General information

Wellbore name	33/9-15
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	33/9-15
Seismic location	E86X403& SP. 1001
Production licence	172
Drilling operator	Mobil Exploration Norway INC
Drill permit	727-L
Drilling facility	SOVEREIGN EXPLOR
Drilling days	47
Entered date	23.04.1992
Completed date	08.06.1992
Release date	08.06.1994
Publication date	27.02.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
1st level with HC, age	LATE JURASSIC
1st level with HC, formation	INTRA DRAUPNE FM SS
Kelly bushing elevation [m]	26.5
Water depth [m]	252.5
Total depth (MD) [m RKB]	3007.0
Final vertical depth (TVD) [m RKB]	3006.9
Maximum inclination [°]	2.8
Bottom hole temperature [°C]	100
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	ETIVE FM
Geodetic datum	ED50
NS degrees	61° 24' 24.67'' N
EW degrees	1° 57' 15.76'' E
NS UTM [m]	6808715.45
EW UTM [m]	444170.28
UTM zone	31
NPDID wellbore	1810

Wellbore history

General

The 33/9-15 well is located on the northwestern flank of the Tampen Spur geological province, on the western margin of the North Viking Graben. To the north of the well location lies the Statfjord Nord oil field with the main Statfjord oil field to the south and Statfjord Øst to the Southeast. Well 33/9-15 was drilled in the southern part of Licence PL172. The primary objective was to evaluate the hydrocarbon potential of a Late Jurassic Intra Draupne Sandstone unit, which was thought to be similar to, or possibly associated with, the nearby Statfjord Nord field. The secondary objective was to evaluate Middle Jurassic sands of the Brent Group.

Operations and results

The well 33/9-15 was spudded with the semi-submersible rig Sovereign Explorer on 23 April 1992 and drilled to TD at 3007 m in the middle Jurassic Etive Formation. The well was drilled with seawater and hi-vis pills down to 416 m and with KCl / Polymer mud from 416 m to TD. Weak shows appeared on cores at the Mime Formation level. A thin oil zone was encountered at the top of the Munin sandstone unit of the Draupne Formation and two additional thin oil zones were seen further down in the Munin sandstone. No shows were seen in the Brent Group. Three RFT fluid samples were taken in the Intra Draupne Formation Sandstone at 2743.5 m, 2783.2 m, and 2829.8 m. They all contained water with trace of oil. The sample from 2829 m contained sufficient oil for analysis, which gave an oil density of 0.859 g/cm3 (33.1 API gravity). Eight cores were cut in the interval 2711 m to 2838 m, two in the Cromer Knoll Group, one from the base Mime Formation and into the upper Draupne Formation and the remaining five in the Draupne Formation.

The well was permanently abandoned on 8 June 1992 as a dry hole with oil shows.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
430.00	3007.00

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	2711.0	2721.8	[m]
2	2723.0	2731.6	[m]

3	2733.0	2769.6	[m]
4	2770.2	2783.1	[m]
5	2783.0	2800.5	[m]
6	2801.0	2806.7	[m]
7	2811.0	2820.0	[m]
8	2820.0	2838.5	[m]

Total core sample length [m]	119.6
Cores available for sampling?	YES

Core photos


2711-2716m


2716-2721m


2721-2722m


2723-2728m


2728-2731m


2733-2738m


2738-2743m


2748-2753m


2753-2758m


2758-2763m


2763-2768m


2768-2769m


2770-2775m


2775-2780m


2780-2783m


2788-2793m


2793-2798m


2798-2800m


2801-2806m


2806-2807m


2811-2816m


2816-2820m


2820-2825m


2825-2830m


2830-2835m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
421.5	[m]	SWC	RRI
450.0	[m]	SWC	RRI
481.5	[m]	SWC	RRI
511.0	[m]	SWC	RRI
526.0	[m]	SWC	RRI
560.0	[m]	SWC	RRI
576.5	[m]	SWC	RRI
603.5	[m]	SWC	RRI
615.0	[m]	SWC	RRI
623.5	[m]	SWC	RRI
638.0	[m]	SWC	RRI
653.0	[m]	SWC	RRI
685.0	[m]	SWC	RRI
700.0	[m]	SWC	RRI
745.0	[m]	SWC	RRI
775.5	[m]	SWC	RRI
790.0	[m]	SWC	RRI
850.0	[m]	SWC	RRI
865.0	[m]	SWC	RRI
880.0	[m]	SWC	RRI
894.5	[m]	SWC	RRI
910.0	[m]	SWC	RRI
923.5	[m]	SWC	RRI
939.0	[m]	SWC	RRI
962.0	[m]	SWC	RRI
998.5	[m]	SWC	RRI
1024.5	[m]	SWC	RRI
1030.0	[m]	SWC	RRI
1041.0	[m]	SWC	RRI

