



Generell informasjon

Brønnbane navn	30/11-9 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	MUNIN
Funn	30/11-9 A (Askja Øst)
Brønn navn	30/11-9
Seismisk lokalisering	inline 1231 & xline 2271(3D survey:NVG05STR11)
Utvinningstillatelse	272
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1483-L
Boreinnretning	OCEAN VANGUARD
Boredager	56
Borestart	14.11.2013
Boreslutt	08.01.2014
Frigitt dato	08.01.2016
Publiseringsdato	08.01.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	110.0
Totalt målt dybde (MD) [m RKB]	4054.0
Totalt vertikalt dybde (TVD) [m RKB]	3667.5
Maks inklinasjon [°]	39.4
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	NESS FM
Geodetisk datum	ED50
NS grader	60° 6' 10.86" N



ØV grader	2° 35' 13.44" E
NS UTM [m]	6663111.75
ØV UTM [m]	477038.13
UTM sone	31
NPDID for brønnbanen	7281

Brønnhistorie

General

Well 30/11-9 A is a geologic sidetrack to well 30/11-9 S. It was drilled to test the Askja East prospect in the Fensal Sub-basin, about 35 km south of the Oseberg Sør installation in the North Sea. The Askja East prospect is situated in a separate fault block to the 30/11-9 S Askja West discovery. The primary objective for 30/9-11 A was to prove petroleum in the Middle Jurassic Tarbert Formation. The secondary exploration target was to prove petroleum in reservoir rocks in the Middle Jurassic Ness and Etive formations.

Operations and results

Wildcat well 30/11-9 A was kicked off at 1401 m in main well 30/11-9 S on 13 November 2013. It was drilled with the semi-submersible installation Ocean Vanguard to TD at 4054 m in the Middle Jurassic Ness Formation. Problems with the Ocean Vanguard DDM caused some downtime and slow drilling in periods, but otherwise no significant problem was encountered in the operations. The well was drilled with XP-07 oil based mud from kick-off to TD.

The top of the expected main reservoir, Tarbert Formation came in as prognosed at 3615 m (3252 m TVD). Based on pressure gradients and fluid sampling, oil was present in two differently pressured compartments within the upper part of the Tarbert Formation. The upper reservoir contained oil from 3615 m (3252 m TVD) down to an oil-water contact indicated at 3636 m (3272 m TVD). The lower reservoir contained oil from 3745 m (3374.5 m TVD) down to an oil-water contact indicated at 3771 m (3400 m TVD). Oil shows (fluorescence) were described on sandstones in between these two reservoirs. The lower part of Tarbert Formation and the Ness Formation were water bearing. The Etive Formation was not drilled since the Ness Formation was water bearing.

Three cores were cut in 30/11-9 A, all three with 100% recovery. Core 1 was cut from 3613.6 to 3667 m, while cores 2 and 3 were cut and recovered the whole interval from 3738.5 to 3848 m. The core to log depth shift was ca +4.4 m for all three cores. MDT fluid samples were taken at 3619.2 m (oil), 3749.0 m (oil), 3754.9 m (oil), 3771.9 m (water), and 3837.0 m (water).

The well was permanently abandoned on 9 January 2014 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1410.00	4054.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3613.6	3667.8	[m]
2	3738.5	3792.6	[m]
3	3792.6	3848.0	[m]

Total kjerneprøve lengde [m]	163.7
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
132	NORDLAND GP
132	UNDIFFERENTIATED
537	UTSIRA FM
697	HORDALAND GP
697	UNDIFFERENTIATED
1429	GRID FM
1481	UNDIFFERENTIATED
2195	FRIGG FM
2299	ROGALAND GP
2299	BALDER FM
2351	SELE FM
2376	HERMOD FM
2575	LISTA FM
2686	VÅLE FM
2800	SHETLAND GP
2800	HARDRÅDE FM
3136	KYRRE FM
3349	CROMER KNOLL GP
3349	UNDIFFERENTIATED
3424	VIKING GP
3424	DRAUPNE FM



3474	HEATHER FM
3615	BRENT GP
3615	TARBERT FM
3896	NESS FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
2XOBMI GPIT NGI HNGS GR	3491	3950
AIT PPC MSIP PPC PEX	3289	4054
CBL USIT GYRO	2836	3421
MWD LWD - PD ARC8 TELE	1289	3512
MWD LWD - PD X6 PERI15 TELE	2474	4054
PS HY PO LFA SC1 MS PC CMR GR	3619	3982
SC PO PA PQ HY PO SC GR CMR	3550	3815
SCEX PO PQ HY LFA SC1 MS PC GR	3619	3755

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
INTERM.	9 5/8	3491.0	12 1/4	3491.0	1.91	LOT
OPEN HOLE		4054.0	8 1/2	4054.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1421	1.43	28.0		XP-07 - Yellow	
2820	1.45	31.0		XP-07 - Yellow	
3228	1.45	23.0		XP-07 - Yellow	
3444	1.30	25.0		XP-07 - Yellow	
3512	1.27	14.0		XP-07 - Yellow	
3613	1.27	20.0		XP-07 - Yellow	
4054	1.29	25.0		XP-07 - Yellow	