



Generell informasjon

Brønnbane navn	24/9-9 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BØYLA
Funn	24/9-9 S Bøyla
Brønn navn	24/9-9
Seismisk lokalisering	MN DG 043 & 032 A
Utvinningstillatelse	340
Boreoperatør	Marathon Petroleum Norge AS
Boretillatelse	1281-L
Boreinnretning	SONGA DEE
Boredager	9
Borestart	07.10.2009
Boreslutt	15.10.2009
Frigitt dato	15.10.2011
Publiseringsdato	15.10.2011
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HERMOD FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	120.0
Totalt målt dybde (MD) [m RKB]	2981.0
Totalt vertikalt dybde (TVD) [m RKB]	2135.0
Maks inklinasjon [°]	64.2
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	SELE FM
Geodetisk datum	ED50
NS grader	59° 19' 40.49" N
ØV grader	1° 50' 17.27" E



NS UTM [m]	6577295.29
ØV UTM [m]	433882.57
UTM sone	31
NPDID for brønnbanen	6239

Brønnhistorie

General

Well 24/9-9 A was drilled to appraise the oil discovery on the Marihøne A prospect made by 24/9-9 S in the Vana Sub-basin ca 6 km east of the UK border in the North Sea. The objective was to test the A2 segment in Hermod sands 1.5 km south-east of 24/9-9 S.

Operations and results

Appraisal well 24/9-9 A was drilled with the semi-submersible installation Songa Dee. It was kicked off from near vertical at 1035 m in well 24/9-9 S on 7 October 2009. Angle was built in Hordaland claystones and the Grid sands, until the Balder and Sele claystones were drilled with 64deg inclination without any indication of hole stability problem or deviation from the prognosed pore pressure. TD was set at 2981 m in the Paleocene Sele Formation. The well was drilled with Versatec oil based mud from kick-off to TD.

The main reservoir sand of the Hermod Formation was encountered at 2872 m (2052 m TVD MSL). It was oil bearing with a 21.3 m TVD oil leg down to an OWC at 2916 m (2073.4 m TVD MSL). The OWC was picked from MWD logs and was confirmed by pressure gradients. Average porosity of the oil bearing zone was 30% with an average Sw of 23%. The gross thickness of the Hermod reservoir was 23.6 m TVD. The oil based mud used produced a background weak dull yellow direct fluorescence and faint cut fluorescence, which effectively masked any mineral oil show. Additionally the solvent properties of the mud, combined with the structure destroying effect of the PDC bits and the flushing effect due to the overbalanced mud weight may have removed virtually all trace of shows from disaggregated sand grains and minimised or removed shows from sandstone aggregates.

No cores were cut in 24/9-9 A. No wire line logs were run and no fluid samples taken. Formation pressure tests were made using the Schlumberger Stethoscope tool on MWD.

The well was plugged back for a second sidetrack on 15 October 2009. It is classified as an oil appraisal well.

Testing

No drill stem test was performed.

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
145	NORDLAND GP
403	UTSIRA FM
934	NO FORMAL NAME



1124	HORDALAND GP
1124	GRID FM
1420	NO FORMAL NAME
2628	ROGALAND GP
2628	BALDER FM
2785	SELE FM
2861	HERMOD FM
2921	SELE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - DI DONIC STETH PRESS	1015	2980
MWD - NBGR GR RES POR DEN PWD...	1015	2980

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
CONDUCTOR	30	192.0	36	194.0	0.00	LOT
SURF.COND.	13 3/8	1022.0	17 1/2	1033.0	1.55	LOT
OPEN HOLE		2981.0	9 1/2	2981.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2731	1.40	45.0		wvjobreportmudch k.com	
2981	1.40	39.0		wvjobreportmudch k.com	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.





Dokument navn	Dokument format	Dokument størrelse [KB]
6239 Formation pressure (Formasjonstrykk)	pdf	0.22

