

**General information**

Wellbore name	34/10-53 A
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	34/10-53 A
Well name	34/10-53
Seismic location	3D surv-ST0504-inline 1392 & xline 2331
Production licence	050
Drilling operator	Statoil Petroleum AS
Drill permit	1329-L
Drilling facility	DEEPSEA ATLANTIC
Drilling days	70
Entered date	24.03.2011
Completed date	01.06.2011
Release date	01.06.2013
Publication date	01.06.2013
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]	32.0
Water depth [m]	137.0
Total depth (MD) [m RKB]	4855.0
Final vertical depth (TVD) [m RKB]	3992.0
Maximum inclination [°]	60.9
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	61° 4' 4.71" N
EW degrees	2° 7' 0.34" E
NS UTM [m]	6770840.98
EW UTM [m]	452330.01



UTM zone	31
NPDID wellbore	6495

Wellbore history

General

Well 34/10-53 S and the subsequent geologic sidetrack 34/10-53 A was drilled in the Rimfaksdalen area, a down faulted and rotated fault-block in between Rimfaks and Gullfaks Sør. The general objective for the two wells was to determine the basis for further development in the Gullfaks Sør and Rimfaks area by exploring the Rutil, Opal and Brookitt prospects. The primary target for well 34/10-53 A was to test the Middle Jurassic Brent Group Opal prospect.

Operations and results

Wildcat well 34/10-53 A was kicked off at 2147 m in well 34/10-53 S on 24 March 2011. The well was drilled with the semi-submersible installation Deepsea Atlantic. It was drilled to base of 12 1/4" section at 4592 m where it was abandoned due to a leak in the 9 5/8" liner. A technical sidetrack 34/10-53 AT2 was initiated with kick off at 1972 m and this well bore was drilled to final TD at 4855 m (3992 m TVD) in the Middle Jurassic Drake Formation. Well 34/10-53 AT2 was drilled with Versatherm oil based mud.

The Brent Group, Tarbert Formation was encountered at 4544 m (3693 m TVD), 63 m shallower than prognosed and with a slightly thinner Brent package than expected. Gas was proven in two different hydrocarbon systems with a GDT situation in Tarbert Formation proving a column of 72 m (apex to GWC) and a GWC in Ness Formation proving a column of 98 m (Ness apex-GWC). Reservoir properties were worse than expected with a much lower N/G than observed in the 34/10-53 S track. No oil shows were reported in the well.

One core was cut from 4560 to 4591 m in the Tarbert Formation. The MDT tool was run on drill pipe (TLC). A gas sample was taken at 4546 - 4556 m and a water sample at 4756.5 m.

The well was permanently abandoned on 1 June 2011 as a gas/condensate discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
3900.00	4592.00

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	4560.0	4590.1	[m]

Total core sample length [m]	30.1
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		4630.50	0.00	OIL		YES
DST		0.00	4546.00	OIL		YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
169	NORDLAND GP
949	UTSIRA FM
980	HORDALAND GP
1879	ROGALAND GP
1879	BALDER FM
1940	LISTA FM
2116	SHETLAND GP
3981	CROMER KNOLL GP
4129	VIKING GP
4129	DRAUPNE FM
4184	HEATHER FM
4544	BRENT GP
4544	TARBERT FM
4619	NESS FM
4753	ETIVE FM
4760	RANNOCH FM



4822	DUNLIN GP
4822	DRAKE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - ARCVRES8 TELE VSONIC8 ADN	2154	4855
MDT	3640	4526
MDT	3654	3940
MDT	4566	4784
USIP MSIP	4470	4470

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	4591.0	12 1/4	4592.0	1.68	LOT
OPEN HOLE		5426.0	8 1/2	5426.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
889	1.48	42.0		Versatherm	
1978	1.39	32.0		Versatec	
3295	1.39	30.0		Versatec	
3868	1.47	37.0		Versatec	
4434	1.58	49.0		Versatec	
4560	1.48	43.0		Versatherm	
4592	1.58	42.0		Versatec	
4855	1.48	55.0		Versatherm	