



Generell informasjon

Brønnbane navn	17/12-4 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	17/12-1 Vette
Brønn navn	17/12-4
Seismisk lokalisering	Bream 3D-inline 1504 & crossline 3822
Utvinningstillatelse	407
Boreoperatør	BG Norge AS
Boretillatelse	1264-L
Boreinnretning	WEST ALPHA
Boredager	37
Borestart	10.07.2009
Boreslutt	15.08.2009
Frigitt dato	15.08.2011
Publiseringsdato	15.08.2011
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRYNE FM
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	110.0
Totalt målt dybde (MD) [m RKB]	3338.0
Totalt vertikalt dybde (TVD) [m RKB]	2319.0
Maks inklinasjon [°]	92
Temperatur ved bunn av brønnbanen [°C]	84
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	BRYNE FM
Geodetisk datum	ED50
NS grader	58° 10' 37.58" N



ØV grader	3° 55' 11.05" E
NS UTM [m]	6448944.03
ØV UTM [m]	554097.84
UTM sone	31
NPDID for brønnbanen	6178

Brønnhistorie

General

Well 17/12-4 A was drilled as a geologic sidetrack to 17/12-4 on the Bream structure in the north-western part of the Egersund Basin of the North Sea. The principle objective of the well was to identify if the Bream prospect contained hydrocarbons in the Sandnes / Bryne formation, and ascertain commercial flow rates from a horizontal well in order to make decisions regarding a future development of the Bream Discovery.

Operations and results

Well 17/12-4 A was sidetracked on 10 July 2009 from below the 13 3/8" shoe at ca 1202 m in well 17/12-4. The well was drilled as a horizontal appraisal well with the semi-submersible installation West Alpha to TD at 3338 m (2319 m TVD) in the Middle Jurassic Bryne Formation. Deviation was at maximum 92 deg at TD. The well was drilled without significant technical problems, but it was not possible to get the liner to the toe of the well, only reaching 2795 m. This may have been partly due to not having the correct reamer shoe on board when picking up the liner. The sidetrack was drilled with Versatec DW oil based mud all through.

The Sandnes Formation came in at 2606 m (2286.7 m TVD) and confirmed a water-wet good reservoir sand within this Formation, as in the primary well. The Bryne Formation came in at 2666.6 m (2305.3 m TVD) and was drilled near-horizontally all through to TD, without penetrating below the main OWC found in the primary well. The Bryne Formation consists of several sand bodies and thin sands with interbedded mudstones and with coal layers in the upper part. Average porosities for the different reservoir units ranged from 17% to 22%. All sands were oil-bearing.

No cores were cut in the well. The well was logged while drilling. No wire line logs were run.

The well bore was plugged back for a second sidetrack and was permanently abandoned on 15 August 2009 as an oil appraisal well.

Testing

One drill stem test was performed. The Bryne reservoir was perforated underbalanced at 2694 - 2760 m (2313.4 ? 2324 m TVD). The well was opened on a 20/64" fixed choke for a sample flow period, well parameters allowed to stabilise and three sets of surface PVT samples and four bottom hole samples taken. On completion of sampling the well was beaned up to a 32/64" fixed choke size for 30 hrs with flow rates stabilising at 290 Sm³ oil and 11500 Sm³ gas/day. The stabilised GOR was 40 Sm³/Sm³. The CO₂ and H₂S levels were nil. The maximum temperature recorded in the main flow was 84 deg C.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1230.00	3336.00

Borekaks tilgjengelig for prøvetaking?	YES
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Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		0.00	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
128	NORDLAND GP
486	HORDALAND GP
744	ROGALAND GP
744	BALDER FM
773	VÅLE FM
780	SHETLAND GP
780	EKOFISK FM
799	TOR FM
984	HOD FM
1208	BLODØKS FM
1216	CROMER KNOLL GP
1216	RØDBY FM
1337	ÅSGARD FM
2142	BOKNFJORD GP
2142	FLEKKEFJORD FM
2175	SAUDA FM
2358	TAU FM
2438	EGERSUND FM
2606	VESTLAND GP
2667	BRYNE FM

Borestrengtester (DST)



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 13.5.2024 - 05:19

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	2694	2760	12.5

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	24.000		16.000	84

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	400	11500			

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - ECOSCOPE	2579	3338
LWD - GR RES	1225	2579

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.	9 5/8	2571.0	12 1/4	2579.0	0.00	LOT
LINER	7	2795.0	8 1/2	3338.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2795	1.20			wvjobreportmudch k.mudtyp	
3338	1.31	28.0		Versamud	
3338	1.20			wvjobreportmudch k.mudtyp	
3338	1.31	26.0		Versamud	

