



Generell informasjon

Brønnbane navn	6507/5-8
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	SKARV
Funn	6507/5-3 Ærfugl
Brønn navn	6507/5-8
Seismisk lokalisering	MC3D-HVG2012MBPR16. Inlin 6858. Crossline 4674
Utvinningstillatelse	212
Boreoperatør	Aker BP ASA
Boretillatelse	1689-L
Boreinnretning	DEEPSEA STAVANGER
Boredager	32
Borestart	24.02.2018
Boreslutt	27.03.2018
Plugget og forlatt dato	27.03.2018
Frigitt dato	27.03.2020
Publiseringsdato	27.03.2020
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]	30.0
Vanndybde ved midlere havflate [m]	408.0
Totalt målt dybde (MD) [m RKB]	3690.0
Totalt vertikalt dybde (TVD) [m RKB]	3689.0
Maks inklinasjon [°]	4.9
Temperatur ved bunn av brønnbanen [°C]	126
Eldste penetrerte alder	EARLY CRETACEOUS



Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	65° 41' 58.46" N
ØV grader	7° 32' 23.19" E
NS UTM [m]	7287386.82
ØV UTM [m]	432948.05
UTM sone	32
NPDID for brønnbanen	8379

Brønnhistorie

General

Well 6507/5-8 was drilled to test the Kvitungen Tumler prospect on the Revfallet Fault Complex in the Norwegian Sea. The primary objective was to prove the reservoir and hydrocarbon potential in the Cretaceous Lange Formation. A secondary objective was to appraise the Ærfugl gas discovery (formerly known as Snadd) by acquiring a conventional core in the Lysing Formation and performing two firm wireline runs.

Operations and results

Wildcat well 6507/5-8 was spudded with the semi-submersible installation Deepsea Stavanger on 24 February 2018 and drilled to TD at 3690 m in the Early Cretaceous Lange Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1310 m and with Innovert oil-based mud from 1310 m to TD.

The Lysing Formation (Ærfugl discovery) was penetrated from 2800 to 2830 m and was confirmed to be gas-filled as expected. The Kvitungen Tumler reservoir was penetrated from 3440 to 3500 m. It consists of interbedded sandstones of Early Cenomanian to Late Albian age. The gross thickness of the reservoir was 80 m which of 40 m was net sand. The average porosity was 0.14, but the permeability was poor due to overgrowth of illite/chlorite. The formation was water wet, but residual oil was present

A core of 33 m comprising the entire Ærfugl reservoir interval was cut. MDT fluid samples were taken at 2827.07 m (gas) and 3485.01 m (water)

The well was permanently abandoned on 27 March 2018.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
530.00	3690.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2799.0	2833.3	[m]

Total kjerneprøve lengde [m]	34.3
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
438	NORDLAND GP
502	NAUST FM
1403	KAI FM
1818	HORDALAND GP
1818	BRYGGE FM
1990	ROGALAND GP
1990	TARE FM
2045	TANG FM
2088	SHETLAND GP
2088	SPRINGAR FM
2195	NISE FM
2582	KVITNOS FM
2800	CROMER KNOLL GP
2800	LYSING FM
2830	LANGE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL IMG	3030	3685
GR PRESSURE	2803	2827
GR PRESSURE	3165	3618
GR SWC	3122	3684
LWD - COREBIT	2797	2833



LWD - DIR PWD	408	520
LWD - DIR PWD GR ABRES	2417	2797
LWD - DIR PWD GR ABRES	2833	3035
LWD - DIR PWD GR RES	520	2417
LWD - DIR PWD GR RES DEN SON PR	3035	3690
SP GR DEN NEU CS SON AI	1900	3036
VSP	3054	3670

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	525.0	36	527.0	0.00	
SURF.COND.	20	1299.0	26	1310.0	1.63	FIT
INTERM.	13 3/8	2411.0	16	2417.0	1.63	FIT
INTERM.	9 5/8	3034.0	12 1/4	3035.0	0.00	
OPEN HOLE		3690.0	8 1/2	3690.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
30	1.39			Water	
525	1.03			Water	
525	1.39			Water	
549	1.20			Water	
762	1.25			Water	
1310	1.27			Water	
1477	1.49			Synthetic	
1947	1.50			Synthetic	
2417	1.46			Synthetic	
2417	1.51			Synthetic	
2450	1.45			Synthetic	
2796	1.46			Synthetic	
3034	1.49			Synthetic	
3035	1.52			Synthetic	
3035	1.49			Synthetic	
3100	1.52			Synthetic	



3690	1.63			Synthetic	
3690	1.52			Synthetic	