



Generell informasjon

Brønnbane navn	16/3-8 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	JOHAN SVERDRUP
Funn	16/2-6 Johan Sverdrup
Brønn navn	16/3-8
Seismisk lokalisering	LN0902 inline 2361 & crossline 7384
Utvinningstillatelse	501
Boreoperatør	Lundin Norway AS
Boretillatelse	1518-L
Boreinnretning	BREDFORD DOLPHIN
Boredager	15
Borestart	18.03.2014
Boreslutt	01.04.2014
Frigitt dato	01.04.2016
Publiseringsdato	12.04.2016
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA DRAUPNE FM SS
2. nivå med hydrokarboner, alder	PERMIAN
2. nivå med hydrokarboner, formasjon	ZECHSTEIN GP
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	116.0
Totalt målt dybde (MD) [m RKB]	2132.0
Totalt vertikalt dybde (TVD) [m RKB]	2053.0
Maks inklinasjon [°]	21.6
Eldste penetrerte formasjon	ROTLIEGEND GP
Geodetisk datum	ED50
NS grader	58° 48' 23.35" N



ØV grader	2° 40' 27.66" E
NS UTM [m]	6518700.07
ØV UTM [m]	481184.90
UTM sone	31
NPDID for brønnbanen	7459

Brønnhistorie

General

Well 16/3-8 A is a geological sidetrack to well 16/3-8 S. The well was drilled on the eastern part of the Johan Sverdrup Field on the Utsira High in the North Sea. The primary objective was to further investigate the reservoir sections penetrated in the primary well bore 16/3-8 S.

Operations and results

Appraisal well 16/3-8 A was kicked off at 1716 m in the primary well bore on 18 March 2014. It was drilled with the semi-submersible installation Bredford Dolphin to TD at 2132 m in the Permian Rotliegend Group. No significant problem was encountered in the operations. The well was drilled with Aquadrill mud from kick-off to TD.

The well penetrated 12 m of Intra Draupne Formation sandstone at 1960 m, above a thin Triassic sequence and Permian Zechstein carbonates. The Intra Draupne sandstone possessed excellent reservoir properties. Petrophysical analysis show average porosity of 25 %, N/G 0.99 and water saturation of 19 %. The resistivity data over the section is affected by massive filtrate or whole mud invasion. Oil shows were described over the Intra Draupne Formation sandstone reservoir and in the dolomitic limestone in the lower part of the Zechstein Group, down to top Kupferschiefer Formation. The oil-water contact was the same as in the main well bore, at 1950 m TVD.

No cores were cut in this well bore. An RCX fluid sample was taken at 1990 m (water and filtrate).

The well was permanently abandoned on 1 April 2014 as an oil appraisal well.

Testing

No drill stem test was performed.

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
141	NORDLAND GP
833	UTSIRA FM
860	UNDIFFERENTIATED
946	HORDALAND GP
946	SKADE FM
1014	NO FORMAL NAME



1394	NO FORMAL NAME
1421	ROGALAND GP
1421	BALDER FM
1450	SELE FM
1466	LISTA FM
1550	VÅLE FM
1570	SHETLAND GP
1570	EKOFISK FM
1578	TOR FM
1641	HOD FM
1766	BLODØKS FM
1795	SVARTE FM
1840	CROMER KNOLL GP
1840	RØDBY FM
1924	SOLA FM
1934	ÅSGARD FM
1960	VIKING GP
1960	DRAUPNE FM
1966	INTRA DRAUPNE FM SS
1979	HEGRE GP
1979	SMITH BANK FM
1986	ZECHSTEIN GP
2066	KUPFERSCHIEFER FM
2069	ROTLIEGEND GP

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CN ZDL ORIT XMAC RTEX MLL	1710	2125
GR MAXCOR	1976	1988
GR RCX RSPS	1966	2063
MWD LWD - ASS ZT OT2 CCN ST	602	1715
MWD LWD - OT	1715	1759
MWD LWD - OT ST	141	607
MWD LWD - ZTG OT ORD2.6 CCN ST	1715	2130
STAR ORIT UXPL	1725	2124



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
OPEN HOLE		2132.0	8 1/2	2132.0	1.45	FIT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fllytegrense [Pa]	Type slam	Dato, måling
442	1.40			Brine	
1741	1.16			Waterbased	
1876	1.15			Waterbased	
2132	1.40			Waterbased	