

**General information**

Wellbore name	34/10-48 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	RE-CLASS TO DEV
Factmaps in new window	link to map
Main area	NORTH SEA
Field	GIMLE
Discovery	34/10-48 S Gimle
Well name	34/10-48
Seismic location	inline 2963- CD 3155-TVD 2750
Production licence	050
Drilling operator	Statoil ASA (old)
Drill permit	1089-L
Drilling facility	GULLFAKS C
Drilling days	55
Entered date	23.12.2004
Completed date	15.02.2005
Release date	15.02.2007
Publication date	28.02.2008
Purpose - planned	APPRAISAL
Reclassified to wellbore	34/10-C-46
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	INTRA HEATHER FM SS
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	BRENT GP
Kelly bushing elevation [m]	84.1
Water depth [m]	217.0
Total depth (MD) [m RKB]	5878.0
Final vertical depth (TVD) [m RKB]	2876.0
Maximum inclination [°]	103
Bottom hole temperature [°C]	109
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	NESS FM
Geodetic datum	ED50
NS degrees	61° 12' 53.78" N



EW degrees	2° 16' 27.79" E
NS UTM [m]	6787106.31
EW UTM [m]	461018.63
UTM zone	31
NPDID wellbore	5046

Wellbore history

General

Well 34/10-48 A was drilled on the Gullfaks Field in the Northern North Sea, from the Gullfaks C platform. The main exploration objective of the well was to test the hydrocarbon potential of the Brent Group in the Topas prospect, same as for the primary well 34/1-48 S. The well should be completed as a producer. The preliminary results of the well 34/10-48 S indicated however that the well path had penetrated low on the Topas structure, which was not ideal for production. It was therefore decided to drill the sidetrack 34/10-48 A and aim as high on the re-interpreted structure as possible.

Operations and results

Sidetrack well 34/10-48 A was spudded from a preset 32" conductor at slot 29 on the Gullfaks C platform on 17 March 2004. It was kicked off from 48 S at 5120 m and inclination was increased to 103 deg in order to avoid the OWC found in 48 S. The well path was lifted approximately 100 m TVD on the most compared to 48 S. The well was drilled with Versavert oil based mud from kick-off to TD

The well 34/10-48 A drilled through hydrocarbon filled sands of both Tarbert and Ness Formations before entering the Late Jurassic sequence. The well bore was abandoned at a TD of 6221 m /2870 m TVD in the Viking Group before re-entering the Topas structure in the north. This was due to severe hole problems after a bit trip to change a failed drilling assembly. An open hole sidetrack (34/10-48 AT2) was performed with kick-off in the Ness Formation at 5608 m. This track was drilled to final TD at 5878 m / 2846 m TVD RKB in the Late Jurassic sequence. The last 50 m of well 34/10-

48 AT2 drilled through intra Heather sandstones with apparently good reservoir quality and hydrocarbon saturation.

No cores were cut and no fluid samples were collected in 34/10-48 A.

The final sidetrack, 34/10-48 AT2 was completed with one manual sleeve in Lunde, three diacs sleeves in Brent and finally another manual sleeve in the Late Jurassic interval. The well is classified as an oil appraisal. Well operations were completed on 15 February 2005 and the well was handed over to production on 22 February 2005 and re-named 34/10-C-46.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
5120.00	6220.00



Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
301	NORDLAND GP
1102	UTSIRA FM
1122	HORDALAND GP
2357	ROGALAND GP
2357	BALDER FM
2528	LISTA FM
2851	SHETLAND GP
3612	CROMER KNOLL GP
3657	HEGRE GP
3657	LUNDE FM
4645	DUNLIN GP
4645	DRAKE FM
4891	COOK FM
5008	VIKING GP
5008	HEATHER FM
5158	BRENT GP
5158	TARBERT FM
5460	NESS FM
5461	TARBERT FM
5611	VIKING GP
5611	HEATHER FM
5988	SHETLAND GP
6067	CROMER KNOLL GP
6136	VIKING GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
ARC6 ADN6	5608	5878
LWD - ARC6 ADN6	5850	6221
LWD - ARC6 ADN6 TST6	5106	5850

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
4430	1.61			VERSAVERT 41	
4438	1.61	41.0		VERSAVERT 41	
5430	1.57	36.0		VERSAVERT 41	
5600	1.59	36.0		VERSAVERT 41	
6221	1.61	37.0		VERSAVERT 41	

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]
5046 Formation pressure (Formasjonstrykk)	pdf	0.21

