



Generell informasjon

Brønnbane navn	6608/10-15
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	URD
Funn	6608/10-15 (Svale Nord)
Brønn navn	6608/10-15
Seismisk lokalisering	3D survey ST04M17 Inline 1264. X-line 2657
Utvinningstillatelse	128
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1466-L
Boreinnretning	SONGA TRYM
Boredager	24
Borestart	20.08.2013
Boreslutt	12.09.2013
Frigitt dato	12.09.2015
Publiseringsdato	12.09.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	ÅRE FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	MELKE FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	375.0
Totalt målt dybde (MD) [m RKB]	2030.0
Totalt vertikalt dybde (TVD) [m RKB]	2030.0
Maks inklinasjon [°]	0.8
Temperatur ved bunn av brønnbanen [°C]	70



Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	66° 5' 20.78" N
ØV grader	8° 16' 41.48" E
NS UTM [m]	7330215.93
ØV UTM [m]	467352.72
UTM sone	32
NPDID for brønnbanen	7245

Brønnhistorie

General

Well 6608/10-15 was drilled on the Svale Nord prospect about nine kilometres northeast of the Norne field in the Norwegian Sea. The primary objective was to prove petroleum in the Early Jurassic Åre Formation. The secondary objective was to prove petroleum in the Middle Jurassic Intra-Melke Formation sandstone.

Operations and results

Wildcat well 6608/10-15 was spudded with the semi-submersible installation Songa Trym on 20 August 2013 and drilled to TD at 2030 m in the Early Jurassic Formation. No shallow gas or water flows were encountered in the top hole. Operations proceeded without significant problems. The well was drilled with seawater down to 454 m, with KCl/Glycol water based mud from 554 m to 1707 m, and with KCl/GEM/Polymer - low sulphate mud from 1707 m to TD.

Top of the Intra-Melke Formation sandstone was picked at 1860 m. The Intra-Melke Formation sandstone was oil filled with an approximate 30 - 36 m oil column. The oil-water contact is estimated to be between 1890 and 1896 m. Top of the expected main reservoir, is interpreted to be a sandstone in the lower Not Formation at 1924 m while the Top Åre Formation was picked at 1934 m, 14 m deeper than prognosed. The Not/Åre sandstones showed good reservoir properties and contained an approximate 43 - 51 m oil column. The oil-water contact is most likely between the oil sample at 1967 m and the water sample at 1975.5 m, however an oil down-to situation cannot be ruled out based on the present data. Geochemical analyses of the Åre oil and gas show biodegraded oil and a mix of biogenic and thermogenic gas. The Åre 1 Formation was water saturated. No oil shows were described outside of the hydrocarbon-bearing reservoirs.

No cores were cut in the well. MDT fluid samples were taken at 1948.7 m (oil), 1948.71 m (oil), 1961 m (oil), 1967.7 m (oil), 1975.51 m (water), and 1893.81 m (water).

The well was permanently abandoned on 12 September 2013 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1350.00	2028.00

Borekaks tilgjengelig for prøvetaking?	YES
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Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		0.00	1963.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
400	NORDLAND GP
672	NAUST FM
1369	KAI FM
1467	HORDALAND GP
1467	BRYGGE FM
1640	ROGALAND GP
1640	TARE FM
1690	TANG FM
1714	SHETLAND GP
1714	SPRINGAR FM
1735	CROMER KNOLL GP
1735	LYR FM
1830	VIKING GP
1830	MELKE FM
1860	INTRA MELKE FM SS
1905	FANGST GP
1905	NOT FM
1934	BÅT GP
1934	ÅRE FM

Logger



Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR HRLA PEX ECS GR	1707	2030
FMI MSIP GR	1295	2025
MDT GR	1848	1961
MDT GR	1861	2018
MDT GR	1890	1961
MWD - GVR ARCVIS RES TELE	1700	2030
MWD - PD ARC TELE	436	1337
MWD - PD ARCVIS RES TELE	1300	1707
MWD - TELE	400	454
VSI GR	400	2020

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	30	451.0	36	454.5	0.00	
SURF.COND.	13 3/8	1331.0	17 1/2	1337.0	1.41	FIT
LINER	9 5/8	1706.0	12 1/4	1707.0	1.64	FIT
OPEN HOLE		2030.0	8 1/2	2030.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
437	1.39	23.0		KCl/Polymer/Glycol	
1337	1.27	19.0		KCl/Polymer/Glycol	
1337	1.28	17.0		KCl/Polymer/Glycol	
1530	1.22	20.0		Low Sulphate/KCl/Poly mer/Glycol	
1707	1.27	22.0		KCl/Polymer/Glycol	
2031	1.22	20.0		Low Sulphate/KCl/Poly mer/Glycol	