1052.5	[m]	SWC	RRI
1067.0	[m]	SWC	RRI
1075.0	[m]	SWC	RRI
1092.0	[m]	SWC	RRI
1110.0	[m]	SWC	RRI
1130.0	[m]	SWC	RRI
1150.0	[m]	SWC	RRI
1180.0	[m]	SWC	RRI
1200.0	[m]	SWC	RRI
1220.0	[m]	DC	RRI
1240.0	[m]	DC	RRI
1260.0	[m]	DC	RRI
1280.0	[m]	DC	RRI
1290.0	[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
1480.0	[m]	DC	RRI
1500.0	[m]	DC	RRI
1520.0	[m]	DC	RRI
1540.0	[m]	DC	RRI
1540.0	[m]	DC	RRI
1560.0	[m]	DC	RRI
1580.0	[m]	DC	RRI
1600.0	[m]	DC	RRI
1610.0	[m]	DC	RRI
1620.0	[m]	DC	RRI
1640.0	[m]	DC	RRI
1660.0	[m]	DC	RRI
1680.0	[m]	DC	RRI
1690.0	[m]	DC	RRI
1700.0	[m]	DC	RRI
1710.0	[m]	DC	RRI
1720.0	[m]	DC	RRI

1740.0	[m]	DC	RRI
1760.0	[m]	DC	RRI
1780.0	[m]	DC	RRI
1800.0	[m]	DC	RRI
1820.0	[m]	DC	RRI
1840.0	[m]	DC	RRI
1860.0	[m]	DC	RRI
1880.0	[m]	DC	RRI
1900.0	[m]	DC	RRI
1920.0	[m]	DC	RRI
1940.0	[m]	DC	RRI
1960.0	[m]	DC	RRI
1980.0	[m]	DC	RRI
2000.0	[m]	DC	RRI
2020.0	[m]	DC	RRI
2040.0	[m]	DC	RRI
2060.0	[m]	DC	RRI
2080.0	[m]	DC	RRI
2100.0	[m]	DC	RRI
2120.0	[m]	DC	RRI
2140.0	[m]	DC	RRI
2150.0	[m]	DC	RRI
2155.0	[m]	SWC	RRI
2170.0	[m]	DC	RRI
2170.0	[m]	SWC	RRI
2185.0	[m]	SWC	RRI
2190.0	[m]	DC	RRI
2205.0	[m]	SWC	RRI
2210.0	[m]	DC	RRI
2220.0	[m]	DC	RRI
2240.0	[m]	SWC	RRI
2260.0	[m]	DC	RRI
2280.0	[m]	DC	RRI
2300.0	[m]	DC	RRI
2320.0	[m]	DC	RRI
2340.0	[m]	DC	RRI
2360.0	[m]	DC	RRI
2380.0	[m]	DC	RRI
2400.0	[m]	DC	RRI
2420.0	[m]	DC	RRI

2440.0	[m]	DC	RRI
2460.0	[m]	DC	RRI
2480.0	[m]	DC	RRI
2500.0	[m]	DC	RRI
2520.0	[m]	DC	RRI
2534.0	[m]	SWC	RRI
2550.0	[m]	DC	RRI
2565.0	[m]	SWC	RRI
2578.0	[m]	SWC	RRI
2588.0	[m]	SWC	RRI
2603.0	[m]	DC	RRI
2615.5	[m]	SWC	RRI
2633.0	[m]	DC	RRI
2651.0	[m]	DC	RRI
2669.0	[m]	DC	RRI
2687.0	[m]	DC	RRI
2696.0	[m]	DC	RRI
2706.5	[m]	SWC	RRI
2711.0	[m]	C	RRI
2714.0	[m]	C	RRI
2716.0	[m]	SWC	RRI
2718.0	[m]	C	RRI
2720.0	[m]	C	RRI
2725.0	[m]	C	RRI
2730.0	[m]	C	RRI
2731.0	[m]	C	RRI
2732.0	[m]	C	RRI
2733.0	[m]	C	RRI
2735.0	[m]	C	RRI
2737.0	[m]	C	RRI
2739.0	[m]	C	RRI
2740.0	[m]	C	RRI
2742.0	[m]	C	RRI
2744.0	[m]	C	RRI
2745.0	[m]	C	RRI
2747.0	[m]	C	RRI
2750.0	[m]	C	RRI
2753.0	[m]	C	RRI
2755.0	[m]	C	RRI
2760.0	[m]	C	RRI

