



## General information

Wellbore name	34/11-2 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	<a href="#">link to map</a>
Main area	NORTH SEA
Discovery	<a href="#">34/11-2 S (Nøkken)</a>
Well name	34/11-2
Seismic location	TFE 91- ROW 1111& COLUMN 653
Production licence	<a href="#">193</a>
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	838-L
Drilling facility	<a href="#">VILDKAT EXPLORER</a>
Drilling days	123
Entered date	16.01.1996
Completed date	17.05.1996
Plugged date	17.05.1996
Plugged and abandon date	23.04.2015
Release date	17.05.1998
Publication date	15.11.2012
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	BRENT GP
Kelly bushing elevation [m]	25.0
Water depth [m]	261.0
Total depth (MD) [m RKB]	4743.0
Final vertical depth (TVD) [m RKB]	4579.0
Maximum inclination [°]	48
Bottom hole temperature [°C]	172
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	61° 13' 33.24" N
EW degrees	2° 22' 56.81" E
NS UTM [m]	6788267.62



EW UTM [m]	466835.28
UTM zone	31
NPDID wellbore	2733

## Wellbore history

### General

Well 34/11-2 S was drilled on the Tjalve Terrace east of the Gullfaks Field in the northern North Sea. The main objective was to explore the hydrocarbon potential of the Middle Jurassic Brent Group reservoirs within the Beta structure. The secondary objective was to test for hydrocarbons in the Lower Jurassic/Triassic Statfjord Formation.

### Operations and results

Wildcat well 34/11-2 S was spudded with the semi-submersible installation Wildcat Explorer on 16 January 1996 and drilled to TD at 4743 m in the Early Jurassic Statfjord Formation. The well was drilled practically vertical down to ca 3139 m, ca 140 m below the 13 3/8" casing shoe, and deviated from this point. The drilling of the well was not performed within the plan due to lost time as a consequence of bad weather, steering and building angle in 12 1/4" hole section, extended logging, extended well and equipment failure. The well was drilled with pre-hydrated bentonite, seawater and bentonite sweeps down to 1170 m, with ANCO 2000 mud with 3.4 to 5.2% glycol from 1170 m to 3766 m, and with a KCl/polymer mud system from 3766 m to TD.

Oil was proven by MDT fluid sampling in a thin sand bed at 3797.5 m (3756.2 m TVD) above the main Brent Group reservoir. The Bathonian age of these sand beds imply that they belong to the upper part of the Brent Group. Sliding or faulting of huge blocks along the foot wall of the main fault could explain the presence of this Allochthonous "Brent Group" above the Heather Formation. Top of the main objective the Brent Group was penetrated at 4068.0 m

(3422.1 m TVD), 252 m deeper than the prognosis. Pressure measurements indicated hydrocarbon fluids present in the entire reservoir section, with one pressure regime in Tarbert and Upper Ness Formations and another some 20 bar higher in Lower Ness and Etive Formations. The DST tests confirm that the fluid systems are different with the lower Brent having the richest condensate. A shale layer at 4145 to 4175 m in the Ness Formation appears to be the pressure barrier. Due to poor quality pressure data (low permeability in reservoir) no conclusive hydrocarbon gradients were established. No fluid contacts could be derived from the MDT data. The log evaluation showed 100 % water saturation in the Rannoch Formation below 4288 m.

Acetone was used for oil shows extraction and poor shows were described from the whole well below 1170 m.

A total of 173.5 m core was recovered in 9 cores. All core depths are corrected to logger's depth. Core 1 was cut in the allochthonous Brent Group from 3846 m to 4478 m. Cores 2 to 5 were cut from 4083 to 4154 m in the upper reservoir compartment of the main Brent Group. Cores 6 to 8 were cut from 4209 m to 4294 m in the lower reservoir compartment of the main Brent Group. Core 9 was cut from 4460 m to 4478 m in the Early Jurassic Cook Formation. Fluid samples were taken with Schlumberger's MDT with Dual Packer tool. An oil sample was taken in Allochthonous Brent Group/Heather Formation at 3797.5 m and gas/condensate samples were taken in the in Ness Formation at 4178.0 m and in the Etive Formation at 4248.5 m.

The well was suspended on 16 January as a gas/condensate discovery.



**Testing**

Three tests were performed in the Brent Group.

Test 1A tested 4240 - 4260 m in the Etive formation. It produced only some mud to the surface and was aborted due to a failure during the clean up flow.

