

**General information**

Wellbore name	34/10-45 S
Type	EXPLORATION
Purpose	WILDCAT
Status	RE-CLASS TO DEV
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	GULLFAKS
Discovery	34/10-45 S
Well name	34/10-45
Seismic location	
Production licence	050
Drilling operator	Statoil ASA (old)
Drill permit	1027-L
Drilling facility	GULLFAKS B
Drilling days	67
Entered date	03.11.2001
Completed date	08.01.2002
Plugged date	08.01.2002
Release date	08.01.2004
Publication date	03.05.2004
Purpose - planned	WILDCAT
Reclassified to wellbore	34/10-B-42 A
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	LATE CRETACEOUS
1st level with HC, formation	NO FORMAL NAME
Kelly bushing elevation [m]	81.0
Water depth [m]	142.5
Total depth (MD) [m RKB]	7594.0
Final vertical depth (TVD) [m RKB]	2317.0
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	4450

Wellbore history

General

Well 34/10-45 S is situated in the Gullfaks area. The primary objectives for the well were to explore a prospect in the Draupne Formation in the western part of fault segment D3 and to be an oil producer from the Tarbert Formation in segment D3 (Gullfaks Vest).

Operations

Wildcat well 34/10-45 S was spudded 3 November 2001 and drilled as a sidetrack of development well 34/10-B-42 from the permanent installation Gullfaks B. The well was drilled to TD at 7594 m (2317,5 m TVD RKB) in the Middle to Late Jurassic Heather Formation. The well 34/10-45 S was drilled from the kick-off point at 2945 m (1726 m TVD RKB) to TD with "Versavert" OBM.

At 6130 m (2080 m TVD RKB) a gas-condensate filled sandstone was encountered. Biostratigraphic dating showed, however, that the sandstones were of Campanian age and not Upper Jurassic age as expected prior to drilling. Subsequently the sandstones are interpreted as Krans Member. The well probably drilled out of the ceiling of the sandstone after some 200 m in westerly direction. The true lateral extension of the sandstone could therefore not be verified. A minor hydrocarbon-filled Cretaceous sandstone-interval was encountered from 7015 m to 7035 m before the well path was dropped after penetrating Base Cretaceous and the Draupne Formation.

The reported reservoir pressures in well bore 34/10-45 S are prognosed initial pressures, as no pressure measurements were performed.

No fluid samples were collected and no coring was performed in the well. Technical problems lead to drilling of a new sidetrack, 34/10-45 A.

Well 34/10-45 S was plugged 08 January 2002 as a gas/condensate discovery.

Testing

No drill stem test was performed

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
223	NORDLAND GP
1910	HORDALAND GP
2394	ROGALAND GP
2394	BALDER FM
2757	LISTA FM
3664	SHETLAND GP



6130	NO FORMAL NAME
7015	NO FORMAL NAME
7035	SHETLAND GP
7486	VIKING GP
7486	DRAUPNE FM
7496	HEATHER FM

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

Document name	Document format	Document size [MB]
4450 34 10 45 S COMPLETION REPORT	.PDF	45.00

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD LWD - DIR TOOL	360	1303
MWD LWD - GR	1303	2922
MWD LWD - GR RES	2922	4063
MWD LWD - GR RES	2945	6281
MWD LWD - GR RES DEN NEU	5660	7594

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	20	360.0	24	360.0	0.00	LOT
INTERM.	13 3/8	1303.0	17 1/2	1303.0	0.00	LOT
INTERM.	9 5/8	2922.0	12 1/4	2922.0	0.00	LOT
LINER	7	7594.0	8 1/2	7594.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
3224	1.60	33.0		VERSAVERT	
3737	1.60	37.0		VERSAVERT	
4228	1.60	30.0		VERSAVERT	





5400	1.60	41.0		VERSAVERT	
5405	1.60	42.0		VERSAVERT	
5421	1.60	45.0		VERSAVERT	
5655	1.60	46.0		VERSAVERT	
5674	1.60	45.0		VERSAVERT	
5707	1.60	44.0		VERSAVERT	
5761	1.60	43.0		VERSAVERT	
5790	1.60	43.0		VERSAVERT	
6281	1.60	39.0		VERSAVERT	
6411	1.60	37.0		VERSAVERT	
6435	1.60	37.0		VERSAVERT	
6435	1.60	37.0		VERSAVERT	
6440	1.60	38.0		VERSAVERT	
6730	1.60	37.0		VERSAVERT	
7034	1.60	46.0		VERSAVERT	
7315	1.60	38.0		VERSAVERT	
7594	1.60	44.0		VERSAVERT	