



Generell informasjon

Brønnbane navn	6407/1-7 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6407/1-7 (Solberg)
Brønn navn	6407/1-7
Seismisk lokalisering	ST0614WIR10 inline 8016&xline3002
Utvinningstillatelse	475
Boreoperatør	Wintershall Norge AS
Boretillatelse	1516-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	29
Borestart	22.03.2014
Boreslutt	20.04.2014
Frigitt dato	20.04.2016
Publiseringsdato	20.04.2016
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	NO FORMAL NAME
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	281.0
Totalt målt dybde (MD) [m RKB]	3602.0
Totalt vertikalt dybde (TVD) [m RKB]	3342.0
Maks inklinasjon [°]	52
Eldste penetrerte alder	EARLY CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	64° 57' 44.68" N
ØV grader	7° 14' 6.28" E
NS UTM [m]	7205608.56



ØV UTM [m]	416659.43
UTM sone	32
NPDID for brønnbanen	7436

Brønnhistorie

General

Well 6407/1-7 A is a geological sidetrack to the 6407/1-7 Solberg well in the southern part of the Grinda Graben in the Norwegian Sea. The 6407/1-7 well bores were drilled to test the continuation of the 6407/1-6 S Rodrigues Lange discovery. The primary well 6407/1-7 proved gas condensate in intra-Lange Formation sandstone. The objective of sidetrack 6407/1-7 A is to investigate the continuation of these sandstones to a position where the seismic amplitude anomaly is weaker.

Operations and results

Wildcat well 6407/1-7 A was kicked off from 6407/1-7 at 2519 m on 22 March 2014. It was drilled with the semi-submersible installation Borgland Dolphin to TD at 3602 m (3342 m TVD) in the Early Cretaceous Lange Formation. Drilling to TD and logging proceeded without significant problems but during plugging back for P&A BOP problems and WOW caused some NPT. The well was drilled with Carbosea oil based mud from kick-off to TD.

6407/1-7 A was drilled 500 m west of the main bore and penetrated an intra-Lange Formation sandstone between 3442.5 to 3459.5 (3235.6 to 3246.8 m TVD). The net thickness of the reservoir is 8 m with a porosity of 15.1% and a water saturation of 19.4%. The permeability varies from poor to excellent, with a range from below one mD to several hundred mD. The fluid in 6407/1-7 and -7 A is similar to what was found in the 6407/1-6 S. However, the pressure data shows that there is a 3.2 bar difference between Lange Formation sandstones in 6407/1-6 S and 6407/1-7/6407/1-7 A. No oil shows above the OBM was described in 6407/1-7 A.

One core was cut from 3443 to 3462 m with 97% recovery. No fluid sample was taken.

The well was permanently abandoned on 20 April 2014 as a gas/condensate appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2530.00	3602.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3443.0	3461.4	[m]

Total kjerneprøve lengde [m]	18.4
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
312	NORDLAND GP
541	NAUST FM
1414	KAI FM
1825	HORDALAND GP
1825	BRYGGE FM
2125	ROGALAND GP
2125	TARE FM
2212	TANG FM
2270	SHETLAND GP
2270	SPRINGAR FM
2424	NISE FM
2663	KVITNOS FM
3033	CROMER KNOLL GP
3033	LYSING FM
3066	LANGE FM
3443	NO FORMAL NAME
3461	LANGE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL CN ZDL ORIT XMAC HDIL	2511	3602
MWD LWD - DIR	312	510
MWD LWD - DIR GR RES SON ND	3462	3602
MWD LWD - GR RES DIR	390	510
MWD LWD - GR RES DIR SON	510	2511



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
OPEN HOLE		3602.0	8 1/2	3602.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
1637	1.69	57.0		Carbosea OBM	
2535	1.67	48.0		Carbosea OBM	
2900	1.69	37.0		Carbosea OBM	
3462	1.69	42.0		Carbosea OBM	
3602	1.68	56.0		Carbosea OBM	
3602	1.69	57.0		Carbosea OBM	