



Generell informasjon

Brønnbane navn	6607/12-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6607/12-3
Brønn navn	6607/12-3
Seismisk lokalisering	3D survey MC3D NON 2010.inline 3053 & xline2972
Utvinningstillatelse	385
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1418-L
Boreinnretning	WEST ALPHA
Boredager	66
Borestart	22.10.2012
Boreslutt	26.12.2012
Frigitt dato	26.12.2014
Publiseringsdato	11.03.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LANGE FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	ILE FM
3. nivå med hydrokarboner, alder	EARLY JURASSIC
3. nivå med hydrokarboner, formasjon	ÅRE FM
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	363.0
Totalt målt dybde (MD) [m RKB]	4306.0
Totalt vertikalt dybde (TVD) [m RKB]	4305.0
Maks inklinasjon [°]	5.2



Temperatur ved bunn av brønnbanen [°C]	159
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	66° 9' 37.23" N
ØV grader	7° 56' 34.01" E
NS UTM [m]	7338371.01
ØV UTM [m]	452317.27
UTM sone	32
NPDID for brønnbanen	7039

Brønnhistorie

**General**

Well 6607/12-3 was drilled on the Jette prospect on the Dønna Terrace in the Norwegian Sea. The reservoir was assumed to be of a stacked type with several sealed reservoir levels. The primary objectives were to prove an economical hydrocarbon volume in the Jette structure, prove resources in all reservoirs and encounter the hydrocarbon-water contacts.

Operations and results

Wildcat well 6607/12-3 was spudded with the semi-submersible installation West Alpha on 22 October 2012. During drilling 26" section a water kick with possible gas was taken at 1033 m. This resulted in a technical sidetrack at 769 m and a 20" casing was set at 985.2 m before the BOP and riser were connected. Further drilling proceeded without significant problems to TD at 4306 m in the Early Jurassic Åre Formation. The well was drilled with seawater and bentonite sweeps down to 990 m, with Performadril Spec 6a mud from 990 m to 2109 m, and with XP-07 Spec 14a oil based mud from 2109 m to TD.

Gas was present in 4.3 m net pay sandstone stringers around 3781 m (Cenomanian) in the Lange Formation. The expected Garn Formation was not present in this well. The Ile Formation was encountered at 3996.6 m and contained gas. The gas/water contact was indicated at 4003 m based on Log data and PVT samples. Tofte Formation was encountered at 4140.8 m and had some shows, but was water bearing according to petrophysical analyses. Top Tilje was encountered at 4171.8 m. The uppermost interval consisted of inter-bedded claystone/sandstone with poor reservoir quality. However, at approximately 4205 m, a more "clean" sandstone interval was encountered. This sandstone was water bearing as well. The Åre Formation had one meter gas-bearing sandstone at 4283 m. Hydrocarbon shows (fluorescence) were described in the Ile Formation from 3995 to 4054 m, in the Tofte Formation from 4138 m to 4162 m, and in the Båt Group from 4225 m to 4255 m, otherwise no oil shows were seen in the well.

Two cores were cut. Core 1 was cut from 4001 m to 4055 m in the Ile Formation with 97% recovery. Core 2 was cut in the Tilje Formation from 4204 m to 4258 m cores were cut and no wire line logs were run in the well. MDT fluid samples were taken at 3778.8 m in the Lange Formation (gas), 3996.5 m in the Ile Formation (gas), 4088 m in the Ile Formation (water), and at 4283 m in the Åre Formation (gas).

The well was permanently abandoned on 26 December 2012 as a gas discovery

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1000.00	4305.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4001.0	4054.9	[m]
2	4204.1	4257.4	[m]

Total kjerneprøve lengde [m]	107.2
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		0.00	0.00	CONDE NSATE		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
381	NORDLAND GP
381	NAUST FM
1348	KAI FM
1644	HORDALAND GP
1644	BRYGGE FM
1798	ROGALAND GP
1798	TARE FM
1900	TANG FM
1940	SHETLAND GP
1940	SPRINGAR FM
2122	NISE FM
2783	KVITNOS FM
2982	CROMER KNOLL GP
2982	LYSING FM
3005	LANGE FM
3837	LYR FM
3855	VIKING GP
3855	MELKE FM
3946	FANGST GP



3946	NOT FM
3997	ILE FM
4113	BÅT GP
4113	ROR FM
4141	TOFTE FM
4164	ROR FM
4172	TILJE FM
4271	ÅRE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT LDS APS HNGS GR	3950	4309
CMR	3905	4306
MDT	3277	3806
MDT	3960	3997
MDT	3964	4296
MDT DP	3996	4283
MSIP	3850	4306
MWD - DVDM6 TELE	4258	4306
MWD - ECOSCOPE	4001	4204
MWD - PDX5 ARCVRES TELE VSON	990	3898
MWD -ECOSCOPE STETHOSCOPE	3998	4001
SBT	2100	3896

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	444.0	36	450.0	0.00	
SURF.COND.	20	985.0	26	990.0	1.57	FIT
INTERM.	14	2100.0	17 1/2	2109.0	1.76	FIT
INTERM.	9 5/8	3896.0	12 1/4	3898.0	1.88	FIT
OPEN HOLE		4306.0	8 1/2	4306.0	0.00	

Boreslam



Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1000	1.50	37.0		Performadril	
1050	1.31	14.0		Performadril	
1640	1.42	39.0		Performadril	
1747	1.43	41.0		Performadril	
1803	1.50	51.0		Performadril	
2109	1.50	51.0		Performadril	
2242	1.55	29.0		XP-07 - #14	
3246	1.67	29.0		XP-07 - #14	
3467	1.64	39.0		XP-07 - #14	
3898	1.78	34.0		XP-07 - #14	
3898	1.80	35.0		XP-07 - #14	
3919	1.78	33.0		XP-07 - #14	
4001	1.78	34.0		XP-07 - #14	
4222	1.67	27.0		XP-07 - #14	
4306	1.67	27.0		XP-07 - #14	

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]
7039_Formation_pressure_(Formasjonstrykk)	PDF	0.27

