



Generell informasjon





Brønnbane navn	31/3-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	31/3-4
Seismisk lokalisering	Survey NH9401WIM11:IL3673 & XL4904
Utvinningstillatelse	551
Boreoperatør	Tullow Oil Norge AS
Boretillatelse	1452-L
Boreinnretning	TRANSOCEAN BARENTS
Boredager	44
Borestart	22.11.2013
Boreslutt	05.01.2014
Frigitt dato	05.01.2016
Publiseringsdato	05.01.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	348.0
Totalt målt dybde (MD) [m RKB]	2122.0
Totalt vertikalt dybde (TVD) [m RKB]	2122.0
Maks inklinasjon [°]	1.7
Temperatur ved bunn av brønnbanen [°C]	80
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	ETIVE FM
Geodetisk datum	ED50
NS grader	60° 57' 51.3" N
ØV grader	3° 41' 16.85" E
NS UTM [m]	6759161.09
ØV UTM [m]	537255.02
UTM sone	31
NPDID for brønnbanen	7292



Brønnhistorie

General

Well 31/3-4 was drilled to test the Mantra prospect, ca 2 km northeast of the northern end of the Troll Field in the North Sea. The primary objective was to test Late Jurassic sandstones of the Sognefjord, Fensfjord and Krossfjord formations, secondary to test the Middle Jurassic Brent Group, tertiary to test injectite sands in the Paleocene.

Operations and results

Wildcat well 31/3-4 was spudded with the semi-submersible installation Transocean Barents on 22 November 2013 and drilled to TD at 2122 m in the Middle Jurassic Eivie Formation. The 9 7/8" pilot hole did not encounter any boulders or shallow gas. Due to severe mud losses in Ness Formation coal beds, the well did not fulfil the objective to drill through the complete Brent section, but all target reservoir levels were tested by the well. The well was drilled with seawater and bentonite sweeps down to 747 m, and with Glydril mud from 747 m to TD.

Reservoirs with good to excellent quality were found in Paleocene Lista Formation, Sognefjord Formation, Krossfjord Formation, and Fensfjord Formation and in the Brent Group. All target reservoirs were dry. Only very weak shows were described on a junk basket core from undifferentiated intra-Lista Formation sandstone at 1353 m, and on cuttings from the Sognefjord and Fensfjord formations.

A junk basket core was recovered from 1353 to 1353.4 m. No fluid sample was taken.

The well was permanently abandoned on 5 January 2014 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sökkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
760.00	2121.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sökkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1353.0	1353.4	[m]

Total kjerneprøve lengde [m]	0.4
Kjerner tilgjengelig for prøvetaking?	YES



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
388	NORDLAND GP
388	UNDIFFERENTIATED
601	UTSIRA FM
652	NO FORMAL NAME
1096	ROGALAND GP
1096	BALDER FM
1148	SELE FM
1213	LISTA FM
1330	UNDIFFERENTIATED
1398	LISTA FM
1416	SHETLAND GP
1416	HARDRÅDE FM
1502	KYRRE FM
1545	TRYGGVASON FM
1592	SVARTE FM
1617	CROMER KNOLL GP
1617	RØDBY FM
1635	VIKING GP
1635	DRAUPNE FM
1658	SOGNEFJORD FM
1669	HEATHER FM
1850	FENSFJORD FM
1996	KROSSFJORD FM
2010	HEATHER FM
2064	BRENT GP
2064	NESS FM
2114	ETIVE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD-DI	387	750
LWD-DI ECD RES GR SON	750	1294
LWD-DI GR ECD	450	747



LWD-DI NEU DEN GVR SON	1294	2122
MSIP FMI	1288	2050
PEX HRLA XPT	0	0

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	446.8	36	450.5	0.00	
SURF.COND.	20	742.2	26	747.0	0.00	
INTERM.	9 5/8	1288.0	12 1/4	1294.0	0.00	
OPEN HOLE		2122.0	8 1/2	2122.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
485	1.04	50.0		Spud mud	
787	1.39	17.0		Glydril	
1172	1.29	19.0		Glydril WBM	
1294	1.29	20.0		Glydril WBM	
1354	1.29	17.0		Glydril WBM	
1716	1.29	17.0		Glydril WBM	
2122	1.29	19.0		Glydril WBM	