

**General information**

Wellbore name	34/10-45 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	RE-CLASS TO DEV
Press release	<a href="#">link to press release</a>
Factmaps in new window	<a href="#">link to map</a>
Main area	NORTH SEA
Field	<a href="#">GULLFAKS</a>
Discovery	<a href="#">34/10-45 S</a>
Well name	34/10-45
Seismic location	
Production licence	<a href="#">050</a>
Drilling operator	Statoil ASA (old)
Drill permit	1033-L
Drilling facility	<a href="#">GULLFAKS B</a>
Drilling days	26
Entered date	12.01.2002
Completed date	06.02.2002
Plugged date	15.02.2003
Release date	06.02.2004
Publication date	03.05.2004
Purpose - planned	APPRAISAL
Reclassified to wellbore	<a href="#">34/10-B-42 B</a>
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	NO
1st level with HC, age	LATE CRETACEOUS
1st level with HC, formation	NO FORMAL NAME
Kelly bushing elevation [m]	80.8
Water depth [m]	142.5
Total depth (MD) [m RKB]	6523.0
Final vertical depth (TVD) [m RKB]	2140.0
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	HEATHER FM
Geodetic datum	ED50
NS degrees	61° 12' 9.93" N
EW degrees	2° 12' 5.93" E
NS UTM [m]	6785795.10

EW UTM [m]	457094.51
UTM zone	31
NPDID wellbore	4501

## Wellbore history

### General

Well 34/10-45 A is situated in the Gullfaks area and is a sidetrack from well 34/10-45 S, which was lost due to technical problems during a casing operation. The primary objectives for well 34/10-45 A were to evaluate the distribution and thickness of the sand of supposed Cretaceous age penetrated in the well 45 S in the fault block D3 and to be an oil producer from the Tarbert Formation in segment D3 (Gullfaks Vest).

### Operations

The appraisal well 34/10-45 A was spudded on 12 January 2002 with the permanent installation Gullfaks B and drilled to TD at 6523 m (2140,1 m TVD RKB). The well 34/10-45 A was drilled from the kick-off point at 5405,5 m (1983 m TVD RKB) to TD with "Versavert" OBM.

The well confirmed a gas/condensate column of 19,5 m in the possible Cretaceous sandstone (Krans Member/Kyrre Fm). This was 21 m TVD shallower than initially prognosed (2007 m TVD MSL).

Ran in hole with CMR/MDT/GR on drill pipe and took pressure point and sample at 6412 m. Took pressure point and attempted to take sample at 6420 m. Reset tool at 6419 m and took sample. The MDT measurements in the Cretaceous sandstones penetrated in well 34/10-45 A show a pore pressure corresponding to 1,57 sg EMW, as indicated in the pressure prognosis given prior to drilling. No coring was performed in the well.

Well 34/10-45 A was a gas/condensate appraisal. It was plugged on 06 February 2002 as a producer and re-classed to development well 34/10-B-42-B.

### Testing

No drill stem test was performed in 34/10-45 A. After re-classing to 34/10-B-42-B the well was perforated at 6415 to 6427 m. The well was put on stream in March 2002, but the pressure dropped three times faster than expected.

## Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
223	<a href="#">NORDLAND GP</a>
1910	<a href="#">HORDALAND GP</a>
2394	<a href="#">ROGALAND GP</a>
2394	<a href="#">BALDER FM</a>
2757	<a href="#">LISTA FM</a>
3664	<a href="#">SHETLAND GP</a>
6372	<a href="#">NO FORMAL NAME</a>

6444	<a href="#">VIKING GP</a>
6444	<a href="#">HEATHER FM</a>

## Logs

Log type	Log top depth [m]	Log bottom depth [m]
CMR MDT DS1 USIT	5405	6523
MWD LWD - GR RES DEN NEU	5405	6523

## 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
LINER	7	6523.0	8 1/2	6523.0	0.00	LOT

## Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
5405	1.60	42.0		VERSAVERT	
5685	1.60	44.0		VERSAVERT	
6373	1.62	54.0		VERSAVERT	
6435	1.60	52.0		VERSAVERT	
6467	1.60	41.0		VERSAVERT	
6523	1.62	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]
<a href="#">4501_Formation_pressure_(Formasjonstrykk)</a>	pdf	0.21



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