



Generell informasjon

Brønnbane navn	6407/7-9 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6407/7-9 A
Brønn navn	6407/7-9
Seismisk lokalisering	ST14204Z15. inline: 5733; xline: 1313
Utvinningstillatelse	107
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1639-L
Boreinnretning	SONGA DELTA
Boredager	26
Borestart	20.09.2016
Boreslutt	16.10.2016
Frigitt dato	16.10.2018
Publiseringsdato	03.12.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TILJE FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	ÅRE FM
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	323.0
Totalt målt dybde (MD) [m RKB]	4960.0
Totalt vertikalt dybde (TVD) [m RKB]	4156.0
Maks inklinasjon [°]	48.2
Temperatur ved bunn av brønnbanen [°C]	155
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	64° 18' 59.25" N
ØV grader	7° 9' 24.4" E
NS UTM [m]	7133747.71
ØV UTM [m]	410870.09
UTM sone	32
NPDID for brønnbanen	8050

Brønnhistorie

Wellbore history

General

Well 6407/7-9 A was drilled to test the Njord North Flank 3 prospect about 6 km north of the producing Njord Field in the Norwegian Sea. The primary objective was to prove hydrocarbon potential in the Early-Middle Jurassic Tilje and Ile formations. The secondary objective was to test the hydrocarbon potential in the Åre Formation.

Operations and results

Wildcat well 6407/7-9 A was kicked off on 20 September 2016, from 1110.7 m in the 13 3/8" casing in primary well 6407/7-9 S. The sidetrack was drilled with the semi-submersible installation Songa Delta to TD at 4960 m in the Early Jurassic Åre Formation. Operations proceeded without significant problems. The well was drilled with XP07 oil based mud from kick-off to TD.

Gas with traces of oil-range hydrocarbons was encountered in thin intra-Lange Formation sandstones in the interval 3644 to 3780 m. Top Ile Formation was penetrated at 3992 m (3365.1 m TVD). The Ile Formation had shows in the top from 3998 to 4008 m, but no mobile hydrocarbons were proven. A 195-metre TVD gas column was encountered in the Tilje Formation, from formation top to formation base, and a 140-metre TVD gas column from top Åre Formation to ca 4888 m (4097 m). The reservoir properties in the reservoirs are poor to moderate. No true oil-water contact was observed, only down-to contacts. Weak oil shows (fluorescence) are described below 4888 m in the Åre Formation as deep as 4977 m.

No cores were cut. MDT fluid samples were taken in the Ile Formation at 4326.1 m (water), and in the Tilje Formation at 4659.4 m (gas condensate). Isotubes to collect further gas, including in the Lange Formation, proved to contain only air and no formation gas.

The well was permanently abandoned on 16 October 2016 as a gas discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1120.00	4960.00
Borekaks tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1120.0	[m]	DC	APT
1160.0	[m]	DC	APT
1200.0	[m]	DC	APT
1240.0	[m]	DC	APT
1280.0	[m]	DC	APT
1320.0	[m]	DC	APT
1360.0	[m]	DC	APT
1400.0	[m]	DC	APT
1440.0	[m]	DC	APT
1480.0	[m]	DC	APT
1520.0	[m]	DC	APT
1560.0	[m]	DC	APT
1600.0	[m]	DC	APT
1640.0	[m]	DC	APT
1680.0	[m]	DC	APT
1720.0	[m]	DC	APT
1760.0	[m]	DC	APT
1800.0	[m]	DC	APT
1840.0	[m]	DC	APT
1880.0	[m]	DC	APT
1920.0	[m]	DC	APT
1960.0	[m]	DC	APT
2000.0	[m]	DC	APT
2040.0	[m]	DC	APT
2080.0	[m]	DC	APT
2120.0	[m]	DC	APT
2160.0	[m]	DC	APT
2200.0	[m]	DC	APT
2240.0	[m]	DC	APT
2280.0	[m]	DC	APT



2320.0	[m]	DC	APT
2360.0	[m]	DC	APT
2400.0	[m]	DC	APT
2440.0	[m]	DC	APT
2480.0	[m]	DC	APT
2520.0	[m]	DC	APT
2560.0	[m]	DC	APT
2600.0	[m]	DC	APT
2640.0	[m]	DC	APT
2680.0	[m]	DC	APT
2720.0	[m]	DC	APT
2760.0	[m]	DC	APT
2800.0	[m]	DC	APT
2840.0	[m]	DC	APT
2880.0	[m]	DC	APT
2920.0	[m]	DC	APT
2960.0	[m]	DC	APT
3000.0	[m]	DC	APT
3040.0	[m]	DC	APT
3080.0	[m]	DC	APT
3120.0	[m]	DC	APT
3160.0	[m]	DC	APT
3200.0	[m]	DC	APT
3240.0	[m]	DC	APT
3280.0	[m]	DC	APT
3850.0	[m]	DC	APT
3870.0	[m]	DC	APT
3890.0	[m]	DC	APT
3900.0	[m]	DC	APT
3910.0	[m]	DC	APT
3920.0	[m]	DC	APT
3930.0	[m]	DC	APT
3940.0	[m]	DC	APT
3950.0	[m]	DC	APT
3960.0	[m]	DC	APT
3970.0	[m]	DC	APT
3980.0	[m]	DC	APT
3990.0	[m]	DC	APT
4000.0	[m]	DC	APT
4009.0	[m]	DC	APT



