

**General information**

Wellbore name	25/10-7 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	25/10-7
Seismic location	ESD 96-28 & SP 353- ESD 96-15 & SP 312
Production licence	028 P
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	840-L
Drilling facility	VILDKAT EXPLORER
Drilling days	20
Entered date	20.05.1996
Completed date	08.06.1996
Release date	08.06.1998
Publication date	29.08.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	117.0
Total depth (MD) [m RKB]	2617.0
Final vertical depth (TVD) [m RKB]	2582.0
Maximum inclination [°]	25.8
Bottom hole temperature [°C]	87
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	59° 4' 57.64" N
EW degrees	2° 8' 23.75" E
NS UTM [m]	6549726.89
EW UTM [m]	450703.95
UTM zone	31
NPDID wellbore	2769



Wellbore history

General

Well 25/10-7 S is located southwest of the Balder area. The primary objective of the well was to evaluate resource potential in the Paleocene Heimdal Formation in the Bjørn Prospect. Secondary objective was to evaluate resource potential in the Lower Eocene interval based on a high amplitude seismic response.

Operations and results

Exploration well 25/10-7 S was spudded with the semi-submersible installation "Vildkat Explorer" on 20 May 1996 and drilled to TD at 2617 m (2582 m TVD) in the Early Paleocene Ekofisk Formation. The well was drilled with seawater and bentonite down to 1102 m and with "ANCOVERT" oil based mud from 1102 m to TD. The well was drilled deviated to avoid shallow gas at a depth of 512-822 meters below sea level close to the proposed location. The surface location of 25/10-7 S was moved approximately 200 m south of the reservoir target location, and no shallow gas was seen at this location. The well was drilled vertically to 1165 m where angle was gradually built to max 25.8 degrees and then again reduced to 1& at 2000 m. Well time for 25/10-7 S was 19.78 days (vs. 31 days targeted) for \$4.7 M (vs. an AFE of \$6.7 M). A major contribution to the reduced time and cost was a reduction of the electric logging program from the planned 4 days to the actual of 0.6 days due to a labour dispute involving key service companies in Norway. A 233 m thick Heimdal Formation was penetrated by the well, starting at 2238 m. The secondary, Eocene target was a 22 m thick limestone. The plan was to cut one core in the top of the Heimdal sand, regardless of hydrocarbon shows. Coring continued after core no.2 based on shows described at well site. A total of five cores were cut from 2200-2378 m from the Lista Formation through a complete Heimdal sequence and into the Lista Formation again. Subsequent to the coring MWD logs reamed across cored interval showed reservoir to be water wet. In the end onshore geochemical analyses identified the core "shows" as contamination from the mud. In addition to the MWD GR-AIT-LDT-CNL-Array Sonic and VSP was run. The wire line logs showed a dry hole. The work program also had SWC's and MDT pressures and one sample planned, but as the wire line logs confirmed a dry hole, it was decided to abort the planned program and plug the well. The well was permanently abandoned as a dry well on June 8, 1996.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1110.00	2617.00

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	2200.0	2230.3	[m]
2	2232.0	2269.2	[m]
3	2269.2	2306.7	[m]
4	2306.7	2342.4	[m]
5	2342.4	2380.0	[m]

Total core sample length [m]	178.3
Cores available for sampling?	YES

Core photos



2200-2205m



2205-2210m



2210-2215m



2215-2220m



2220-2225m



2225-2230m



2230-2230m



2232-2237m



2237-2242m



2242-2247m



2247-2252m



2252-2257m



2257-2262m



2262-2267m



2267-2269m



2269-2274m



2274-2279m



2279-2284m



2284-2289m



2289-2294m



2294-2299m



2299-2304m



2304-2307m



2307-2311m



2311-2316m



2316-2321m



2321-2326m



2326-2331m



2331-2336m



2336-2341m



2341-2342m



2342-2347m



2347-2352m



2352-2357m



2357-2362m



2362-2367m



2367-2372m



2372-2377m



2377-2380m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
142	NORDLAND GP
586	UTSIRA FM
726	NO FORMAL NAME
823	HORDALAND GP
823	SKADE FM
1056	NO FORMAL NAME
1103	SKADE FM
1125	NO FORMAL NAME
1153	SKADE FM



1194	NO FORMAL NAME
1526	GRID FM
1538	NO FORMAL NAME
1553	GRID FM
1632	NO FORMAL NAME
2086	ROGALAND GP
2086	BALDER FM
2122	SELE FM
2186	LISTA FM
2238	HEIMDAL FM
2373	LISTA FM
2404	HEIMDAL FM
2427	LISTA FM
2465	TY FM
2498	VÅLE FM
2569	SHETLAND GP
2569	EKOFISK FM

Composite logs

Document name	Document format	Document size [MB]
2769	pdf	0.49

Geochemical information

Document name	Document format	Document size [MB]
2769_1	pdf	1.76

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

Document name	Document format	Document size [MB]
2769_25_10_7_S_COMPLETION_LOG	pdf	1.94
2769_25_10_7_S_COMPLETION_REPORT	pdf	121.79





Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT AS LDT CNL GR	1085	2592
MWD - GR EWR4 DIR	250	2605
VSP GR	1370	2515

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
SURF.COND.	30	202.0	36	203.0	0.00	LOT
INTERM.	9 5/8	1085.0	12 1/4	1086.0	0.00	LOT
OPEN HOLE		2617.0	8 1/2	2617.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
985	1.39	43.0		OIL BASED	
1102	1.37	32.0		OIL BASED	
1710	0.17	47.0		OIL BASED	
2200	1.37	43.0		OIL BASED	
2230	0.17	37.0		OIL BASED	
2265	1.39	41.0		OIL BASED	
2306	1.37	41.0		OIL BASED	
2380	1.38	34.0		OIL BASED	
2504	1.37	35.0		OIL BASED	
2547	1.38	36.0		OIL BASED	
2617	1.39	40.0		OIL BASED	