



Generell informasjon

Brønnbane navn	16/2-20 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	16/2-20
Seismisk lokalisering	LN0902R12 :inline 3065 & crossline 3710
Utvinningstillatelse	501
Boreoperatør	Lundin Norway AS
Boretillatelse	1498-L
Boreinnretning	ISLAND INNOVATOR
Boredager	89
Borestart	21.11.2013
Boeslutt	16.02.2014
Frigitt dato	16.02.2016
Publiseringsdato	16.02.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	30.0
Vanndybde ved midlere havflate [m]	110.0
Totalt målt dybde (MD) [m RKB]	2215.0
Totalt vertikalt dybde (TVD) [m RKB]	2058.0
Maks inklinasjon [°]	39.8
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 56' 30.84" N
ØV grader	2° 25' 18.62" E
NS UTM [m]	6533876.90
ØV UTM [m]	466725.98
UTM sone	31
NPDID for brønnbanen	7316



Brønnhistorie

General

Well 16/2-20 A is a geologic sidetrack to well 16/2-20 S. Both well tracks were drilled to test the Torvastad prospect north of the Johan Sverdrup Field on the Utsira High in the North Sea. The primary objective was to investigate the Jurassic - Early Cretaceous sequence with respect to reservoir facies, hydrocarbons, free water level, pressure communication with the Johan Sverdrup Field, and seismic interpretations and depth conversion. Well 16/2-20 A was drilled 800 meters towards west to investigate the presence of oil filled Jurassic reservoir at shallower depth than the S well.

Operations and results

Wildcat well 16/2-20 A was drilled with the semi-submersible installation Island Innovator. Operations started on 21 November 2013 but due to problems with the lower marine riser package (LMRP) and bad weather, actual kick-off was not performed until 12 December 2013. The kick-off point was at 732 m in the primary S well. Equipment failure, mainly related to the LMRP, caused 551 hours no production time for this well, while bad weather caused 725 hours WOW. Only 41% of total rig time was counted as productive. The well was drilled to TD at 2215 m in Granitic basement rock using Aquadril mud from kick-off to TD.

Well 16/2-20 A found a late Jurassic Draupne spiculitic sandstone/siltstone sequence of similar extent and facies as found in well 16/2-20 S, despite indications of a thinning of this sequence interpreted from seismic data. The Statfjord Group sequence is not present and the spiculite rests unconformable on a 57 m Triassic Hegre and Skagerrak Group sequence. Good shows were observed in the sandstones of the Draupne and Skagerrak formations.

Three cores were cut in the interval 2090 to 2139 m, recovering a total of 45.7 m (93.3% total recovery). The core to log depth shifts are +0.31 m, -2.28 m, and -2.67 m for cores 1, 2, and 3, respectively. RCX fluid samples were taken at 2125.19 m and 2129.52 m. Water with a fraction of oil was obtained from both depths.

The well was permanently abandoned on 17 February as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
740.00	2215.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 17:32

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2090.0	2099.2	[m]
2	2100.5	2115.6	[m]
3	2117.0	2138.4	[m]

Total kjerneprøve lengde [m]	45.7
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
140	NORDLAND GP
786	UTSIRA FM
860	UNDIFFERENTIATED
953	HORDALAND GP
953	SKADE FM
1067	NO FORMAL NAME
1131	NO FORMAL NAME
1320	NO FORMAL NAME
1592	NO FORMAL NAME
1690	GRID FM
1729	NO FORMAL NAME
1814	ROGALAND GP
1814	BALDER FM
1831	SELE FM
1891	LISTA FM
1998	VÅLE FM
2007	SHETLAND GP
2007	TOR FM
2030	HOD FM
2041	CROMER KNOLL GP
2041	RØDBY FM
2083	SOLA FM
2087	ÅSGARD FM
2105	VIKING GP
2105	DRAUPNE FM
2125	HEGRE GP



2125	SKAGERRAK FM
2167	SMITH BANK FM
2183	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL IFX RCX	2107	2107
DSL MAXCOR	2055	2132
MWD - OTK	2052	2090
MWD - OTK DIR	716	767
MWD - OTK ORD CCN SDTK	2139	2215
MWD - OYK SDTK CCN ORD ZTK	725	1954

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm ³]	Type formasjonstest
INTERM.	9 5/8	2044.0	12 1/4	2052.0	1.60	FIT
OPEN HOLE		2215.0	8 1/2	2215.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
722	1.35	18.0		Water Based	
725	1.39	14.0		Water Based	
733	1.35	20.0		Water Based	
1852	1.39	25.0		Water Based	
2052	1.39	26.0		Water Based	
2090	1.14	21.0		Water Based	
2139	1.14	20.0		Water Based	
2215	1.15	20.0		Water Based	
2215	1.14	19.0		Water Based	