4018.0	[m]	DC	APT
4027.0	[m]	DC	APT
4036.0	[m]	DC	APT
4045.0	[m]	DC	APT
4054.0	[m]	DC	APT
4063.0	[m]	DC	APT
4072.0	[m]	DC	APT
4081.0	[m]	DC	APT
4090.0	[m]	DC	APT
4099.0	[m]	DC	APT
4108.0	[m]	DC	APT
4117.0	[m]	DC	APT
4126.0	[m]	DC	APT
4135.0	[m]	DC	APT
4144.0	[m]	DC	APT
4153.0	[m]	DC	APT
4162.0	[m]	DC	APT
4171.0	[m]	DC	APT
4180.0	[m]	DC	APT
4189.0	[m]	DC	APT
4198.0	[m]	DC	APT
4207.0	[m]	DC	APT
4216.0	[m]	DC	APT
4225.0	[m]	DC	APT
4234.0	[m]	DC	APT
4242.0	[m]	DC	APT
4252.0	[m]	DC	APT
4261.0	[m]	DC	APT
4270.0	[m]	DC	APT
4279.0	[m]	DC	APT
4288.0	[m]	DC	APT
4297.0	[m]	DC	APT
4306.0	[m]	DC	APT
4315.0	[m]	DC	APT
4324.0	[m]	DC	APT
4333.0	[m]	DC	APT
4342.0	[m]	DC	APT
4351.0	[m]	DC	APT
4360.0	[m]	DC	APT
4369.0	[m]	DC	APT



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 09:04

4378.0 [m]	DC	APT
4387.0 [m]	DC	APT
4396.0 [m]	DC	APT
4405.0 [m]	DC	APT
4414.0 [m]	DC	APT
4423.0 [m]	DC	APT
4432.0 [m]	DC	APT
4441.0 [m]	DC	APT
4450.0 [m]	DC	APT
4459.0 [m]	DC	APT
4468.0 [m]	DC	APT
4477.0 [m]	DC	APT
4486.0 [m]	DC	APT
4496.0 [m]	DC	APT
4504.0 [m]	DC	APT
4513.0 [m]	DC	APT
4522.0 [m]	DC	APT
4531.0 [m]	DC	APT
4540.0 [m]	DC	APT
4549.0 [m]	DC	APT
4558.0 [m]	DC	APT
4567.0 [m]	DC	APT
4571.4 [m]	SWC	APT
4576.0 [m]	DC	APT
4585.0 [m]	DC	APT
4594.0 [m]	DC	APT
4603.0 [m]	DC	APT
4612.0 [m]	DC	APT
4621.0 [m]	DC	APT
4630.0 [m]	DC	APT
4639.0 [m]	DC	APT
4644.2 [m]	SWC	APT
4648.0 [m]	DC	APT
4657.0 [m]	DC	APT
4666.0 [m]	DC	APT
4675.0 [m]	DC	APT
4684.0 [m]	DC	APT
4693.0 [m]	DC	APT
4702.0 [m]	DC	APT
4711.0 [m]	DC	APT



4720.0 [m]	DC	APT
4729.0 [m]	DC	APT
4738.0 [m]	DC	APT
4747.0 [m]	DC	APT
4756.0 [m]	DC	APT
4765.0 [m]	DC	APT
4774.0 [m]	DC	APT
4783.0 [m]	DC	APT
4792.0 [m]	DC	APT
4801.0 [m]	DC	APT
4810.0 [m]	DC	APT
4819.0 [m]	DC	APT
4828.0 [m]	DC	APT
4837.0 [m]	DC	APT
4846.0 [m]	DC	APT
4855.0 [m]	DC	APT
4864.0 [m]	DC	APT
4873.0 [m]	DC	APT
4882.0 [m]	DC	APT
4891.0 [m]	DC	APT
4900.0 [m]	DC	APT
4909.0 [m]	DC	APT
4918.0 [m]	DC	APT
4927.0 [m]	DC	APT
4936.0 [m]	DC	APT
4945.0 [m]	DC	APT
4954.0 [m]	DC	APT
4960.0 [m]	DC	APT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
352	NORDLAND GP
352	NAUST FM
1133	KAI FM
1298	HORDALAND GP
1298	BRYGGE FM
1989	ROGALAND GP
1989	TARE FM



2360	SHETLAND GP
2360	SPRINGAR FM
2446	NISE FM
2861	KVITNOS FM
3299	CROMER KNOLL GP
3299	LYSING FM
3367	LANGE FM
3646	NO FORMAL NAME
3841	LYR FM
3850	VIKING GP
3850	SPEKK FM
3884	MELKE FM
3960	NOT FM
3992	ILE FM
4116	NOT FM
4121	ILE FM
4124	MELKE FM
4148	NOT FM
4184	ILE FM
4333	BÅT GP
4333	ROR FM
4483	TILJE FM
4717	ÅRE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT SON SCAN PEX APT	3518	4960
MDT XLD	4219	4912
MDT XLD SATURN	4215	4873
MSCT GR	3763	4847
MWD - ARC8 TELE 825	3526	4960
PEX150 AIT XPT	3518	4960
XL ROCK GR	4319	4912

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	402.0	36	403.0	0.00	
		1089.0		1089.0	1.62	FIT
SURF.COND.	13 3/8	1110.7	17 1/2	0.0	0.00	
LINER	9 5/8	3518.2	12 1/4	3526.0	1.83	FIT
OPEN HOLE		4960.0	8 1/2	4960.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1133	1.57	26.0		XP-07	
3235	1.58	10.0		XP-07	
3379	1.57	26.0		XP-07	
3379	1.64	39.0		XP-07	
3526	1.58	11.0		XP-07	
3538	1.64	40.0		XP-07	
3644	1.61	23.0		XP-07	
4548	1.62	30.0		XP-07	
4780	1.64	32.0		XP-07	
4960	1.64	34.0		XP-07	