



Generell informasjon

Brønnbane navn	6507/5-6 S
Type	EXPLORATION
Formål	APPRAISAL
Status	PLUGGED
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	SKARV
Funn	6507/5-3 Ærfugl
Brønn navn	6507/5-6
Seismisk lokalisering	Survey BP 0501-R8-inline 1214 & crossline 1374 Enterypoint mudline
Utvinningstillatelse	212
Boreoperatør	BP Norge AS
Boretillatelse	1294-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	148
Borestart	12.01.2010
Boreslutt	08.06.2010
Plugget dato	08.06.2010
Frigitt dato	08.06.2012
Publiseringsdato	08.06.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LYSING FM
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	325.0
Totalt målt dybde (MD) [m RKB]	4991.0
Totalt vertikalt dybde (TVD) [m RKB]	2907.0
Maks inklinasjon [°]	70.8
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50



NS grader	65° 44' 19.36" N
ØV grader	7° 39' 20.52" E
NS UTM [m]	7291629.85
ØV UTM [m]	438363.83
UTM sone	32
NPDID for brønnbanen	6321

Brønnhistorie

General

Well 6507/5-6 S was drilled from the Skarv A template on the Revfall Fault Complex in the Norwegian Sea. The objective of the well was to prove gas in Late Cretaceous reservoir rocks (the Lysing formation) in the Snadd North prospect. It was drilled primarily for data acquisition to identify the presence and producability of the Lysing reservoir, with the well path planned for optimal data recovery, but the well was also planned to be used as a producer.

Operations and results

Exploration well 6507/5-6 S was spudded with the semi-submersible installation Borgny Dolphin on 12 January 2010. The well was drilled as the fourth well in the batch drilling operations for the 17 1/2" and 12 1/4" sections on the Skarv A template. Initially the well was drilled to 4454 m. Then, due to hole instability and operational problems, the well was plugged back and sidetracked from 2346.4 m after a core was taken in the reservoir. Reservoir logs are therefore primarily taken in the sidetrack T2. Final TD was reached at 4991 m (2906.7 m TVD) in Late Turonian age claystone in the Lange Formation. The well was drilled with seawater and hi-vis pills down to 1122 m and with Carbosea oil based mud from 1129 m to TD in both the main and sidetrack well bores.

The Lysing Formation was encountered at 4676 m (2798 m TVD). Good quality hydrocarbon-bearing sandstones were discovered. A total thickness of 32 m TVD of Lysing sandstone was drilled, with net/gross of 0.88 and average effective porosity of 0.21. The sandstones in the core were of mixed quality, predominantly medium-fine grained and hydrocarbon-stained. The reservoir was hydrocarbon bearing throughout. No oil shows were reported from the well.

One 18 m core was cut in Lysing Formation sandstone from 4436 m to 4454 m, in the main bore 6507/5-6 S. Gas condensate samples were taken with the RCI tool at 4737 m and at 4710.5 m in the sidetrack well bore.

The well was permanently abandoned on 8 June 2010 as a gas discovery.

Testing

No drill stem test was performed.

Reclassification

On 13 October 2017 the well was reclassified as an appraisal well for the discovery "6507/5-3 SNADD" from 2000.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1150.00	4990.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4436.0	4454.5	[m]

Total kjerneprøve lengde [m]	18.5
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
356	NORDLAND GP
356	NAUST FM
1476	KAI FM
2288	HORDALAND GP
2288	BRYGGE FM
2712	ROGALAND GP
2712	TARE FM
2842	TANG FM
2897	SHETLAND GP
2897	SPRINGAR FM
2930	NISE FM
4676	CROMER KNOLL GP
4676	LYSING FM
4772	LANGE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL GR CN TTRM 18 5/8	356	1080



MWD - CAL SON PRESSURE	0	0
MWD - DEN NEU CAL SON	2538	4426
MWD - DIR	356	446
MWD - GR RES ECD DIR	446	2548
MWD - GR RES ECD DIR-	2538	4426
MWD - GR RES ECD DIR DEN NEU-	0	0
SBT GR CCL 13 5/8	1100	2378

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	439.0	36	446.0	0.00	LOT
SURF.COND.	18 5/8	1136.0	24	1143.0	1.67	LOT
INTERM.	13 5/8	2538.0	17 1/2	2548.0	1.67	LOT
INTERM.	9 7/8	4679.0	12 1/4	4689.0	1.90	LOT
OPEN HOLE		4991.0	8 1/2	4881.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
349	1.03			SPUD MUD	
1144	1.05			SPUD MUD	
1529	1.50	41.0		OBM	
2548	1.51	33.0		OBM	
3413	1.58	36.0		OBM	
4183	1.58	35.0		OBM	
4430	1.60			Water	
4430	1.60			Water	
4430	1.20			Brine	
4436	1.60	36.0		OBM	
4570	1.60	38.0		OBM	
4991	1.60	35.0		OBM	
5017	1.53			Brine	
5017	1.50			Synthetic	

Tynnslip i Sökkeldirektoratet



Dybde	Enhet
4436.88	[m]
4438.73	[m]
4439.35	[m]
4441.34	[m]
4442.52	[m]
4445.95	[m]
4446.60	[m]
4448.30	[m]
4450.55	[m]
4452.36	[m]
4453.95	[m]

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]
6321 Formation pressure (Formasjonstrykk)	pdf	0.26

