

**General information**

Wellbore name	33/12-8 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	33/12-8 A Skinfaks
Well name	33/12-8
Seismic location	
Production licence	152
Drilling operator	Statoil ASA (old)
Drill permit	1037-L
Drilling facility	BØRGLAND DOLPHIN
Drilling days	21
Entered date	26.04.2002
Completed date	16.05.2002
Release date	16.05.2004
Publication date	18.05.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	31.0
Water depth [m]	137.0
Total depth (MD) [m RKB]	5098.0
Final vertical depth (TVD) [m RKB]	3399.0
Bottom hole temperature [°C]	119
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	RANNOCH FM
Geodetic datum	ED50
NS degrees	61° 4' 38.34" N
EW degrees	1° 57' 56.2" E
NS UTM [m]	6772000.95
EW UTM [m]	444189.05



UTM zone	31
NPDID wellbore	4532

Wellbore history

General

Well 33/12-8 A is a sidetrack from well 33/12-8 S in the Tampen Spur area. It is situated on a westerly rotated fault block on the southern part of the Beta Ridge. The main objective of well 33/12-8 A was to investigate the hydrocarbon potential in the Middle Jurassic Brent Group in the "Ole" prospect (Skinfaks segment N2), as a result of the positive hydrocarbon discovery in the Skinfaks N3 segment. The secondary objective was to identify the hydrocarbon contact in the Tarbert Formation.

Operations

The wildcat well 33/12-8 A was side-tracked from the 13 3/8" casing at 2066 m in well 33/12-8 S on 26 April 2002 with the semi-submersible installation Borgland Dolphin and drilled to TD at 5098 m /3399.5 m TVD RKB in the Rannoch Formation. The well was drilled with Versavert OBM from kick-off to TD. For well history above sidetrack, see well 33/12-8 S. Technical difficulties were experienced during the sidetrack of 33/12-8 A. Because of problems with attaining the necessary azimuth turn to reach target T1, it was necessary to pull out twice in the beginning of the well to get the desired well path.

Both geology and oil-water contact came approximately as prognosed in segment N2. Gas was proven in the uppermost part of the reservoir, while the lower part is oil filled. The sediment layers in segment N2 came in 30 meters deeper than prognosed.

No cores were cut. Twelve fluid samples were collected in well 33/12-8 A, in two reservoirs of the Tarbert Formation. Six of the samples were collected in the N3 reservoir. Oil was found in the samples collected from the depths 2954 and 2922 m. Gas/condensate was found at depths 2906 and 2868 m. The oil samples collected from depths 2922 and 2954 suffered different technical problems and one sample from 2922 contained 12 percent contamination. The gas/condensate samples contained 28 to 40 percent contamination. The last six samples were collected in the N2 reservoir. Water was found in the sample from depth 4606 m, oil was found in the samples collected from depth 4565 m, and gas/condensate was found in the samples from depths 4136.4 and 4033 m. The oil samples collected from depths 4565 m contained 15 percent contamination. The gas/condensate samples contained 3 to 19 percent contamination. The water sample was not registered with any contamination.

The pore pressure at the top of the Brent prospect in segment N2 is calculated to be 411 Bars (2825 m TVD MSL), corresponding to 1,48 g/cm³ EMW. Well 33/12-8 A was suspended on 16 May 2002 as an oil and gas discovery and a possible future producer.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
2090.00	5095.00



Cuttings available for sampling?	YES
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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	CONDE NSATE		YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
168	NORDLAND GP
840	UTSIRA FM
931	HORDALAND GP
1807	ROGALAND GP
1807	BALDER FM
1885	LISTA FM
2030	SHETLAND GP
2649	VIKING GP
2649	HEATHER FM
2866	BRENT GP
2866	TARBERT FM
3127	NESS FM
3182	TARBERT FM
3630	VIKING GP
3630	HEATHER FM
3902	BRENT GP
3902	TARBERT FM
4167	VIKING GP
4167	HEATHER FM
4554	BRENT GP
4554	TARBERT FM
4770	NESS FM
5041	ETIVE FM
5075	RANNOCH FM



Composite logs

Document name	Document format	Document size [MB]
4532	pdf	0.57

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

Document name	Document format	Document size [MB]
4532_33_12_8_A_COMPLETION_LOG	.pdf	2.27
4532_33_12_8_A_COMPLETION_REPORT	.pdf	0.60

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MDT TLC	2850	4606
MDT TLC	3125	5078
MWD - LWD CDR	2100	2283
MWD - LWD CDR	2283	2411
MWD - LWD CDR	2814	5098
MWD - LWD CDR BHI	2411	2814
PEX AITH GR	2778	3801
PEX AITH GR	3700	5078
PEX AITH GR MDT	2066	3170

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	5098.0	12 1/4	5098.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
2449	1.64	42.0		VERSAVERT	





2775	1.64	40.0		VERSAVERT	
2832	1.64	44.0		VERSAVERT	
3962	1.64	56.0		VERSAVERT	
4297	1.64	49.0		VERSAVERT	
4297	1.64	49.0		VERSAVERT	

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]
4532_Formation_pressure_(Formasjonstrykk)	pdf	0.22

