



Generell informasjon

Brønnbane navn	16/2-22 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	JOHAN SVERDRUP
Funn	16/2-6 Johan Sverdrup
Brønn navn	16/2-22
Seismisk lokalisering	IL3105. XL3565 (LN0902STR11)
Utvinningstillatelse	265
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1646-L
Boreinnretning	DEEPSEA ATLANTIC
Boredager	13
Borestart	16.01.2017
Boreslutt	28.01.2017
Plugget og forlatt dato	29.01.2017
Frigitt dato	28.01.2019
Publiseringsdato	04.04.2019
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
Avstand, boredekk - midlere havflate [m]	30.0
Vanndybde ved midlere havflate [m]	116.0
Totalt målt dybde (MD) [m RKB]	1993.0
Totalt vertikalt dybde (TVD) [m RKB]	1982.0
Maks inklinasjon [°]	9.8
Temperatur ved bunn av brønnbanen [°C]	85
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50



NS grader	58° 55' 33.5" N
ØV grader	2° 24' 33.2" E
NS UTM [m]	6532109.67
ØV UTM [m]	465984.21
UTM sone	31
NPDID for brønnbanen	8083

Brønnhistorie

General

Well 16/2-22 S was drilled to appraise the Northern outline of the Johan Sverdrup Field on the Utsira High in the North Sea. The Johan Sverdrup reservoir range from Late Triassic to Early Cretaceous in age, with Intra Draupne Formation sandstone as the main unit. The primary objective was to test The Intra-Draupne Formation sandstone and investigate pressure communication.

Operations and results

Appraisal well 16/2-22 S was spudded with the semi-submersible installation Deepsea Atlantic on 16 January 2017 and drilled to TD at 1993 m (1982 m TVD) m in granitic basement. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1214 m and with Carbosea oil-based mud from 1214 m to TD.

The Intra Draupne Formation reservoir was penetrated from 1934.5 to 1950 m. The Formation consists of muddy spiculites and is directly overlying basement. It is oil bearing from top to base. No shows were observed in the well outside of the oil-bearing reservoir. Pressure data over the reservoir proved an oil gradient that match the one in surrounding wells. The reservoir pressure is about 0.4 bar lower pressure compared to previously drilled well 16/2-12. This difference is in line with the rate of pressure depletion in the area.

One core was cut from 1937 to 1953 m in the Intra Draupne Formation sandstone and Basement with 100% recovery. Two RCX fluid samples were taken. Oil was sampled at 1943.4 m (1933.4 m TVD) and water at 1950 m (1939.9 m TVD).

The well was permanently abandoned on 28 January 2017 as an oil appraisal.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1220.00	1993.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----



Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1937.0	1953.5	[m]

Total kjerneprøve lengde [m]	16.5
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
146	NORDLAND GP
791	UTSIRA FM
919	HORDALAND GP
919	SKADE FM
1090	NO FORMAL NAME
1643	ROGALAND GP
1643	BALDER FM
1657	SELE FM
1691	LISTA FM
1799	VÅLE FM
1808	SHETLAND GP
1808	EKOFISK FM
1818	TOR FM
1855	HOD FM
1891	CROMER KNOLL GP
1891	RØDBY FM
1919	SOLA FM
1923	ÅSGARD FM
1935	VIKING GP
1935	DRAUPNE FM
1950	BASEMENT

Logger



Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL MREX CN ZDL HDIL	1208	1993
GR FLEX GXPLORIT UXPL	1208	1993
GR FTEX ORIT XMAC	1208	1993
GR RCX SENT	1816	1950
MWD - GR RES	200	1993

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	36	195.5	42	200.0	0.00	
INTERM.	13 3/8	1208.3	17 1/2	1214.0	1.42	FIT
OPEN HOLE		1993.0	12 1/4	1993.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
200	1.25	8.0		Bentonite/Polymer mud	
1093	1.25	24.0		CARBOSEA	
1214	1.25	8.0		Bentonite/Polymer mud	
1214	1.25	27.0		CARBOSEA	
1312	1.25	30.0		CARBOSEA	
1833	1.25	25.0		CARBOSEA	
1911	1.25	25.0		CARBOSEA	
1943	1.25	24.0		CARBOSEA	
1993	1.25	24.0		CARBOSEA	