



Generell informasjon

Brønnbane navn	33/2-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	33/2-1
Seismisk lokalisering	STO503:inline 2627 & crossline2010
Utvinningstillatelse	555
Boreoperatør	Lundin Norway AS
Boretillatelse	1497-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	81
Borestart	07.10.2014
Boreslutt	26.12.2014
Plugget og forlatt dato	26.12.2014
Frigitt dato	26.12.2016
Publiseringsdato	26.12.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	381.0
Totalt målt dybde (MD) [m RKB]	4459.0
Totalt vertikalt dybde (TVD) [m RKB]	4457.0
Maks inklinasjon [°]	4.5
Temperatur ved bunn av brønnbanen [°C]	156
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 59' 30.66" N
ØV grader	1° 32' 42.49" E
NS UTM [m]	6874291.84
ØV UTM [m]	423778.56



UTM sone	31
NPDID for brønnbanen	7391

Brønnhistorie

General

Well 33/2-1 was drilled to test the Storm prospect on the Manet Ridge in the northern North Sea. The well is located ca 4.5 km south of the 6201/11-1 discovery well. The primary objective of 33/2-1 was to test the reservoir properties and hydrocarbon potential of Late Jurassic Draupne sandstones, an equivalent to the Magnus Formation. The secondary objective was to test the reservoir properties and HC potential of the possible Eocene sandstones. The TD criterion was to drill to approximately 50 m into Triassic sediments, with planned TD at 4524 m.

Operations and results

Wildcat well 33/2-1 was spudded with the semi-submersible installation Transocean Arctic on 7 October 2014 and drilled to TD at 4459 m in the Late Triassic Raude Formation. No significant problem was encountered in the operations. The well was drilled with seawater and viscous sweeps down to 483.5 m, with KCl/glycol mud from 483.5 m to 1422 m, with Performadril water based mud from 1422 m to 2008 m, and with oil based mud from 2208 m to TD.

The primary and the secondary objectives were not encountered. The well proved hydrocarbons (gas/condensate) in non-commercial quantities in two zones in this well. The Early Cretaceous Mime Formation had one meter net pay with HC in the interval 3935 to 3952 m, while the Early Jurassic Eiriksson Formation had 2.6 meter net pay with HC in the interval 4387 to 4411 m. In addition, oil shows were described on cuttings in an Eocene sandstone at 1821 m and in the Lista Formation from 2031 to 2058 m. Oil shows were described also on sidewall cores from the interval 3867 to 4449 m. The oil shows below 2208 m are uncertain, possibly affected by OBM.

No cores were cut. MDT fluid samples were taken at 3943 m (OBM filtrate) and 4409.6 m (oil with 62% mud filtrate contamination). The samplings showed rather tight formations.

The well was permanently abandoned on 26 December 2014 as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
490.00	4458.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
405	NORDLAND GP
405	NAUST FM
1253	UTSIRA FM
1283	HORDALAND GP
1283	UNDIFFERENTIATED
1893	ROGALAND GP
1893	BALDER FM
1945	SELE FM
1972	LISTA FM
2109	SHETLAND GP
2109	JORSALFARE FM
2326	KYRRE FM
3918	BLODØKS FM
3935	CROMER KNOLL GP
3935	MIME FM
3952	VIKING GP
3952	HEATHER FM
4262	BRENT GP
4262	UNDIFFERENTIATED
4326	DUNLIN GP
4326	UNDIFFERENTIATED
4388	STATFJORD GP
4388	EIRIKSSON FM
4411	RAUDE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL CN ZDL	3807	4458
DSL XMAC ORIT HDIL WG	3325	4458
GR RCX FX	3936	4407
GR RCX FX	3942	4457
PCOR	3867	4449

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	483.0	36	483.0	0.00	
PILOT HOLE		1407.0	9 7/8	1407.0	0.00	
SURF.COND.	20	1415.0	26	1422.0	1.65	LOT
INTERM.	13 3/8	2200.0	17 1/2	2208.0	1.78	LOT
INTERM.	9 5/8	3807.2	12 1/2	3816.0	2.04	LOT
OPEN HOLE		4459.0	8 1/2	4459.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
423	1.04	14.0		Water Based	
474	1.04	14.0		Water Based	
548	1.30	14.0		Water Based	
550	1.40	14.0		Water Based	
578	1.30	12.0		Water Based	
685	1.40	14.0		Water Based	
713	1.31	12.0		Water Based	
885	1.40	14.0		Water Based	
1260	1.50	12.0		Water Based	
1675	1.55	21.0		Water Based	
3505	1.87	43.0		Oil Based	
3629	1.65	29.0		Oil Based	
3816	1.93	45.0		Oil Based	
3816	1.65	31.0		Oil Based	
3822	1.89	51.0		Oil Based	
4018	1.88	46.0		Oil Based	
4459	1.80	37.0		Oil Based	