



Generell informasjon

Brønnbane navn	6508/1-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6508/1-2
Brønn navn	6508/1-2
Seismisk lokalisering	xline 2502 & inline 4866-EN0804
Utvinningstillatelse	482
Boreoperatør	Det norske oljeselskap ASA
Boretillatelse	1341-L
Boreinnretning	AKER BARENTS
Boredager	24
Borestart	20.08.2011
Boreslutt	12.09.2011
Frigitt dato	12.09.2013
Publiseringsdato	12.09.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	TILJE FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	ROR FM
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	395.0
Totalt målt dybde (MD) [m RKB]	1810.0
Totalt vertikalt dybde (TVD) [m RKB]	1810.0
Maks inklinasjon [°]	1
Temperatur ved bunn av brønnbanen [°C]	60
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	65° 55' 50.28" N
ØV grader	8° 1' 52.78" E
NS UTM [m]	7312703.59
ØV UTM [m]	455915.05
UTM sone	32
NPDID for brønnbanen	6551

Brønnhistorie

General

Well 6508/1-2 was drilled on the Skaugumsåsen prospect in the south-western end of the Helgeland Basin in the Norwegian Sea, about ten kilometres south of the Norne field. The primary objective was to prove petroleum in reservoirs of the Early Jurassic Båt Group. A Secondary objective was to test the reservoir and HC potential of the Paleocene Tare Formation.

Operations and results

A 9 7/8" pilot well 6508/1-U-2 was drilled to 1305 m to check for shallow gas. No indications of shallow gas were seen. Wildcat well 6508/1-2 was spudded with the semi-submersible installation Aker Barents on 20 August 2011 and drilled to TD at 1810 m in the Early Jurassic Tilje Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 1301 m and with Glydril/KCl mud from 1301 m to TD.

The Rogaland Group (Tare and Tang formations) contained some thin hydrocarbon bearing intervals around 1650 to 1660 m. The net pay here was 4.4 m with average porosity of 28%. The zone was overpressured and not in communication with the deeper reservoir zones, and headspace gas analyses from this section indicated the gas was diagenetic, not thermogenic. The top of the main reservoir, the Early Jurassic Ror Formation, was encountered at 1715.5 m underlying the Late Cretaceous Nise Formation. A gas column of 18.2 (1715.5 - 1733.7 m) was present in the Ror Formation, and an oil column of 22.3m was present in the Ror and Tilje Formations down to an OWC at 1756 m. Weak shows continued on the cores down to 1762 m otherwise no shows were seen in this well outside of the hydrocarbon bearing reservoir.

Two cores were cut in the interval 1718.5 m - 1764 m in the Ror and Tilje formations. Wire line logging was performed in the 8 1/2" section, along with pressure points from the Tare Formation down through the Ror Formation. A gas sample was collected at 1716 m in the Ror Formation, an oil sample at 1754 m in the Ror Formation and a water sample at 1760.5 in the Tilje Formation

The well was permanently abandoned on 12 September 2011 as an oil and gas discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1300.00	1810.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1718.5	1735.8	[m]
2	1736.5	1763.9	[m]

Total kjerneprøve lengde [m]	44.7
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		1754.10	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
435	NORDLAND GP
435	NAUST FM
1305	KAI FM
1560	HORDALAND GP
1560	BRYGGE FM
1573	ROGALAND GP
1573	TARE FM
1654	TANG FM
1700	SHETLAND GP
1700	SPRINGAR FM
1708	NISE FM



1716	BÅT GP
1716	ROR FM
1752	TILJE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT GR	1652	1760
MFI DST GR	1252	1807
MWD	435	495
MWD LWD - ARCVIS	495	1301
MWD LWD - ARCVIS SONVIS	435	1525
MWD LWD - GEOVIS ARCVIS ADNVIS S	1525	1810
PEX HRLA HGS CMR	1525	1808
VSP GR	418	1800

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	495.0	30	495.0	0.00	LOT
SURF.COND.	13 3/8	1294.0	17 1/2	1301.0	0.00	LOT
INTERM.	9 5/8	1521.0	12 1/4	1525.0	0.00	LOT
OPEN HOLE		1810.0	8 1/2	1810.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
495	1.02			Bentonite Spud mud	
1301	1.39	14.0		SW/Bentonite sweeps/Glydril	
1304	1.29	17.0		Glydril	
1750	1.39	29.0		Glydril	
1764	1.39	28.0		Glydril	
1810	1.39	27.0		Glydril	



Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
6551 Formation pressure (Formasjonstrykk)	pdf	0.18

