UTM [m]	6591324.83
EW UTM [m]	463972.36
UTM zone	31
NPDID wellbore	3192

Wellbore history

General

The main objective of Well 25/8-5 S was to test the presence of hydrocarbons in both the lower Jurassic Statfjord Formation and in the Paleocene Heimdal Formation in the Elli Prospect. The well was to be drilled as a directional well in order to penetrate the two objectives.

Operations and results

Exploration well 25/8-5 S was spudded with the semi-submersible installation "Dyvi Stena" on 21 July 1994 and was drilled as a deviated well to a total depth of 3395 m (3040.7 m TVD RKB / 2887.7 m TVD SS), 57 m into late Triassic (Rhaetian) sediments of the Smith Bank Formation. The well was drilled vertical down to 1204 m before starting to build angle. It was drilled with seawater and hi-vis pills down to 1215 m and with KCl / polymer / PAC / Glycol from 1215 m to TD.

Top Heimdal Formation was penetrated at 2112.6 m (2050 m TVD SS) at an inclination of 33 degrees and an azimuth of 171 degrees and was found to contain oil. The oil-water contact was estimated at 2158 m (2087 m TVD SS). The well found sands of the Vestland Group at 2836 m (2570 m TVD SS) water-wet and the second objective, Statfjord Formation at 3040 m& (2687.3 m TVD SS) water-wet. The inclination at top Statfjord was 53.6 degrees and azimuth 163.5 degrees. Top Triassic was correlated to be at 3338 (2855.3 m TVD SS). The inclination was 55.2 degrees and azimuth 163.3 degrees at TD. The well was logged with LWD from 270 m to TD. The LWD included GR-Dual Resistivity and Compensated Density/Neutron. Wire line logs were run from 1170 m - 2291 m. Due to difficult hole conditions, it was not possible to run wire line logs below 2423 m. One core was cut in the Heimdal Formation from 2136 m to 2150 m and one core was cut in the Statfjord Formation from 3052 m to 3061 m. A FMT fluid sample was taken at 2133.6 (2067 m TVD SS) m in the Heimdal Formation. The well was suspended on 22 September as an oil discovery (Jotun). It was re-entered (25/8-5 S R) on 27 July 1997 for plugging and permanent abandonment. Permanent abandonment was completed on 3 August 1997.

Testing

The well was successfully tested in the Heimdal Formation, 2118 - 2149 m and flowed 1073 Sm3/day of 37& API oil through a 128/64 inch choke. The GOR was 38 Sm3/Sm3. No sand or water was produced.

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
151	NORDLAND GP

448	UTSIRA FM
608	NO FORMAL NAME
654	HORDALAND GP
654	SKADE FM
1000	NO FORMAL NAME
1247	GRID FM
1303	NO FORMAL NAME
1950	ROGALAND GP
1950	BALDER FM
2008	SELE FM
2068	LISTA FM
2113	HEIMDAL FM
2420	LISTA FM
2529	TY FM
2600	SHETLAND GP
2600	TOR FM
2780	CROMER KNOLL GP
2780	ÅSGARD FM
2795	VIKING GP
2795	DRAUPNE FM
2822	HEATHER FM
2836	VESTLAND GP
2836	HUGIN FM
2878	SLEIPNER FM
2922	DUNLIN GP
2922	AMUNDSEN FM
3040	STATFJORD GP
3338	NO GROUP DEFINED
3338	SMITH BANK FM

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
180	1.02			DUMMY	
1137	1.50	16.0		DUMMY	
2064	1.50	18.0		DUMMY	
2108	1.50	16.0		DUMMY	