



Generell informasjon

Brønnbane navn	6707/10-2 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6707/10-2 A
Brønn navn	6707/10-2
Seismisk lokalisering	BPN9601STR07-inline 1823-x-line 2312
Utvinningstillatelse	218
Boreoperatør	StatoilHydro ASA
Boretillatelse	1199-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	49
Borestart	14.10.2008
Boreslutt	01.12.2008
Frigitt dato	01.12.2010
Publiseringsdato	01.12.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	KVITNOS FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	1248.0
Totalt målt dybde (MD) [m RKB]	4850.0
Totalt vertikalt dybde (TVD) [m RKB]	4325.0
Maks inklinasjon [°]	53.5
Temperatur ved bunn av brønnbanen [°C]	109
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	KVITNOS FM
Geodetisk datum	ED50
NS grader	67° 2' 48.8" N



ØV grader	7° 3' 38.3" E
NS UTM [m]	7438113.36
ØV UTM [m]	415608.90
UTM sone	32
NPDID for brønnbanen	5931

Brønnhistorie

General

The 6707/10-2 A Haklang West flank well is a sidetrack from well 6707/10-2 S. The surface well location is ca 3.5 km south-east of the 6707/10-1 Luva Discovery on the Nyk High in the Northern Norwegian Sea. The objective of the Haklang West flank well was to prove hydrocarbon in the Nise 2 sandstone.

Operations and results

Wildcat well 6707/10-2 A was kicked off on 13 October 2008 from the original wellbore 6707/10-2 S at 3110 m MD, below the 9 5/8" liner shoe. It was drilled to TD at 4850.0 m (4325.0 m TVD) in the Late Cretaceous Kvitnos Formation. No significant technical problem was encountered in the operations. The well was drilled with Versatec DW oil-based mud from kick-off to TD.

The well penetrated the reservoir, the Kvitnos Formation, at 4426.0 m (4055.0 m TVD RKB). This reservoir was expected to be a part of the Nise Formation before drilling of the well (Nise 2 sandstone). Based on the biostratigraphy results, the stratigraphy was changed. Dry gas was proven, and the reservoir properties were moderately good (Net/Gross is 0.67 and a porosity of 0.17). The GWC was defined at 4487.0 m (4092.0 m TVD RKB) giving a gas column of 37.0 m. The 6707/10-2 A was drilled with oil-based mud, and the oil base had a weak fluorescence that made detection of natural petroleum fluorescence difficult.

Two cores were cut at 4434 to 4488 m in the Kvitnos Formation reservoir. Two separate MDT runs were performed. One intermediate run with MDT on wire line obtained samples from depths 3317.7 m (3303.8 m TVD RKB) and 3350.0 m (3333.7 m TVD RKB). Water was the moveable fluid obtained at both depths. The second MDT run was run on TLC. Two sampling depths and one scanning station were performed. At 4483.0 m MD/4089.6 m TVD gas was the movable fluid and at 4615.0 m MD/ 4169.0 m TVD water was the movable fluid. For the scanning station at 4489 m MD slugs of

water was observed and no samples were obtained at this depth.

The well permanently abandoned on 3 December 2008. It is a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
3110.00	4850.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4434.0	4461.0	[m]
2	4461.0	4487.8	[m]

Total kjerneprøve lengde [m]	53.8
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1271	NORDLAND GP
1271	NAUST FM
2068	KAI FM
2096	HORDALAND GP
2096	BRYGGE FM
2189	ROGALAND GP
2189	TARE FM
2224	TANG FM
2294	SHETLAND GP
2294	SPRINGAR FM
3129	NISE FM
4426	KVITNOS FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX DSI HNGS	4112	4826
MDT	3317	3350
MDT - MINI DST	3966	4807
MWD - ARCVRES6 TELESCOPE	3110	3288
MWD - ECOSCOPE TELESCOPE VSONIC6	3288	4850
VSI-4	2013	4530



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		4850.0	8 1/2	4850.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1440	1.18	16.0		Glydril	
3112	1.17	14.0		Versatec	
3288	1.18	15.0		Versatec	
3983	1.20	15.0		Versatec	
4461	1.20	15.0		Versatec	
4486	1.23	16.0		Versatec	
4488	1.23	16.0		Versatec	
4850	1.29	21.0		Versatec	
4850	1.26	17.0		Versatec	

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]
5931 Formation pressure (Formasjonstrykk)	pdf	0.29

