



Generell informasjon

Brønnbane navn	6507/3-9 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	ÆRFUGL NORD
Funn	6507/3-9 S Ærfugl Nord
Brønn navn	6507/3-9
Seismisk lokalisering	EN 0804 IL 4175 & XL 3525
Utvinningstillatelse	212 E
Boreoperatør	BP Norge AS
Boretillatelse	1396-L
Boreinnretning	POLAR PIONEER
Boredager	45
Borestart	01.06.2012
Boreslutt	15.07.2012
Frigitt dato	15.07.2014
Publiseringsdato	09.12.2014
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LYSING FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	365.0
Totalt målt dybde (MD) [m RKB]	2964.0
Totalt vertikalt dybde (TVD) [m RKB]	2946.0
Maks inklinasjon [°]	13.2
Eldste penetrerte alder	EARLY CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	65° 56' 44.38" N
ØV grader	7° 41' 32.91" E



NS UTM [m]	7314658.11
ØV UTM [m]	440530.09
UTM sone	32
NPDID for brønnbanen	6951

Brønnhistorie

General

Well 6507/3-9 S was drilled on the Dønna Terrace in the Norwegian Sea, north of the Snadd Discovery and east of the Marulk field. Both Snadd and Marulk are gas discoveries in the Lysing Formation. The main objective in 6507/3-9 S was to prove gas in Late Cretaceous reservoir rocks (the Lysing formation) in the Snadd Outer prospect.

Operations and results

Wildcat well 6507/3-9 S was spudded with the semi-submersible installation Polar Pioneer on 1 June 2012 and drilled to TD at 2964 m (2946 m TVD) in the Early Cretaceous Lange Formation. A 9 7/8" pilot hole was drilled as a precautionary measure for shallow gas and/or water flow hazards. No shallow gas or water flow was observed. The well was drilled with spud mud and hi-vis sweeps down to 1216 m and with Carbo Sea oil based mud from 1216 m to TD.

Top of main target, Lysing Formation was encountered at 2849.3 m (2831.3 m TVD). The well proved gas in the Lysing formation with reservoir rocks and reservoir quality as expected. From high quality RCI pressure points and the CPI log, the gas/water contact was set at 2863.5 m (2845.5 m TVD). A high gas saturation was seen also in the Lysing sand below the contact. High mud gas readings were recorded in the upper part of the Kai Formation, but otherwise no shows reported other than in the Lysing Formation.

Two cores were cut in the interval 2850 to 2895 m in the Lysing and underlying Lange formations. RCI gas samples were taken at 2859.7 m and 2862 m. A water sample was taken at 2880.6 m.

The well was permanently abandoned on 15 July 2012 as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1220.00	2964.30

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2850.0	2866.1	[m]
2	2868.0	2895.6	[m]

Total kjerneprøve lengde [m]	43.7
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
388	NORDLAND GP
388	NAUST FM
1354	KAI FM
1766	HORDALAND GP
1766	BRYGGE FM
1894	ROGALAND GP
1894	TARE FM
1939	TANG FM
2005	SHETLAND GP
2005	NISE FM
2849	CROMER KNOLL GP
2849	LYSING FM
2884	LANGE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
EARTH IMAGER DIP	2820	2916
MWD - DIR	388	1216
MWD - GR RES DIR	388	1223
MWD - GR RES DIR CAL DEN NEU AC	1216	2964
RCI	2798	2928
VSP	1160	2945

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	472.0	42	477.0	0.00	
SURF.COND.	18 3/4	1209.0	24	1216.0	1.68	LOT
PILOT HOLE		1223.0	9 7/8	1223.0	0.00	
INTERM.	9 5/8	2056.0	12 1/4	2063.0	1.87	LOT
OPEN HOLE		2964.0	8 1/2	2964.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
388	1.05			Water	
477	1.05			Water	
1138	1.05			Water	
1216	1.30			Water	
1233	1.50			Synthetic	
2063	1.55			Oil	
2850	1.52			Oil	
2964	1.53			Oil	

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]
6951 Formation pressure (Formasjonstrykk)	pdf	0.27