2764.0	[m]	C	RRI
2768.0	[m]	C	RRI
2771.0	[m]	C	RRI
2774.0	[m]	C	RRI
2776.0	[m]	C	RRI
2781.0	[m]	C	RRI
2786.0	[m]	C	RRI
2788.0	[m]	C	RRI
2792.0	[m]	C	RRI
2796.0	[m]	C	RRI
2800.0	[m]	C	RRI
2804.0	[m]	C	RRI
2806.6	[m]	C	RRI
2808.0	[m]	DC	RRI
2812.0	[m]	C	RRI
2816.0	[m]	C	RRI
2820.0	[m]	C	RRI
2825.0	[m]	C	RRI
2830.0	[m]	C	RRI
2838.0	[m]	C	RRI
2843.0	[m]	DC	RRI
2849.0	[m]	DC	RRI
2852.0	[m]	DC	RRI
2865.0	[m]	SWC	RRI
2873.0	[m]	DC	RRI
2879.0	[m]	DC	RRI
2888.0	[m]	DC	RRI
2894.0	[m]	DC	RRI
2900.0	[m]	DC	RRI
2905.0	[m]	SWC	RRI
2909.0	[m]	DC	RRI
2912.0	[m]	DC	RRI
2918.0	[m]	DC	RRI
2924.0	[m]	DC	RRI
2930.0	[m]	DC	RRI
2933.0	[m]	DC	RRI
2939.0	[m]	DC	RRI
2942.0	[m]	DC	RRI
2943.0	[m]	SWC	RRI
2951.0	[m]	DC	RRI

2954.0	[m]	DC	RRI
2958.0	[m]	SWC	RRI
2963.0	[m]	DC	RRI
2963.0	[m]	DC	RRI
2965.5	[m]	SWC	RRI
2969.0	[m]	DC	RRI
2971.0	[m]	SWC	RRI
2978.0	[m]	DC	RRI
2987.0	[m]	DC	RRI
2996.0	[m]	DC	RRI
3002.0	[m]	DC	RRI
3007.0	[m]	DC	RRI

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
279	NORDLAND GP
924	UTSIRA FM
998	HORDALAND GP
1206	NO FORMAL NAME
1238	NO FORMAL NAME
1282	NO FORMAL NAME
1690	ROGALAND GP
1690	BALDER FM
1783	LISTA FM
1923	VÅLE FM
1935	SHETLAND GP
1935	JORSALFARE FM
2120	KYRRE FM
2702	CROMER KNOLL GP
2702	RØDBY FM
2714	SOLA FM
2717	ÅSGARD FM
2737	MIME FM
2742	VIKING GP
2742	DRAUPNE FM
2743	INTRA DRAUPNE FM SS
2841	DRAUPNE FM
2851	HEATHER FM

2945	BRENT GP
2945	TARBERT FM
2958	NESS FM
3003	ETIVE FM

Composite logs

Document name	Document format	Document size [MB]
1810	pdf	0.44

Geochemical information

Document name	Document format	Document size [MB]
1810_1	pdf	2.75
1810_2	pdf	2.41

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

Document name	Document format	Document size [MB]
1810_01_WDSS_General_Information	pdf	0.45
1810_02_WDSS_completion_log	pdf	0.19

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

Document name	Document format	Document size [MB]
1810_33_9_15_COMPLETION_REPORT_AND_LOG	pdf	59.97

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CET GR	650	1200
CST GR	421	1200
CST GR	2155	2205

CST GR	2227	2993
CST GR	2578	2993
DIT LSS GR AMS LSS-VDL	1199	2220
DIT LSS LDT GR AMS	250	1204
DIT SDT GR AMS SDT-VDL	2208	3010
DLL MSFL AMS GR	2208	3010
LDT CNT AMS NGT	2208	3010
LSAL SWAL GR	406	1198
LSAL SWAL GR	1158	2220
LSAL SWAL GR	2150	3010
MWD - RES DIR GR MEM	416	1205
MWD - RES DIR GR MEM	1210	2218
MWD - RES DIR GR MEM	2218	3007
MWD - RES GR DIR	279	413
RFT HP GR P+S	2776	2829
RFT HP GR P+S	2782	2783
RFT HP GR P+S	2828	2829
SHDT AMS GR	2208	3010
VSP	400	3000

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	411.0	36	416.0	0.00	LOT
INTERM.	13 3/8	1199.0	17 1/2	1210.0	1.71	LOT
INTERM.	9 5/8	2209.0	12 1/4	2218.0	1.90	LOT
OPEN HOLE		3007.0	8 1/2	3007.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
413	1.26	20.0		WATER BASED	
535	1.13	28.0		WATER BASED	
875	1.13	28.0		WATER BASED	
1205	1.13	14.0		WATER BASED	
1205	1.13	14.0		WATER BASED	
1490	1.26	14.0		WATER BASED	

1774	1.35	16.0		WATER BASED	
1943	1.46	24.0		WATER BASED	
2218	1.49	30.0		WATER BASED	
2603	1.54	33.0		WATER BASED	
2711	1.57	33.0		WATER BASED	
2770	1.57	26.0		WATER BASED	
2797	1.57	30.0		WATER BASED	
3007	1.57	27.0		WATER 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]
1810_Formation_pressure_(Formasjonstrykk)	pdf	0.21