

**Generell informasjon**

Brønnbane navn	16/3-U-1
Type	OTHER
Formål	APPRAISAL
Status	P&A
Flergrensbønn	NO
Hovedområde	NORTH SEA
Felt	JOHAN SVERDRUP
Funn	16/2-6 Johan Sverdrup
Brønn navn	16/3-U-1
Utvinningstillatelse	501
Boreoperatør	Statoil Petroleum AS
Boretillatelse	778-G
Boreinnretning	DEEPSEA ATLANTIC
Boredager	12
Borestart	13.12.2016
Boreslutt	24.12.2016
Frigitt dato	24.12.2018
Plugget og forlatt dato	16.01.2017
Plugget dato	24.12.2016
Publiseringsdato	24.12.2018
Opprinnelig formål	PILOT
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]	118.0
Totalt målt dybde (MD) [m RKB]	2005.0
Totalt vertikalt dybde (TVD) [m RKB]	1999.0
Maks inklinasjon [°]	11.4
Temperatur ved bunn av brønnbanen [°C]	82
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 46' 6.69" N



ØV grader	2° 47' 1.87" E
NS UTM [m]	6514447.47
ØV UTM [m]	487497.99
UTM sone	31
NPDID for brønnbanen	8071

Brønnhistorie

General

Well 16/3-U-1 was drilled on the south-eastern end of the Johan Sverdrup Field on the Utsira High in the North Sea. The reservoir in this part of the field is below seismic resolution. The primary objective was to investigate sand presence, thickness and quality. Side-tracks were planned to further investigate horizontal well drilling and high angle hole time-stability in Draupne shales.

Operations and results

Well 16/3-U-1 was spudded with the semi-submersible installation Deepsea Atlantic on 13 December 2016 and drilled to TD at 2005 m (1999 m TVD) m in Basement rocks. The well was designed with open hole below the 13 3/8" casing shoe at 1119 m in the Hordaland Group. This allowed for reservoir logging at TD to be extended to the overburden. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to down to 1130 m and with Carbosea oil-based mud from 1130 m to TD.

The Draupne Formation was encountered at 1938 m (1932 m TVD), the Intra-Draupne Formation sandstone at 1950 m (1944 m TVD), and top Basement at 1959 m (1953 m TVD). The Intra-Draupne Formation sandstone had excellent reservoir properties and was oil-filled all through. No oil shows were described outside of the oil-bearing reservoir. Pressure data show ca 0.9 bar depletion in the reservoir compared to the pressure in well 16/3-5 in January 2013. Pressure data and logs in the overburden show no indication of flow potential.

One core was cut from 1943 to 1962 m in Draupne shale, sandstone and into basement. An RCX oil sample was taken at 1958.2 m.

The well was plugged back for side-tracking on 24 December 2016.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1140.00	1960.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1943.0	1961.3	[m]

Total kjerneprøve lengde [m]	18.3
Kjerner tilgjengelig for prøvetaking?	YES

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	197.6	42	205.0	0.00	
INTERM.	13 3/8	1119.4	17 1/2	1127.0	1.42	FIT
OPEN HOLE		2005.0	12 1/4	2005.0	0.00	

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MRCH JAR TTRM DSL CN CDL HDIL OR	1287	1999
MRCH JAR TTRM GR FLEX GXPL ORIT	999	999
MRCH JAR TTRM GR MREX R6TC IFX R	1287	1999
MWD - GR RES	203	1127
MWD - NBGR GR RES	1127	1943

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
148	NORDLAND GP
773	UTSIRA FM
858	HORDALAND GP
858	SKADE FM
1307	ROGALAND GP



Faktasider

Brønnbane / Utvinning

Utskriftstidspunkt: 19.5.2024 - 23:42

1307	BALDER FM
1340	SELE FM
1360	LISTA FM
1419	VÅLE FM
1429	SHETLAND GP
1429	EKOFISK FM
1445	TOR FM
1532	HOD FM
1647	BLODØKS FM
1739	SVARTE FM
1782	CROMER KNOLL GP
1782	RØDBY FM
1866	SOLA FM
1896	ÅSGARD FM
1938	VIKING GP
1938	DRAUPNE FM
1950	INTRA DRAUPNE FM SS
1959	BASEMENT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
377	1.25	8.0		Spud Mud	
1346	1.33	25.0		CARBOSEA	
1642	1.25	29.0		CARBOSEA	
1936	1.27	27.0		CARBOSEA	
1996	1.26	27.0		CARBOSEA	
2005	1.25	27.0		CARBOSEA	

Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
0.0	[unknown]	C	CGG