



Generell informasjon

Brønnbane navn	6507/11-8
Type	EXPLORATION
Formål	WILDCAT
Status	PLUGGED
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	YTTERGRYTA
Funn	6507/11-8
Brønn navn	6507/11-8
Seismisk lokalisering	
Utvinningstillatelse	062
Boreoperatør	Statoil ASA (old)
Boretillatelse	1143-L
Boreinnretning	STENA DON
Boredager	34
Borestart	31.05.2007
Boreslutt	03.07.2007
Plugget dato	03.07.2007
Frigitt dato	03.07.2009
Publiseringsdato	03.07.2009
Opprinnelig formål	WILDCAT
Reklassifisert fra brønnbane	6507/11-V-1 H
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	GARN FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	ILE FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	300.5
Totalt målt dybde (MD) [m RKB]	2773.0
Totalt vertikalt dybde (TVD) [m RKB]	2772.0
Maks inklinasjon [°]	4.2



Temperatur ved bunn av brønnbanen [°C]	97
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	65° 6' 41.74" N
ØV grader	7° 30' 33.21" E
NS UTM [m]	7221898.70
ØV UTM [m]	429994.97
UTM sone	32
NPDID for brønnbanen	5562

Brønnhistorie

**General**

Well 6507/11-8 is located on the eastern part of the Halten Terrace, just north of the Midgard discovery. It was drilled on the Yttergryta structure with the primary objective to identify gas in Garn and Ile Formations. The secondary objective of well 6507/11-8 was to acquire data and test for possible hydrocarbons in the Tilje and Åre Formations.

Operations and results

Well 6507/11-8 was spudded with the semi-submersible installation Stena Don on 31 May 2007 and drilled to TD at 2773 m in Early Jurassic sediments of the Åre Formation. Well 6507/11-8 was drilled with spud mud down to 366 m, with BARASILC KCl mud from 366 m to 1800 m, and with a KCL/polymer/glycol mud from 1800 m to TD. Shallow gas was predicted at 526 - 648 m, but no shallow gas was observed.

The lithology down to top Garn Formation at 2416 m was mainly claystone with no reservoir quality. The petrophysical evaluation showed high hydrocarbon saturation in the Garn and Ile Formations, and excellent reservoir quality with 28% porosity and up to 6 Darcy permeability. MDT pressure data showed that the reservoir was in a dynamic stage of depletion due to production from the Åsgard Field (Midgard discovery). A gas down-to situation was proven, and it is assumed that the original, pre-production contact has been common with the Midgard Field contact at 2515 m (2490 m TVD MSL). Apart from the gas in the target reservoir there were no significant hydrocarbon indications in the well.

Two cores were cut at 2427.3 to 2452.5 m in the Garn/Not Formations and at 2462 to 2505 m in the Ile Formation. MDT gas/condensate samples were taken at 2424 m (PVT analysis, single stage separation: condensate/gas ratio = 20740 Sm³/Sm³, condensate density = 0.792 g/cm³, gas gravity = 0.695) and at 2463 m (PVT analysis, single stage separation: condensate/gas ratio = 18000 Sm³/Sm³, condensate density = 0.789 g/cm³, gas gravity = 0.695). MDT water samples were taken at 2615 m. Extreme invasion profiles were visible from the resistivities, and there was concern this should affect the gas samples. However the samples proved of good quality.

The well was suspended on 3 July 2007 as a gas discovery. In 2008 it was completed as a gas producer.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
510.00	2773.30

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 02:55

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2427.7	2451.1	[m]
2	2462.0	2506.1	[m]

Total kjerneprøve lengde [m]	67.5
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
325	NORDLAND GP
325	NAUST FM
1399	KAI FM
1763	HORDALAND GP
1763	BRYGGE FM
2000	ROGALAND GP
2000	TARE FM
2059	TANG FM
2205	SHETLAND GP
2205	NISE FM
2359	CROMER KNOLL GP
2359	LYR FM
2373	VIKING GP
2373	SPEKK FM
2391	MELKE FM
2416	FANGST GP
2416	GARN FM
2447	NOT FM
2459	ILE FM
2519	BÅT GP
2519	ROR FM
2594	TILJE FM
2701	ÅRE FM

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	357.0	36	360.0	0.00	LOT
SURF.COND.	20	494.0	26	500.0	1.36	LOT
INTERM.	13 3/8	1790.0	17 1/2	1795.0	0.00	LOT
INTERM.	9 5/8	2393.0	12 1/4	2396.0	1.37	LOT
OPEN HOLE		2773.0	8 1/2	2773.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
501	1.18	17.0		SILICATE	
1090	1.21	17.0		SILICATE	
1800	1.30	16.0		SILICATE	
2394	1.20	13.0		KCL/POLYMER	
2394	1.20			KCL/POLYMER/GLY COL	

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 brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
5562 Formation pressure (Formasjonstrykk)	pdf	0.27

