Generell informasjon

Brønnbane navn	34/10-46 B
Type	EXPLORATION
Formål	APPRAISAL
Status	RE-CLASS TO DEV
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GULLFAKS
Funn	34/10-46 A
Brønn navn	34/10-46
Seismisk lokalisering	
Utvinningstillatelse	050
Boreoperatør	Statoil ASA (old)
Boretillatelse	1035-L
Boreinnretning	GULLFAKS A
Boredager	37
Borestart	17.03.2002
Boreslutt	22.05.2002
Frigitt dato	22.05.2004
Publiseringsdato	12.05.2004
Opprinnelig formål	APPRAISAL
Reklassifisert til brønnbane	34/10-A-48 B
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	82.2
Vanndybde ved midlere havflate [m]	134.0
Totalt målt dybde (MD) [m RKB]	7725.0
Totalt vertikalt dybde (TVD) [m RKB]	2088.0
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	TARBERT FM
Geodetisk datum	ED50
NS grader	61° 10' 33.86'' N
ØV grader	2° 11' 23.22'' E
NS UTM [m]	6782830.47
ØV UTM [m]	456420.11
UTM sone	31
NPDID for brønnbanen	4527

Brønnhistorie

General

Well 34/10-46 B was drilled to a structure 5 km southwest of the Gullfaks field. Running the liner in well 34/10-46 A failed due to restrictions in the hole and well 34/10-46 B had to be drilled. The primary objectives of the well were to be a water injector in Tarbert Formation in segment D1 and to be a drain point in the top reservoir for oil and gas from Krans Member (Kyrre Formation)/Brent Group in segment D1. The secondary objective was to explore a Cretaceous prospect west of wildcat well 34/10-12.

Operations

The appraisal well 34/10-46 B was spudded on 17 March 2002 from the permanent installation Gullfaks A and drilled to TD at 7725 m (2088 m TVD RKB) into the late Jurassic Viking Group. The well was drilled with OBM to TD.

It was not possible to sidetrack well 34/10-46 B before 6380 m (2017 m TVD RKB). In well 34/10-46 S/46 A/46 B the Brent Group in segment E1 and the Statfjord Formation in segment D1 were reached by the 12 1/4" section. The path of well 34/10-46 B was partly governed by well inclination restrictions in the uppermost part, and by the location of a new Cretaceous sandstone target to the west. The formation changes due to drilling into the Shetland Group, is likely to be the reason for the improper hole quality. The well proved oil down to 1993 m TVD MSL and an oil-leg of at least 5 m in the Brent Group. This oil is interpreted as an appraisal of the oil and gas from Krans Member (Kyrre Formation)/Brent Group in segment D1 in 34/10-46 A. The Brent oil is thus seen as the lower part of a 70 m hydrocarbon column on the structure. Due to a work-over operation on another Gullfaks well, the 8 1/2" section in well 46 B was temporary abandoned after the installation of the 7" liner. A 13 3/8" RTTS was set before the rig was skidded.

The extention of the well 34/10-46 B was drilled to reach a Cretaceous prospect some 1500 m to the west of the crest of segment D1. No Cretaceous sandstone was found.

The reported reservoir pressures in wellbore 46 B are prognosed initial pressures, as no pressure measurements were performed in these well tracks. No fluid samples were collected and no coring was preformed in the well.

The well 34/10-46 B was completed on 27 May 2002 and re-classed to development well 34/10-A 48 B.

Testing

No drill stem test was performed. The well was perforated in the water sone as water injector 34/10-A-48 B.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
6360.00	7725.00

Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
216	NORDLAND GP
1728	HORDALAND GP
2230	ROGALAND GP
2230	BALDER FM
2530	LISTA FM
3251	SHETLAND GP
6344	NO FORMAL NAME
6394	NO FORMAL NAME
6522	BRENT GP
6522	TARBERT FM
6592	SHETLAND GP
7074	VIKING GP
7074	HEATHER FM
7206	SHETLAND GP

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - ARC AND	7023	7725
MWD LWD - GR RES DEN NEU	6380	7089

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
LINER	7	7725.0	8 1/2	7725.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1067	1.50	39.0		VERSAVERT	
6566	1.50	32.0		VERSAVERT	
6905	1.50	34.0		VERSAVERT	
7012	1.61	41.0		VERSAVERT	
7025	1.55	40.0		VERSAVERT	

7033	1.55	39.0		VERSAVERT	
7066	1.55	40.0		VERSAVERT	
7067	1.50	35.0		VERSAVERT	
7069	1.55	39.0		VERSAVERT	
7540	1.61	38.0		VERSAVERT	
7725	1.61	39.0		VERSAVERT	