Generell informasjon

Brønnbane navn	34/5-1 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	34/5-1 S
Brønn navn	34/5-1
Seismisk lokalisering	inline 4451 & xline 2305 at top Cook
Utvinningstillatelse	374 S
Boreoperatør	BG Norge AS
Boretillatelse	1305-L
Boreinnretning	BREDFORD DOLPHIN
Boredager	26
Borestart	16.03.2010
Boreslutt	10.04.2010
Frigitt dato	10.04.2012
Publiseringsdato	10.04.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	387.0
Totalt målt dybde (MD) [m RKB]	4416.0
Totalt vertikalt dybde (TVD) [m RKB]	3731.0
Maks inklinasjon [°]	55.8
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	BURTON FM
Geodetisk datum	ED50
NS grader	61° 44' 35.19'' N
ØV grader	2° 35' 55.37'' E
NS UTM [m]	6845792.02
ØV UTM [m]	478803.99
UTM sone	31
NPDID for brønnbanen	6352

Brønnhistorie

General

The 34/5-1 A exploration sidetrack was planned to test an eastern segment of the Blåbær prospect in Tampen North, ca 9 km to the southwest of the 34/3-1 S Jordbær discovery. The primary well bore 34/5-1 S well proved a hydrocarbon bearing column within the Cook Formation in 64 m TVD of interbedded sandstones and siltstones, and the Cook Formation was the target for the sidetrack as well.

Operations and results

Appraisal well 34/5-1 A was drilled with the semi-submersible installation Bredford Dolphin. It was kicked off on 16 March 2010, at 2137 m from primary well 34/5-1 S and drilled to TD at 4416 m (3731 m TVD) in the Early Jurassic Burton Formation. No significant problems were encountered in the operations. The well was drilled with XP-07 oil based mud from kick-off to TD.

Top Cook Formation (Late Pliensbachian) reservoir came in 27.6 m shallower than the prediction at 4274 m (3602 m TVD). The Cook Formation sandstones had an average porosity of 18.3% and 20 m of net sand based on 50% Vsh cut-and 10% porosity cut-off. As in 34/5-1 S the Upper and Lower Cook had markedly different reservoir properties. Generally the reservoir properties of the 34/5-1 A were worse than the well 34/5-1 S in both units. A very weak residual(?) show was observed in a sandstone sample at 4275 m. Otherwise, no hydrocarbon shows were observed in the well. Mudstone in the lower part of the Drake Formation showed source rock properties with elevated gamma ray above 150 deg API, TOC around 2 %wt, and average Hydrogen Index around 300 with peak HI up to 450 mg HC/g TOC.

Due to dry well no cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 10 April 2010 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2160.00	4416.00

Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
412	NORDLAND GP
1333	UTSIRA FM
1435	NO FORMAL NAME

1450	HORDALAND GP
1561	NO FORMAL NAME
1568	NO FORMAL NAME
1890	ROGALAND GP
1890	BALDER FM
1922	LISTA FM
2010	SHETLAND GP
2010	JORSALFARE FM
2241	KYRRE FM
3802	TRYGGVASON FM
4070	CROMER KNOLL GP
4070	MIME FM
4082	VIKING GP
4082	HEATHER FM
4129	NO GROUP DEFINED
4152	DUNLIN GP
4152	DRAKE FM
4274	COOK FM
4356	BURTON FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
6352_01_34_5_1S&A_gch_transfer_1	txt	0.00
6352_02_34_5_1S&A_gch_results_1	txt	0.32

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - ALD CTN MILF FTWD BAT	4231	4234
LWD - ALD CTN MILF FTWD BAT	4234	4416
LWD - EWR BAT ALD ALDPINGER CTN	2137	4231
LWD - GABI DIR EWR DGR PWD	4234	4416
LWD - GABI DIR EWR DGRPWD	4231	4234
LWD - GABI DIR PWD AGR DDSM5 -	2137	4231
MSCT	4230	4354
VSI-4	2005	4409

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	2125.0	17 1/2	2135.0	0.00	LOT
INTERM.	9 5/8	4221.0	12 1/4	4231.0	0.00	LOT
OPEN HOLE		4416.0	8 1/2	4416.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2050	1.60	30.0		XP-07	
2156	1.39	18.0		XP-07	
2272	1.60	30.0		XP-07	
2529	1.39	21.0		XP-07	
2805	1.50	26.0		XP-07	
3972	1.60	31.0		XP-07	
4098	1.60	25.0		XP-07	
4220	1.85	32.0		XP-07	
4231	1.60	31.0		XP-07	
4257	1.85	38.0		XP-07	
4416	1.85	39.0		XP-07	