



Generell informasjon





Brønnbane navn	16/1-17
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	16/1-17
Seismisk lokalisering	
Utvinningstillatelse	338
Boreoperatør	Lundin Norway AS
Boretillatelse	1409-L
Boreinnretning	TRANSOCEAN WINNER
Boredager	38
Borestart	11.02.2013
Boreslutt	20.03.2013
Frigitt dato	20.03.2015
Publiseringsdato	18.05.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	110.0
Totalt målt dybde (MD) [m RKB]	2070.0
Totalt vertikalt dybde (TVD) [m RKB]	2070.0
Maks inklinasjon [°]	1.2
Temperatur ved bunn av brønnbanen [°C]	85
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 50' 17.95" N
ØV grader	2° 19' 23.32" E
NS UTM [m]	6522396.52
ØV UTM [m]	460929.42
UTM sone	31
NPDID for brønnbanen	7113



Brønnhistorie

General

Well 16/1-17 was drilled on the Jorvik Prospect on the Utsira High, about 5 km east of 16/1-8, the discovery well on the Edvard Grieg field. The objective of the well was to prove petroleum in Pre-Jurassic sandstone and conglomerate rocks.

Operations and results

Wildcat well 16/1-17 was spudded with the semi-submersible installation Transocean Winner on 9 January 2013 and drilled to TD at 2070 m in granitic Basement rock. Due to shallow gas warnings, a 9 7/8" pilot hole was drilled to 610 m. No shallow gas was observed. Operations proceeded without significant problems. The well was drilled with seawater and high viscosity pills down to 615 m and with Glydril water based mud from 615 m to TD. Geochemical analyses of cuttings and cores show traces of diesel-like hydrocarbons in the mud.

A conglomeratic/sandy section was penetrated from 1869 m to top basement at 1987 m. Poor dating suggest the section to belong to either the Triassic Hegre Group, or the Permian Rotliegend Group. The cores show oil in the conglomeratic part of this section between 1882 m and 1952 m. The shows correspond to increased gas readings on the logs. Moveable oil was sampled here, at high drawdown in tight formation, but no fluid gradients were established. The uppermost part of the basement, 1987.45 to 1993.5 m core was covered by core #5. This is an extremely weathered felsic basement. No granitic wash or regolith was observed in core at the top of the interval. Pressure measurements in the water filled fractured basement indicate a pressure regime analogous to the Edvard Grieg field and the 16/1-12 discovery.

Five cores were cut covering the interval from 1856 m in the Early Cretaceous, throughout the conglomeratic/sandy unit, to 1993 m; six meter into the basement. The total recovery was 100%. MDT fluid samples were taken in the conglomeratic section at 1915.8 m (oil and water), and 1944.6 m (oil and water), and at 1944.61 m (oil and water), and in the basement at 2017.71 m (water).

The well was permanently abandoned on 19 March 2013 as a dry well with shows

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
615.00	2070.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1856.0	1883.5	[m]
2	1883.5	1911.3	[m]
3	1911.3	1939.0	[m]
4	1939.0	1965.8	[m]
5	1965.8	1993.5	[m]

Total kjerneprøve lengde [m]	137.5
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		1915.20	0.00	OIL	05.03.2013 - 00:00	NO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
136	NORDLAND GP
758	UTSIRA FM
902	NO FORMAL NAME
965	HORDALAND GP
976	SKADE FM
1124	NO FORMAL NAME
1507	NO FORMAL NAME
1667	ROGALAND GP
1667	BALDER FM
1678	SELE FM
1717	LISTA FM
1789	VÅLE FM
1806	SHETLAND GP
1806	EKOFISK FM
1822	TOR FM
1850	HOD FM



1860	CROMER KNOLL GP
1860	SOLA FM
1861	ÅSGARD FM
1870	HEGRE GP
1988	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI	1822	2068
FMI MSIP	1240	2061
MDT DP	1915	1944
MDT SATURN	2012	2012
MSCT	1830	2063
MWD - GR PWD DEN SON RES NEU SPE	1818	2064
MWD - GR RES DEN NEU SON DIR PWD	604	1820
MWD - GR RES DIR PWD	1818	1856
MWD - GR RES SON DIR PWD	135	605
PEX HRLA ECS HNGS ADT	1818	2070
VSI	135	2060
XPT MRX	1850	2055

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	214.0	36	216.0	0.00	
SURF.COND.	20	600.0	26	608.0	1.64	LOT
PILOT HOLE		610.0	9 7/8	610.0	0.00	
INTERM.	9 5/8	1818.0	12 1/4	1825.0	1.51	LOT
OPEN HOLE		2070.0	8 1/2	2070.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
300	1.35	25.0		Water Based	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 9.5.2024 - 19:02

440	1.06	24.0		Water Based	
900	1.30	23.0		Water Based	
1468	1.35	20.0		Water Based	
1825	1.35	22.0		Water Based	
1856	1.20	19.0		Water Based	
1938	1.21	16.0		Water Based	
2070	1.20	18.0		Water Based	