

**General information**

Wellbore name	34/10-40 S
Type	EXPLORATION
Purpose	WILDCAT
Status	RE-CLASS TO DEV
Factmaps in new window	link to map
Main area	NORTH SEA
Field	GULLFAKS
Discovery	34/10-1 Gullfaks
Well name	34/10-40
Seismic location	Topp Brent:ST 8511 rekke 952 & cp 587.
Production licence	050
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	821-L
Drilling facility	GULLFAKS B
Drilling days	50
Entered date	13.08.1995
Completed date	13.10.1995
Release date	13.10.1997
Publication date	06.01.2014
Purpose - planned	WILDCAT
Reclassified to wellbore	34/10-B-35
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	80.7
Water depth [m]	142.5
Total depth (MD) [m RKB]	5900.0
Final vertical depth (TVD) [m RKB]	2375.6
Maximum inclination [°]	79
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	61° 12' 10.92" N
EW degrees	2° 12' 4.86" E
NS UTM [m]	6785825.93
EW UTM [m]	457078.91



UTM zone	31
NPDID wellbore	2634

Wellbore history

General

Well 34/10-40 S was drilled on the Gullfaks fault block on Tampen Spur in the North Sea. The primary objective was to prove hydrocarbons in the Brent Group in Segment 7, North of the main Gullfaks Field.

Operations and results

Well was spudded through slot 19 on the Gullfaks B platform on 13 August 1995 and drilled deviated to TD at 5900 m 2375.6 m TVD) in the Early Jurassic Drake Formation. The well was drilled with Seawater and PAC mud down to 1495 m and with ANCO 2000 mud from 1495 m to TD.

The Brent Group was penetrated at 5336 m (2118 m TVD) and contained a 6.5 m TVD gas column with a gas-water contact at 5358.5 m (2125 m TVD). The well also penetrated, unexpectedly, a ca 40 m thick Heather Formation on top of the Brent Group. RFT pressure measurements indicated pressure depletion in the Brent Group due to production from the Gullfaks Field. The well was therefore completed as a water injector.

No cores were cut and no wire line fluid samples were taken.

The well was completed on 13 October 1995 as a minor gas discovery and converted to development well 34/10-B-35.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
3675.00	5900.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
1505	HORDALAND GP
1505	NO FORMAL NAME
3383	ROGALAND GP
3383	BALDER FM



3620	LISTA FM
3877	SELE FM
4043	VÅLE FM
4173	SHETLAND GP
4173	UNDIFFERENTIATED
5205	VIKING GP
5205	HEATHER FM
5336	BRENT GP
5336	TARBERT FM
5550	NESS FM
5677	ETIVE FM
5712	RANNOCH FM
5820	BROOM FM
5842	DUNLIN GP
5842	DRAKE FM

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

Document name	Document format	Document size [MB]
2634 34 10 40 S AND 34 10 B 35 COMPLETION REPORT	pdf	9.68

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - DPR	1500	5900

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	32	365.0	36	365.0	0.00	LOT
SURF.COND.	20	1490.0	24	1500.0	1.31	LOT
INTERM.	13 3/8	3661.0	17 1/2	3665.0	1.59	LOT
LINER	7	5871.0	8 1/2	5900.0	1.75	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
365	1.03			WATER BASED	15.08.1995
845	1.17	25.0	12.5	WATER BASED	15.08.1995
1400	1.23	22.0	13.0	WATER BASED	17.08.1995
1495	1.24	20.0	11.5	WATER BASED	17.08.1995
1627	1.27	29.0	19.0	WATER BASED	23.08.1995
1900	1.27	27.0	22.5	WATER BASED	23.08.1995
1901	1.27	28.0	22.0	WATER BASED	25.08.1995
2180	1.27	33.0	19.5	WATER BASED	29.08.1995
2336	1.32	33.0	20.5	WATER BASED	29.08.1995
2374	1.32	32.0	22.5	WATER BASED	29.08.1995
2509	1.35	37.0	26.0	WATER BASED	29.08.1995
2509	1.35	37.0	26.0	WATER BASED	29.08.1995
2509	1.35	38.0	22.0	WATER BASED	01.09.1995
2509	1.35	38.0	22.0	WATER BASED	01.09.1995

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]
2634 Formation pressure (Formasjonstrykk)	pdf	0.23
2634 T2 Formation pressure (Formasjonstrykk)	pdf	0.22

