

**General information**



Wellbore name	30/8-4 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	<a href="#">link to press release</a>
Factmaps in new window	<a href="#">link to map</a>
Main area	NORTH SEA
Discovery	<a href="#">30/8-4 S</a>
Well name	30/8-4
Seismic location	3D survey NH02M1-inline 1886 & x-line 1393
Production licence	<a href="#">190</a>
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1211-L
Drilling facility	<a href="#">TRANSOCEAN WINNER</a>
Drilling days	68
Entered date	29.11.2008
Completed date	04.02.2009
Release date	04.02.2011
Publication date	04.02.2011
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	26.0
Water depth [m]	93.5
Total depth (MD) [m RKB]	4210.0
Final vertical depth (TVD) [m RKB]	4154.5
Maximum inclination [°]	18
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	NESS FM
Geodetic datum	ED50
NS degrees	60° 20' 5.03" N
EW degrees	2° 36' 9.32" E
NS UTM [m]	6688913.56
EW UTM [m]	478056.63
UTM zone	31
NPDID wellbore	5974

## Wellbore history

### General

The Curran well 30/8-4 S was drilled west of the Ossebeg Sør field in the Viking Graben of the North Sea. The purpose of the exploration well 30/8-4 S was to prove commercial hydrocarbon volumes in the Curran structure, assess reservoir quality, determine fluid type and contacts and to verify regional sedimentology and provide input to depositional models.

### Operations and results

Wildcat well 30/8-4 S was spudded with the semi-submersible installation Transocean Winner on 29 November 2008 and drilled to TD at 4210 m (4154.5 m TVD) in the Middle Jurassic Ness Formation. No significant technical problem was encountered in the operations. Due to shallow gas warning, a 9 7/8" pilot hole was drilled from 185 m to 348 m. No shallow gas was seen. Well path was vertical down to 2700 m. Angle was built to around 16 deg at 3110 m. From here, a ca 16 deg angle was kept all the way to TD. The well was drilled with Seawater and bentonite sweeps down to 1062 m, with Glydriil mud from 1062 m to 3238 m, and with Versatec oil based mud from 3238 m to TD.

The expected large wedge of Late Jurassic turbidite deposits (Intra Draupne sandstone) was not found. Instead, the Heather formation was shallower and a well-developed Middle Heather (Middle Bathonian to Late Callovian) and Lower Heather (Early to late Bathonian age) was observed at well location. The Brent Group, Tarbert Formation, was found deeper than expected at 3899.5 m (3857.2 m TVD). The Middle Tarbert Formation at 3985.5 m (3939.6 m TVD) was oil bearing down to an ODT contact at 4003.7 m (3954 m TVD), giving a 14 m TVD oil column. PVT analyses of oil samples gave a single flash GOR of 427 Sm<sup>3</sup>/Sm<sup>3</sup> and a stock tank oil density of 0.827 g/cm<sup>3</sup> (i.e. light oil). The reservoir quality was poor, based on core analysis and logging data. Curran is evaluated to be a minor oil discovery. Oil shows were recorded in the top part of both of the cores otherwise no oil shows are reported from the well.

Two cores were cut in the well. Core 1 was cut at 3910.5 to 3937.7 m in the Upper Tarbert Formation and core 2 was cut at 3988.5 to 4042.5 m in the Middle Tarbert Formation. Oil sampling was performed with MDT and dual packer (Mini-DST) at 3987.5 m in Middle Tarbert Formation. The oil samples were contaminated 10-11% with oil based mud. Water sampling was performed at 4025.6 m in the Middle Tarbert Formation.

The well was permanently abandoned on 4 February 2009 as a minor oil discovery.

### Testing

No drill stem test was performed.

## Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
2320.00	4211.00
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	3910.5	3932.9	[m ]
2	3988.5	4041.2	[m ]

Total core sample length [m]	75.1
Cores available for sampling?	YES

### Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST		0.00	0.00	OIL	19.01.2009 - 00:00	YES

### Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
120	<a href="#">NORDLAND GP</a>
599	<a href="#">UTSIRA FM</a>
1255	<a href="#">NO FORMAL NAME</a>
2210	<a href="#">ROGALAND GP</a>
2210	<a href="#">BALDER FM</a>
2275	<a href="#">SELE FM</a>
2330	<a href="#">LISTA FM</a>
2455	<a href="#">VÅLE FM</a>
2533	<a href="#">SHETLAND GP</a>
2533	<a href="#">EKOFISK FM</a>
2541	<a href="#">HARDRÅDE FM</a>
2811	<a href="#">KYRRE FM</a>
3408	<a href="#">CROMER KNOLL GP</a>
3489	<a href="#">VIKING GP</a>
3489	<a href="#">DRAUPNE FM</a>
3520	<a href="#">HEATHER FM</a>
3899	<a href="#">BRENT GP</a>

3899	<a href="#">TARBERT FM</a>
4153	<a href="#">NESS FM</a>

## Geochemical information

Document name	Document format	Document size [MB]
<a href="#">5974_01_30_8_4S_gch_transfer_1</a>	txt	0.00
<a href="#">5974_02_30_8_4S_gch_results_1</a>	txt	0.12

## Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX HNGS ECS	3275	3275
AIT PEX HNGS ECS	3965	3965
DSI PEX	2306	3220
HF AIT PEX XPT	3246	3890
HF AIT PEX ZPT HNGS	3210	4210
HF CMR ECS	3875	4200
HF MDT	3987	4048
HF MDT MRPA	3988	4026
HF MDT MRPA MRPC	3940	3940
HF OBMI2 MSIP PPC1	3210	4180
MWD - TELESCOPE	120	186
MWD - TELESCOPE ARCRES	186	348
MWD - TELESCOPE ARCRES	186	2318
MWD - TELESCOPE ARCRES GVR	3218	4210
OBMI2 GPIT PPC	3290	3290
OBMI2 PPC1 MSIP PPC	3275	3275
PEX PPC1 HNGS	3275	3275
ZO VSP	2009	4190

## 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	181.0	36	181.0	0.00	LOT
SURF.COND.	20	1048.0	26	1062.0	1.55	LOT
INTERM.	13 3/8	2306.0	17 1/2	2316.0	1.71	LOT



INTERM.	9 5/8	3210.0	12 1/4	3238.0	1.93	LOT
OPEN HOLE		4210.0	8 1/2	4210.0	0.00	LOT

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
2155	1.37	23.0		Glydril	
2283	1.40	24.0		Glydril	
2313	1.55	28.0		Versatec	
2313	1.42	26.0		Glydril	
2411	1.45	24.0		Versatec	
2900	1.73	49.0		Versatec	
3086	1.51	29.0		Versatec	
3218	1.53	31.0		Versatec	
3231	1.60	37.0		Versatec	
3310	1.73	49.0		Versatec	
3500	1.71	41.0		Versatec	
3873	1.71	40.0		Versatec	
3910	1.73	41.0		Versatec	
4126	1.73	43.0		Versatec	
4203	1.76	50.0		Versatec	
4302	1.73	49.0		Versatec	