



Generell informasjon

Brønnbane navn	34/3-1 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	KNARR
Funn	34/3-1 S Knarr
Brønn navn	34/3-1
Seismisk lokalisering	inline 5174 & crossline 3090
Utvinningstillatelse	373 S
Boreoperatør	BG Norge AS
Boretillatelse	1196-L
Boreinnretning	BREDFORD DOLPHIN
Boredager	51
Borestart	10.09.2008
Boreslutt	30.10.2008
Frigitt dato	30.10.2010
Publiseringsdato	23.12.2010
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	COOK FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	410.0
Totalt målt dybde (MD) [m RKB]	4162.0
Totalt vertikalt dybde (TVD) [m RKB]	3999.0
Maks inklinasjon [°]	41.2
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	AMUNDSEN FM
Geodetisk datum	ED50
NS grader	61° 48' 46.49" N
ØV grader	2° 46' 47.16" E



NS UTM [m]	6853522.80
ØV UTM [m]	488393.54
UTM sone	31
NPDID for brønnbanen	5921

Brønnhistorie

General

Well 34/3-1 A was drilled on the Jordbær structure on the Tampen Spur on the Norwegian Continental Shelf. The primary well 34/3-1 S encountered an oil-down-to situation in the Cook Formation before reaching TD in the Statfjord Formation at 4081 m TVD RKB. The down flank sidetrack 34/3-1 A was carried out in order to define the oil-water contact and to prove economic reserves.

Operations and results

Appraisal well 34/3-1 A was kicked off on 10 September 2008 at the 13 3/8" casing shoe at 2203 m in the primary well. The well was drilled with the semi-submersible installation Bredford Dolphin to TD at 4162 m (3999 m TVD) in the Early Jurassic Amundsen Formation. At 3670 m the mud weight was increased to 1.77 sg resulting in total losses of the mud return. After cutting back the mud weight 1.67 sg full returns were regained. The well was drilled with XP-07 LT oil based mud from kick-off to TD.

The Cook Formation was encountered at 3954 m (3833 m TVD). From pressure gradient evaluation the oil-water contact was set at ca 4018 m (3886 m TVD).

No cores were cut in the side track. MDT fluid samples were taken in the Cook Formation. Oil samples were collected at 3955.9 m, 3964.9 m, and at 3993.7 m, while water samples were collected at 4013.5 m. The mud contamination in the oil samples varied from 1% to 16%.

The well was permanently abandoned on 30 October 2008 as an oil appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2220.00	4162.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
436	NORDLAND GP
1421	UTSIRA FM
1464	NO FORMAL NAME
1494	HORDALAND GP
2002	ROGALAND GP
2002	BALDER FM
2030	SELE FM
2050	LISTA FM
2141	SHETLAND GP
2141	JORSALFARE FM
2315	KYRRE FM
3450	TRYGGVASON FM
3776	CROMER KNOLL GP
3776	MIME FM
3782	DUNLIN GP
3782	DRAKE FM
3954	COOK FM
4067	BURTON FM
4131	AMUNDSEN FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
5921	pdf	0.48

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5921_01_34_3_1A_gch_transfer_1	txt	0.00
5921_02_34_3_1A_gch_results_1	txt	0.05

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
ADR PWD DGR DDS SGR ALD CTN	3780	4162
GEOTAP BAT MRIL	3780	4162
MDT PA-PQ GR	3955	4013
MSCT	3788	4078
VSI	850	4150

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
INTERM.	13 3/8	2203.0	17 1/2	2210.0	2.18	LOT
INTERM.	9 5/8	3774.0	12 1/4	3780.0	2.05	LOT
OPEN HOLE		4162.0	8 1/2	4162.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2089	1.41	23.0		KCL/Polymer	
2187	1.70	30.0		XP-07	
2515	1.70	26.0		XP-07	
3112	1.70	30.0		XP-07	
3550	1.70	27.0		XP-07	
3591	1.41	23.0		Water based	
3670	1.70	25.0		XP-07	
3780	1.66	26.0		XP-07	
3833	1.87	36.0		XP-07	
4162	1.66	28.0		XP-07	
4162	1.87	40.0		XP-07	