

**General information**

Wellbore name	25/11-20
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	25/11-20
Seismic location	NH 9301- ROW 940& COLUMN 1686
Production licence	169
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	826-L
Drilling facility	TREASURE SAGA
Drilling days	16
Entered date	08.10.1995
Completed date	23.10.1995
Release date	23.10.1997
Publication date	29.08.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	122.0
Total depth (MD) [m RKB]	1828.0
Final vertical depth (TVD) [m RKB]	1828.0
Maximum inclination [°]	2.3
Bottom hole temperature [°C]	76
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	TOR FM
Geodetic datum	ED50
NS degrees	59° 8' 44.62" N
EW degrees	2° 33' 44.27" E
NS UTM [m]	6556512.65
EW UTM [m]	474958.17
UTM zone	31
NPDID wellbore	2667



Wellbore history

General

Well 25/11-20 is located East of the Southern segment of the Grane field. The primary objectives of well 25/11-20 were to prove oil resources within reach of the Grane field production unit that can be produced through the Grane field installation and to test the geological and geophysical models for non-mounded Paleocene sands within the Licence area. The secondary objectives of well 25/11-20 were to define areas in the licence which can be relinquished and to reduce the uncertainties associated with the surrounding prospects. The well location was selected to provide an accurate seismic tie, i.e. an area with minimal compaction effects and away from faults, in an area where there are indications of a thick sand on the seismic data.

Operations and results

Well 25/11-20 was spudded with the semi-submersible installation "Treasure Saga" on 8 October 1995 and drilled to TD at 1828 m in limestones of the Late Cretaceous Tor Formation. The well was drilled water based with seawater and hi-vis bentonite sweeps down to 1254 m and with KCl / Polymer from 1254 m to TD. Unpredicted boulders were encountered at 152 m to 157 m, causing low ROP and extra work to keep the inclination small, otherwise no significant problems were encountered during drilling. Shallow gas was not predicted and not observed

No sands or shows were encountered in the Rogaland Group. An internal high acoustic impedance shale was present at depth 1683 m to 1705 m where Heimdal sands were prognosed. The seismic response for this shale in the SOF data set was similar to the response for the Heimdal sand in the Grane Field. Four cores were cut between 1661 m and 1719.5 m in the Balder, Sele, Lista, and Våle Formations. Coring was stopped 20 m under the prognosed top of the main sand. The well was permanently abandoned on 23 October 1995 as a dry hole.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1260.00	1828.00

Cuttings available for sampling?	YES
----------------------------------	-----

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1661.0	1678.3	[m]
2	1679.5	1697.1	[m]



3	1697.5	1708.3	[m]
4	1711.5	1719.5	[m]

Total core sample length [m]	53.7
Cores available for sampling?	YES

Core photos

1661-1666m



1666-1671m



1671-1676m



1676-1678m



1679-1684m



1684-1689m



1689-1694m



1694-1697m



1697-1702m



1702-1707m



1707-1708m



1711-1716m



1716-1719m



1747-1750m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1260.0	[m]	DC	RRI
1280.0	[m]	DC	RRI
1300.0	[m]	DC	RRI
1320.0	[m]	DC	RRI
1340.0	[m]	DC	RRI
1360.0	[m]	DC	RRI
1380.0	[m]	DC	RRI
1400.0	[m]	DC	RRI



1420.0 [m]	DC	RRI
1440.0 [m]	DC	RRI
1460.0 [m]	DC	RRI
1500.0 [m]	DC	RRI
1520.0 [m]	DC	RRI
1540.0 [m]	DC	RRI
1550.0 [m]	SWC	RRI
1575.0 [m]	SWC	RRI
1600.0 [m]	SWC	RRI
1625.0 [m]	SWC	RRI
1640.0 [m]	SWC	RRI
1645.0 [m]	SWC	RRI
1645.0 [m]	DC	RRI
1650.0 [m]	DC	RRI
1650.0 [m]	SWC	RRI
1652.0 [m]	SWC	RRI
1660.0 [m]	SWC	RRI
1660.0 [m]	DC	RRI
1663.0 [m]	C	RRI
1666.0 [m]	C	RRI
1669.0 [m]	C	RRI
1672.0 [m]	C	RRI
1675.0 [m]	C	RRI
1678.0 [m]	C	RRI
1681.0 [m]	C	RRI
1684.0 [m]	C	RRI
1687.0 [m]	C	RRI
1688.0 [m]	C	RRI
1691.0 [m]	C	RRI
1695.0 [m]	C	RRI
1700.0 [m]	C	RRI
1706.0 [m]	C	RRI
1711.0 [m]	C	RRI
1716.0 [m]	C	RRI
1719.0 [m]	C	RRI
1721.0 [m]	SWC	RRI
1728.0 [m]	SWC	RRI
1735.0 [m]	SWC	RRI
1737.0 [m]	SWC	RRI
1739.0 [m]	SWC	RRI



1740.0	[m]	SWC	RRI
1743.0	[m]	SWC	RRI
1745.0	[m]	SWC	RRI
1747.0	[m]	SWC	RRI
1747.0	[m]	DC	RRI
1750.0	[m]	SWC	RRI
1755.0	[m]	SWC	RRI
1758.0	[m]	SWC	RRI
1762.0	[m]	DC	RRI
1763.0	[m]	SWC	RRI
1775.0	[m]	DC	RRI
1780.0	[m]	DC	RRI
1792.0	[m]	DC	RRI
1802.0	[m]	DC	RRI
1812.0	[m]	DC	RRI

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
148	NORDLAND GP
769	UTSIRA FM
793	NO FORMAL NAME
891	HORDALAND GP
891	SKADE FM
951	UNDIFFERENTIATED
1000	NO FORMAL NAME
1016	UNDIFFERENTIATED
1092	NO FORMAL NAME
1100	UNDIFFERENTIATED
1117	NO FORMAL NAME
1163	UNDIFFERENTIATED
1652	ROGALAND GP
1652	BALDER FM
1665	SELE FM
1672	LISTA FM
1761	VÅLE FM
1767	SHETLAND GP
1767	EKOFISK FM
1777	TOR FM



Composite logs

Document name	Document format	Document size [MB]
2667	pdf	0.28

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

Document name	Document format	Document size [MB]
2667 25 11 20 COMPLETION REPORT AND LOG	pdf	7.20

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	1550	1784
CST GR	1550	1765
DLL MSFL DSI LDL CNL GR SP AMS	1197	1671
DLL MSFL DSI LDL CNL GR SP AMS	1612	1827
MWD - GR RES DIR	148	1828
VSP GR AMS	243	1818

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	209.0	36	209.0	0.00	LOT
INTERM.	13 3/8	1254.0	17 1/2	1254.0	0.00	LOT
OPEN HOLE		1828.0	8 1/2	1828.0	1.87	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1254	1.21	13.0		WATER BASED	
1661	1.28	21.0		WATER BASED	
1679	1.28	20.0		WATER BASED	
1711	1.28	17.0		WATER BASED	
1789	1.28	16.0		WATER BASED	
1828	1.28	18.0		WATER BASED	