Test 1B tested the intervals 4240 - 4260 m interval in Etive plus 4185-4229 m in the Ness Formation. It produced 125 Sm<sup>3</sup> condensate and 126100 Sm<sup>3</sup> gas /day through a 36/64" choke. The GOR was 1000 Sm<sup>3</sup>/Sm<sup>3</sup>, the oil density was 0.795 g/cm<sup>3</sup> at 15 deg C, and the gas gravity was 0.750 (air = 1). The bottom hole flowing temperature was 133 deg C.

Test 2 tested the interval 4068 - 4142.5 m in the Tarbert and Ness formations. It produced 75 Sm<sup>3</sup> condensate and 172200 Sm<sup>3</sup> gas /day through a 32/64" choke. The GOR was 2300 Sm<sup>3</sup>/Sm<sup>3</sup>, the oil density was 0.800 g/cm<sup>3</sup> at 15 deg C, and the gas gravity was 0.690 (air = 1). The bottom hole flowing temperature was 125 deg C.

**Cuttings at the Norwegian Offshore Directorate**

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1180.00	4368.00

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	3846.0	3849.7	[m ]
2	4083.0	4110.8	[m ]
3	4111.0	4115.0	[m ]
4	4116.0	4125.4	[m ]
5	4126.0	4154.4	[m ]
6	4209.0	4237.0	[m ]
7	4237.0	4265.0	[m ]
8	4266.0	4293.9	[m ]
9	4460.0	4476.3	[m ]

Total core sample length [m]	173.5
Cores available for sampling?	YES



**Core photos**



3846-3849m



4083-4088m



4088-4093m



4093-4098m



4098-4103m



4103-4108m



4108-4110m



4110-4115m



4116-4121m



4121-4125m



4126-4131m



4131-4136m



4136-4141m



4141-4146m



4146-4151m



4151-4154m



4209-4214m



4214-4219m



4219-4224m



4224-4229m



4229-4234m



4234-4237m



4237-4242m



4242-4247m



4247-4252m



4252-4257m



4257-4262m



4262-4265m



4266-4271m



4271-4276m



4276-4281m



4281-4286m



4286-4291m



4291-4293m



4460-4465m



4465-4470m



4475-4476m-



4475-4476m

**Palynological slides at the Norwegian Offshore Directorate**

Sample depth	Depth unit	Sample type	Laboratory
1180.0	[m]	DC	GEOSTR
1200.0	[m]	DC	GEOSTR
1220.0	[m]	DC	GEOSTR
1240.0	[m]	DC	GEOSTR
1260.0	[m]	DC	GEOSTR
1280.0	[m]	DC	GEOSTR
1300.0	[m]	DC	GEOSTR
1320.0	[m]	DC	GEOSTR
1340.0	[m]	DC	GEOSTR
1360.0	[m]	DC	GEOSTR
1380.0	[m]	DC	GEOSTR
1400.0	[m]	DC	GEOSTR
1420.0	[m]	DC	GEOSTR
1440.0	[m]	DC	GEOSTR
1460.0	[m]	DC	GEOSTR
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# Factpages

## Wellbore / Exploration

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4588.0 [m]	SWC	WESTLB
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4614.0 [m]	DC	GEOSTR
4622.0 [m]	SWC	WESTLB
4645.0 [m]	SWC	WESTLB
4677.0 [m]	SWC	WESTLB
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4707.0 [m]	DC	GEOSTR
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**Oil samples at the Norwegian Offshore Directorate**



# Factpages

## Wellbore / Exploration

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Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST	TEST1B	4260.00	4185.00	CONDE NSATE	01.05.1996 - 00:00	YES

### Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
286	<a href="#">NORDLAND GP</a>
1034	<a href="#">UTSIRA FM</a>
1054	<a href="#">NO FORMAL NAME</a>
1123	<a href="#">HORDALAND GP</a>
1418	<a href="#">NO FORMAL NAME</a>
1507	<a href="#">NO FORMAL NAME</a>
1631	<a href="#">NO FORMAL NAME</a>
1666	<a href="#">NO FORMAL NAME</a>
1820	<a href="#">ROGALAND GP</a>
1820	<a href="#">BALDER FM</a>
1880	<a href="#">SELE FM</a>
1885	<a href="#">LISTA FM</a>
2033	<a href="#">SHETLAND GP</a>
2033	<a href="#">JORSALFARE FM</a>
2310	<a href="#">KYRRE FM</a>
2762	<a href="#">TRYGGVASON FM</a>
3342	<a href="#">SVARTE FM</a>
3559	<a href="#">CROMER KNOLL GP</a>
3697	<a href="#">VIKING GP</a>
3697	<a href="#">DRAUPNE FM</a>
3699	<a href="#">NO FORMAL NAME</a>
3755	<a href="#">NO FORMAL NAME</a>
3801	<a href="#">NO FORMAL NAME</a>
3865	<a href="#">HEATHER FM</a>
4068	<a href="#">BRENT GP</a>
4068	<a href="#">TARBERT FM</a>
4085	<a href="#">NESS FM</a>
4241	<a href="#">ETIVE FM</a>
4261	<a href="#">RANNOCH FM</a>
4320	<a href="#">BROOM FM</a>
4328	<a href="#">DUNLIN GP</a>



4328	<a href="#">DRAKE FM</a>
4433	<a href="#">COOK FM</a>
4478	<a href="#">BURTON FM</a>
4512	<a href="#">AMUNDSEN FM</a>
4696	<a href="#">STATFJORD GP</a>

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

Document name	Document format	Document size [MB]
<a href="#">2733_34_11_2_S_COMPLETION_REPORT_AND_COMPLETION_LOG</a>	pdf	45.37

**Drill stem tests (DST)**

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	4260	4240	15.8
2.0	4185	4260	12.7
3.0	4143	4068	12.7

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				
2.0	6.000	8.000	13.000	133
3.0		8.000	14.000	125

Test number	Oil [Sm <sup>3</sup> /day]	Gas [Sm <sup>3</sup> /day]	Oil density [g/cm <sup>3</sup> ]	Gas grav. rel.air	GOR [m <sup>3</sup> /m <sup>3</sup> ]
1.0					
2.0	125	126100	0.791	0.720	1009
3.0	75	172288	0.801	0.680	2305

**Logs**

Log type	Log top depth [m]	Log bottom depth [m]
ARI IPL GR ACTS	3749	4741
CST	3337	3764





CST GR	3777	4695
DLL DSI LDL GR	1157	2984
DLL DSI MSFL LDL CNL GR	2998	3763
DSI MSFL GR ACTS	3550	4737
FMS GR ACTS	3747	4742
MDT DP	3797	3797
MDT DP	4123	4248
MDT GR ACTS	3776	4739
MWD	364	4742

**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	356.0	36	356.0	0.00	LOT
SURF.COND.	20	1158.0	26	1158.0	1.56	LOT
INTERM.	13 3/8	2999.0	17 1/2	3010.0	1.83	LOT
INTERM.	9 5/8	3747.0	12 1/4	3747.0	1.87	LOT
LINER	7	4340.0	8 1/2	4743.0	0.00	LOT

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
741	1.03			DUMMY	
1173	1.03			DUMMY	
1675	1.39	26.0		ANCO 2000	
2057	1.45	24.0		ANCO 2000	
2388	1.45	23.0		ANCO 2000	
2999	1.50			DUMMY	
3010	1.45	21.0		ANCO 2000	
3079	1.50	26.0		ANCO 2000	
3364	1.39	19.0		ANCO 2000	
3755	1.55	28.0		ANCO 2000	
3797	1.59	24.0		KCL/PAC/XANVIS	
3851	1.55	23.0		ANCO 2000	
3871	1.55	21.0		ANCO 2000	
4154	1.55	22.0		ANCO 2000	
4273	1.55	23.0		ANCO 2000	



4742	1.55	31.0		KCL/PAC/XANVIS	
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### Thin sections at the Norwegian Offshore Directorate

Depth	Unit
4222.95	[m ]
4237.14	[m ]
4242.73	[m ]
4248.56	[m ]
4251.75	[m ]
4255.47	[m ]
4257.70	[m ]
4263.10	[m ]
4281.95	[m ]
4083.05	[m ]
4086.80	[m ]
4094.72	[m ]
4099.00	[m ]
4099.68	[m ]
4104.70	[m ]
4109.55	[m ]
4119.90	[m ]
4127.88	[m ]
4139.40	[m ]
4134.23	[m ]

### 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]
<a href="#">2733 Formation pressure (Formasjonstrykk)</a>	pdf	0.23

