

**General information**

Wellbore name	34/10-52 B
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	GULLFAKS SØR
Discovery	34/10-52 B
Well name	34/10-52
Seismic location	
Production licence	050
Drilling operator	Statoil Petroleum AS
Drill permit	1370-L
Drilling facility	DEEPSEA ATLANTIC
Drilling days	16
Entered date	07.08.2011
Completed date	22.08.2011
Release date	22.08.2013
Publication date	22.08.2013
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	BRENT GP
Kelly bushing elevation [m]	32.0
Water depth [m]	134.0
Total depth (MD) [m RKB]	4050.0
Final vertical depth (TVD) [m RKB]	3616.0
Maximum inclination [°]	63.7
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	61° 4' 14.75" N
EW degrees	2° 11' 31.5" E
NS UTM [m]	6771099.11
EW UTM [m]	456398.97



UTM zone	31
NPDID wellbore	6658

Wellbore history

General

Well 34/10-52 B is a sidetrack to well 34/10-32 A, drilled to evaluate two fault segments, 10A and 10B on the southern part of the Gullfaks Sør field. The A well encountered an incomplete Brent Group package due to unprognosed faulting in fault segment 10B. The A well discovered oil and gas in Tarbert and upper Ness formations. Sidetrack B was drilled to penetrate and clarify the resource potential, hydrocarbon distribution and pressure conditions in segment 10A

Operations and results

Wildcat well 34/10-52 B was sidetracked on 7 August 2011 from well 34/10-52 A. The kick-off window was at 2720 - 2725 m. It was drilled with the semi-submersible installation Deepsea Atlantic and drilled to TD at 4050 m (3613 m TVD) in the Early Jurassic Drake Formation. Inclination angle was up to 64 deg at 3125 m, falling off to around 43 deg at 3550, and kept at that angle down to TD. No significant technical problem was encountered in the operations. The well was drilled with Versatec OBM from kick-off to TD.

A complete Brent package with prognosed thickness was observed. However, top Brent Group came in 70 m shallower than prognosed with the revised interpretation from well 34/10-52 A. Initial pressures were again measured and hydrocarbons were observed down to 3665 m (3332 m TVD). No oil shows were recorded due to the use of OBM.

No cores were cut. Wire line MRSC and MPSR fluid samples were taken at 3570 m (oil), 3609.1 m (oil), and at 3655 m (gas condensate).

The well was permanently abandoned on 22 August 2011 as an oil and gas discovery.

Testing

No drill stem test was performed.

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
MDT		3666.90	0.00	OIL	13.08.2011 - 00:00	NO
MDT		0.00	3575.10	OIL	13.08.2011 - 00:00	YES
MDT		0.00	3615.70	OIL	13.08.2011 - 00:00	YES

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
166	NORDLAND GP
947	UTSIRA FM
974	HORDALAND GP
1851	ROGALAND GP
1851	BALDER FM
1917	LISTA FM
2078	SHETLAND GP
3354	CROMER KNOLL GP
3464	VIKING GP
3464	HEATHER FM
3501	BRENT GP
3501	TARBERT FM
3608	NESS FM
3845	ETIVE FM
3874	RANNOCH FM
3998	DUNLIN GP
3998	DRAKE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL GR	210	760
CBL USIT GR	700	2120
GPIT PPC MSIP PPC GR	2100	3101
GYRO	0	0
MWD - ARCVRES9 PP	300	2162
MWD - PD ARCVRES8 TELE VADN8	2162	3101
MWD - XCEED ECO TELE STETH VSON6	2720	4050
PPCI EMS GR	250	791

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
INTERM.	9 5/8	2720.0	12 1/4	2720.0	1.94	LOT
LINER	7	3750.0	8 1/2	4050.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
2925	1.50	35.0		Versatec	
3707	1.50	38.0		Versatec	
3953	1.50	36.0		Versatec	
4050	1.50	39.0		Versatec	