



Generell informasjon





Brønnbane navn	3/4-2 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	3/4-2
Seismisk lokalisering	dno 0601 R08 xline 1310 & inline 1182
Utvinningstillatelse	356
Boreoperatør	Det norske oljeselskap ASA
Boretillatelse	1364-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	45
Borestart	18.07.2012
Boreslutt	31.08.2012
Frigitt dato	10.08.2013
Publiseringsdato	10.08.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	45.5
Vanndybde ved midlere havflate [m]	51.0
Totalt målt dybde (MD) [m RKB]	2961.0
Totalt vertikalt dybde (TVD) [m RKB]	2864.6
Maks inklinasjon [°]	28.6
Temperatur ved bunn av brønnbanen [°C]	104
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	FARSUND FM
Geodetisk datum	ED50
NS grader	56° 38' 47.24" N
ØV grader	4° 5' 38.18" E
NS UTM [m]	6278707.02
ØV UTM [m]	567085.05
UTM sone	31
NPDID for brønnbanen	6622



Brønnhistorie

General

Well 3/4-2 S was drilled on the Ulvetanna prospect in the Søgne Basin in the southern North Sea. The prospect was a salt-induced closure at Late Cretaceous level. The objective of exploration well 3/4-2 S Ulvetanna was to test the hydrocarbon potential of the Paleocene Ekofisk Formation and Cretaceous Tor and Hod Formations, in addition to investigate the maturity level of the potential Mandal Formation source rock.

Operations and results

Wildcat well 3/4-2 S was spudded with the jack-up installation Mærsk Guardian on 18 July 2012 and drilled to TD at 2916 m (2864 m TVD) in the Late Jurassic Farsund Formation. The well was drilled deviated in order to penetrate the steeply dipping potential reservoir levels in a best possible angle and direction. The well was drilled with spud mud down to 1262 m and with Performadril WBM from 1262 m to 2962 m.

The Shetland Group Ekofisk Formation was penetrated at 2638 m (2559 m TVD), the primary reservoir level Tor Formation was observed at 2700 m (2614 m TVD), while the potential secondary target Hod Formation was found at 2769 m (2677 m TVD). Both targets were found to be water bearing. Top Mandal Formation was encountered at 2911 m (2815 m TVD). It was 9 m thick with very high gamma ray. Geochemical analyses of sidewall cores indicated a very good oil-prone source rock (TOC = 5 - 7 %wt; Hydrogen Index = 540 to 600 mg HC/g TOC). Tmax and vitrinite reflectance analyses show that the Mandal Formation has not yet entered the oil window in the well location. The well also penetrated a section of the underlying Farsund Formation (base not seen). Side wall cores indicated oil-prone quality here as well, but not as good as in the Mandal Formation.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 31 August 2012 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
180.00	2961.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
97	NORDLAND GP
1348	HORDALAND GP
2525	ROGALAND GP
2525	BALDER FM
2538	SELE FM
2579	LISTA FM
2600	VÅLE FM
2638	SHETLAND GP
2638	EKOFISK FM
2700	TOR FM
2769	HOD FM
2906	CROMER KNOLL GP
2906	ÅSGARD FM
2911	TYNE GP
2911	MANDAL FM
2920	FARSUND FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD LWD - QBAT PWD DGREWR-	2618	2961
MWD LWD - ABG GR EWR PWD BAT	1259	2618
MWD LWD - ALD CTN ADR AFR	2618	2961
MWD LWD - DIR PWD	193	1262
MWD LWD - QBAT PWD DGR EWR DIR	193	1262
RSCT GR	2911	2956

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	178.0	36	178.0	0.00	LOT
SURF.COND.	13 3/8	1251.0	17 1/2	1262.0	1.87	LOT
PILOT HOLE		1262.0	12 1/4	1262.0	0.00	LOT



INTERM.	9 5/8	2613.0	12 1/4	2618.0	0.00	LOT
OPEN HOLE		2961.0	8 1/2	2961.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
218	1.05	14.0		spud mud	
798	1.05	4.0		spud mud	
1240	1.09	4.0		spud mud	
1260	1.19	14.0		WBM	
1262	1.19	14.0		Displacement mud	
1262	1.09	4.0		spud mud	
1287	1.41	25.0		ENVIROMUL	
1686	1.54	23.0		OBM	
1922	1.61	63.0		Performdril WBM	
2618	1.62	28.0		OBM	
2918	1.61	56.0		Performadril WBM	
2961	1.61	63.0		Performadril WBM	