

**General information**

Wellbore name	15/12-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	15/12-1
Seismic location	LINE 511 138- 1975 SP.100
Production licence	038
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	132-L
Drilling facility	ROSS RIG (1)
Drilling days	62
Entered date	07.07.1975
Completed date	06.09.1975
Release date	06.09.1977
Publication date	24.09.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	24.4
Water depth [m]	95.0
Total depth (MD) [m RKB]	3269.0
Final vertical depth (TVD) [m RKB]	3269.0
Bottom hole temperature [°C]	113
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	58° 10' 32.6" N
EW degrees	1° 44' 23.1" E
NS UTM [m]	6449113.79
EW UTM [m]	425871.87
UTM zone	31
NPDID wellbore	94



Wellbore history

General

Well 15/12-1 was drilled in order to evaluate the Paleocene and Jurassic formations on a closed structure 5 km northeast of the Maureen Field which is located just across the UK-Norwegian median line in UK territory. The principle objectives of the 15/12-1 test were the Paleocene and Dogger (Hugin Formation) sandstones where oil accumulations had been proven in the Maureen field 5 km to the southwest on British sector.

The well is Reference Well for the Sleipner Formation.

Operations and results

Wildcat well 15/12-1 was spudded with the semi-submersible installation Ross Rig on 7 July 1975 and drilled to a total depth of 3269 m in Triassic fine-grained sandstone with green and red-brown shale of the Skagerrak Formation. The well was drilled with a lignosulphonate type of mud.

The Paleocene sandstone at 2633 m to 2643 m in 15/12-1 was encountered 6 m lower than in the Maureen no. 2 well. The sandstone is medium to coarse grained with good porosity (26%), but water wet. The Hugin sandstone was encountered some 50 m higher than in the Maureen no. 2 well. Oil shows were encountered on the cores from the Hugin Formation, but log analysis and FIT proved the sandstone to be water bearing. The logs also indicated shows of hydrocarbon in the Late Cretaceous limestone at 2925 - 2955 m, but log porosity was calculated from 0 to 6%, too tight to obtain a sample. The Late Triassic has good sand development that could be adequate for accumulation of hydrocarbons. During the drilling of the Triassic section, the background gas in mud and cuttings was near zero.

Eight cores were cut in the well. Paleocene sands (Lista and Maureen Formations) were cored from 2612.1 m to 2651.1 m. One core was cut in the Heather Formation from 3067 m to 3073.3 m; one core was cut from the Hugin Formation into the Sleipner Formation from 3125.7 m to 3143.7 m. The Sleipner Formation was further cored in three cores down to 3183 m. On the basis of log analysis, two points for FIT tests were picked: one point at 3142.5 m ($\bar{I}$ = 23%, SW = 66%) and one point at 3126.5 m ($\bar{I}$ = 11.2%, SW = 31%). Test I at 3142.5 m produced 0.3 litres mud and 9.9 l water with a light skim of oil. The oil skim probably came from the FIT tools hydraulics. Based on the chloride content the water in the sample probably contained a large proportion of mud filtrate. The other sample was a failure due to tight formation. The well was permanently abandoned as a dry well with shows on 6 September 1975.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
154.53	3267.46

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	8570.0	8578.0	[ft]
2	8579.0	8611.0	[ft]
3	8642.0	8698.0	[ft]
4	10063.0	10083.0	[ft]
5	10255.0	10314.0	[ft]
6	10314.0	10341.0	[ft]
7	10350.0	10409.0	[ft]
8	10409.0	10438.0	[ft]

Total core sample length [m]	88.4
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2990.0	[ft]	DC	
3080.0	[ft]	DC	
3170.0	[ft]	DC	
3250.0	[ft]	DC	
3340.0	[ft]	DC	
3430.0	[ft]	DC	
3530.0	[ft]	DC	
3620.0	[ft]	DC	
3710.0	[ft]	DC	
3800.0	[ft]	DC	
3890.0	[ft]	DC	
3980.0	[ft]	DC	
4070.0	[ft]	DC	
4160.0	[ft]	DC	
4250.0	[ft]	DC	
4340.0	[ft]	DC	
4430.0	[ft]	DC	
4520.0	[ft]	DC	
4610.0	[ft]	DC	
4700.0	[ft]	DC	
4790.0	[ft]	DC	
4880.0	[ft]	DC	



4970.0 [ft]	DC	
5060.0 [ft]	DC	
5150.0 [ft]	DC	
5240.0 [ft]	DC	
5330.0 [ft]	DC	
5420.0 [ft]	DC	
5510.0 [ft]	DC	
5600.0 [ft]	DC	
5690.0 [ft]	DC	
5780.0 [ft]	DC	
5840.0 [ft]	DC	RRI
5870.0 [ft]	DC	
5900.0 [ft]	DC	RRI
5960.0 [ft]	DC	RRI
5960.0 [ft]	DC	
6020.0 [ft]	DC	RRI
6050.0 [ft]	DC	
6080.0 [ft]	DC	RRI
6140.0 [ft]	DC	RRI
6140.0 [ft]	DC	
6200.0 [ft]	DC	RRI
6230.0 [ft]	DC	
6260.0 [ft]	DC	RRI
6320.0 [ft]	DC	
6330.0 [ft]	DC	RRI
6380.0 [ft]	DC	RRI
6410.0 [ft]	DC	
6440.0 [ft]	DC	RRI
6500.0 [ft]	DC	RRI
6500.0 [ft]	DC	
6560.0 [ft]	DC	RRI
6590.0 [ft]	DC	
6620.0 [ft]	DC	RRI
6680.0 [ft]	DC	RRI
6680.0 [ft]	DC	
6740.0 [ft]	DC	RRI
6770.0 [ft]	DC	
6800.0 [ft]	DC	RRI
6860.0 [ft]	DC	RRI
6860.0 [ft]	DC	



