



Generell informasjon

Brønnbane navn	1/3-10 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	OSELVAR
Funn	1/3-6 Oselvar
Brønn navn	1/3-10
Seismisk lokalisering	BPN 9202 R02 3D dataset inline 904 & crossline 3018
Utvinningstillatelse	274
Boreoperatør	DONG E&P Norge AS
Boretillatelse	1168-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	38
Borestart	07.01.2008
Boreslutt	13.02.2008
Frigitt dato	13.02.2010
Publiseringsdato	13.02.2010
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	FORTIES FM
Avstand, boredekk - midlere havflate [m]	45.0
Vanndybde ved midlere havflate [m]	72.0
Totalt målt dybde (MD) [m RKB]	3632.0
Totalt vertikalt dybde (TVD) [m RKB]	3335.0
Maks inklinasjon [°]	53.8
Temperatur ved bunn av brønnbanen [°C]	145
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	SELE FM



Geodetisk datum	ED50
NS grader	56° 55' 39.86" N
ØV grader	2° 42' 20.69" E
NS UTM [m]	6309521.94
ØV UTM [m]	482089.29
UTM sone	31
NPDID for brønnbanen	5779

Brønnhistorie

General

Well 1/3-10 A is located on the Hydra High, ca 20 km south-south west of the Ula Field in the North Sea. It was drilled to further appraise the Forties Formation Sandstone in the Oselvar structure, after the primary well 1/3-10 had confirmed oil and gas in the structure. The main goal of the sidetrack well was to penetrate the water leg for water sampling and establish the free water level in the structure.

Operations and results

The Oselvar 1/3-10 A appraisal sidetrack kicked off in the claystones of the Hordaland Group at 2276 m on 7 January 2008. It was drilled with the jack-up installation Mærsk Guardian to final TD at 3632 m in the lower part of the Sele Formation below the target Forties Sandstone. The well was drilled without significant technical problems. It was drilled with Carbo SEA OBM from kick-off to TD.

The well track penetrated the remaining Hordaland claystone, and the claystones, tuffaceous claystones and sandstones of the Rogaland Group (Paleocene-Eocene), which included the Balder Formation, the Sele Formation, and the target Forties Sandstone Member. The top of the Balder Formation came in only 1 m TVD shallow compared to prognosis, the Sele Formation came in deep (10 m TVD) compared to prognosis. The Forties Sandstone came in at 3516 m (3257 m TVD RKB), 11 m TVD compared to prognosis. The log data confirmed that the well had penetrated the water leg of the reservoir as expected, and indicated 64 m MD (43 m TVD) gross reservoir and a net reservoir of 37 m MD (25 m TVD), giving a Net/Gross of 0.58. The net reservoir, all of which is considered to be non-pay, has an average porosity of 18 % and mobilities in the range 1-13 mD/cP. Pressure measurements indicated a free water level at 3245 m TVD RKB.

From petrophysical evaluation the water bearing reservoir was found to contain residual hydrocarbons. The only oil show in the well was a weak oil stain at 3525 m (3263 m TVD RKB) in the Forties Formation.

No cores were cut in 1/3-10 A. An RCI log was run for pressure and fluid sampling. Water samples were taken at 3556 m, 3572 m, and 3536.75 m.

The well was permanently abandoned on 13 January 2008 as an oil and gas appraisal well.

Testing

No DST was carried out



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2310.00	3631.80

Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
117	NORDLAND GP
1685	HORDALAND GP
3320	ROGALAND GP
3320	BALDER FM
3348	SELE FM
3516	FORTIES FM
3580	SELE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL	2145	3569
MWD LWD - ...PCDC BAT	2283	3126
MWD LWD - ...PCDC BAT	3126	3632
MWD LWD - EWR DGR PWD ALD CTN...	3126	3632
MWD LWD - PWD DGR EWR ALD CTN...	2282	3126
RCI	3495	3577
ZDL DSL	2193	3616

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
OPEN HOLE		2276.0	8 1/2	3632.0	1.90	LOT

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]
5779 Formation pressure (Formasjonstrykk)	pdf	0.22