6920.0 [ft]	DC	RRI
6950.0 [ft]	DC	
6980.0 [ft]	DC	RRI
7040.0 [ft]	DC	RRI
7040.0 [ft]	DC	
7070.0 [ft]	DC	RRI
7160.0 [ft]	DC	RRI
7160.0 [ft]	DC	
7220.0 [ft]	DC	RRI
7250.0 [ft]	DC	
7280.0 [ft]	DC	RRI
7340.0 [ft]	DC	RRI
7340.0 [ft]	DC	
7400.0 [ft]	DC	RRI
7430.0 [ft]	DC	
7460.0 [ft]	DC	RRI
7520.0 [ft]	DC	RRI
7530.0 [ft]	DC	
7580.0 [ft]	DC	RRI
7640.0 [ft]	DC	RRI
7640.0 [ft]	DC	
7670.0 [ft]	DC	
7700.0 [ft]	DC	RRI
7760.0 [ft]	DC	RRI
7760.0 [ft]	DC	
7790.0 [ft]	DC	
7820.0 [ft]	DC	RRI
7820.0 [ft]	DC	
7850.0 [ft]	DC	
7880.0 [ft]	DC	RRI
7880.0 [ft]	DC	
7910.0 [ft]	DC	
7940.0 [ft]	DC	RRI
7940.0 [ft]	DC	
8000.0 [ft]	DC	
8100.0 [ft]	DC	
8190.0 [ft]	DC	
8200.0 [ft]	DC	
8300.0 [ft]	DC	
8320.0 [ft]	DC	



8350.0	[ft]	DC	
8380.0	[ft]	DC	
8400.0	[ft]	DC	
8410.0	[ft]	DC	
8420.0	[ft]	DC	
8440.0	[ft]	DC	
8460.0	[ft]	DC	
8490.0	[ft]	DC	
8520.0	[ft]	DC	
8540.0	[ft]	DC	
8560.0	[ft]	DC	
8576.0	[ft]	DC	
8586.0	[ft]	DC	
8603.0	[ft]	DC	
8660.0	[ft]	DC	
8674.0	[ft]	DC	
8697.0	[ft]	DC	
8790.0	[ft]	DC	
8890.0	[ft]	DC	
9000.0	[ft]	DC	
9100.0	[ft]	DC	
9200.0	[ft]	DC	
9340.0	[ft]	DC	
9360.0	[ft]	DC	
9410.0	[ft]	DC	
9450.0	[ft]	DC	
9490.0	[ft]	DC	
9540.0	[ft]	DC	
9595.0	[ft]	SWC	
9700.0	[ft]	DC	
9706.0	[ft]	SWC	
9800.0	[ft]	DC	
9830.0	[ft]	DC	
9850.0	[ft]	DC	
9900.0	[ft]	DC	
9930.0	[ft]	DC	
9950.0	[ft]	DC	
9970.0	[ft]	DC	
10050.0	[ft]	DC	
10063.0	[ft]	DC	



10073.0	[ft]	DC	
10083.0	[ft]	DC	
10100.0	[ft]	DC	
10150.0	[ft]	DC	
10200.0	[ft]	DC	
10250.0	[ft]	DC	
10264.0	[ft]	DC	
10327.0	[ft]	DC	
10331.0	[ft]	DC	
10350.0	[ft]	C	
10359.0	[ft]	C	
10389.0	[ft]	C	
10398.0	[ft]	C	
10410.0	[ft]	DC	
10418.0	[ft]	DC	
10426.0	[ft]	C	
10437.0	[ft]	C	
10710.0	[ft]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
119	NORDLAND GP
955	UTSIRA FM
1061	UNDIFFERENTIATED
1277	HORDALAND GP
2256	GRID FM
2277	NO FORMAL NAME
2395	ROGALAND GP
2395	BALDER FM
2425	SELE FM
2490	LISTA FM
2634	MAUREEN FM
2643	SHETLAND GP
2643	EKOFISK FM
2738	TOR FM
2884	HOD FM
2954	BLODØKS FM
2961	SVARTE FM



2992	CROMER KNOLL GP
2992	RØDBY FM
3006	VIKING GP
3006	DRAUPNE FM
3027	HEATHER FM
3123	VESTLAND GP
3123	HUGIN FM
3152	SLEIPNER FM
3204	NO GROUP DEFINED
3204	SKAGERRAK FM

Composite logs

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

Geochemical information

Document name	Document format	Document size [MB]
94_1	pdf	1.69

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

Document name	Document format	Document size [MB]
94_01_WDSS_General_Information	pdf	0.29

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

Document name	Document format	Document size [MB]
94_1_Completion_Report_and_Completion_log	pdf	22.22



**Logs**

Log type	Log top depth [m]	Log bottom depth [m]
BHC GR C	117	3269
CNL FDC GR	2100	3269
DIPMETER	2150	3269
DLL	2871	3262
IES	399	3269
TEMP	1119	2845
VSP	548	3266

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	155.0	36	155.0	0.00	LOT
SURF.COND.	20	399.0	26	413.0	0.00	LOT
INTERM.	13 3/8	1533.0	17 1/2	1538.0	0.00	LOT
INTERM.	9 5/8	2872.0	12 1/4	2874.0	0.00	LOT
OPEN HOLE		3269.0	8 1/2	3269.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
399	1.02			seawater	
2499	1.23			seawater	
3018	1.37			seawater	
3048	1.43			seawater	
3142	1.36			seawater	

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]
94 Formation pressure (Formasjonstrykk)	pdf	0.22

