



Generell informasjon

Brønnbane navn	6307/1-1 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6307/1-1
Seismisk lokalisering	PGS14005: Inline 4063 crossline 4028
Utvinningstillatelse	830
Boreoperatør	Lundin Norway AS
Boretillatelse	1717-L
Boreinnretning	LEIV EIRIKSSON
Boredager	72
Borestart	18.10.2018
Boreslutt	28.12.2018
Plugget og forlatt dato	28.12.2018
Frigitt dato	28.12.2020
Publiseringsdato	28.12.2020
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	236.5
Totalt målt dybde (MD) [m RKB]	4114.0
Totalt vertikalt dybde (TVD) [m RKB]	3796.0
Geodetisk datum	ED50
NS grader	63° 55' 15.83" N
ØV grader	7° 18' 10.11" E
NS UTM [m]	7089500.42
ØV UTM [m]	416755.81
UTM sone	32
NPDID for brønnbanen	8523



Brønnhistorie

General

Well 6307/1-1 S was drilled to test the Silfari prospect in the Froan Basin in the Norwegian Sea. The primary exploration target for the well was to investigate the reservoir properties and the petroleum potential in Permian carbonate rocks (equivalent to the Wegner Halvø formation in the Late Permian at East Greenland). The secondary exploration target was to collect data for potential reservoirs in the Middle to Early Jurassic (the Fangst and Båt groups).

Operations and results

Wildcat well 6307/1-1 S was spudded with the semi-submersible installation Leiv Eiriksson on 18 October 2018 and drilled to TD at 4114 m in igneous rocks. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 329 m, with KCl/Polymer/GEM water-based mud from 329 to 923 m, with Baracarb High Performance water-based mud from 923 to 3119 m and with Baracarb HTHP water-based mud from 3119 m to TD.

The well encountered good reservoir sands in the targeted Jurassic formation but with no hydrocarbon indications. Pressure data showed a clear water gradient of 1.02 g/cc. in the Jurassic. The well penetrated top Triassic Grey Beds at 2775 m (2610.3 m TVD) and top Red Beds at 2839 m (2665.7 m TVD). The deepest section below 3385 m (3146.5 m TVD) consists of undated igneous rocks. The deep Permian target was thus not present, and no hydrocarbons were present in these rocks.

Numerous weak oil shows in the form of visible and/or fluorescing cut were recorded in the well, beginning at 1811 m in the Lange formation. The shows may have been influenced by mineral fluorescence and mud type.

One core was cut from 3473 to 3482.6 m with 55.2 % recovery. The core to log depth shift is 0.4 m. MDT water samples were taken at 2131.59 m.

The well was permanently abandoned on 28 December 2018 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
340.00	4114.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 17:21

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3473.0	3478.3	[m]

Total kjerneprøve lengde [m]	5.3
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
262	NORDLAND GP
262	NAUST FM
308	MOLO FM
537	HORDALAND GP
537	BRYGGE FM
1034	ROGALAND GP
1034	TARE FM
1147	TANG FM
1345	NO FORMAL NAME
1366	SHETLAND GP
1366	SPRINGAR FM
1421	NISE FM
1530	KVITNOS FM
1650	NO FORMAL NAME
1672	CROMER KNOLL GP
1672	NO FORMAL NAME
1809	LYR FM
1845	VIKING GP
1845	SPEKK FM
1872	MELKE FM
2080	FANGST GP
2080	ILE FM
2109	BÅT GP
2109	ROR FM
2126	TOFTE FM
2184	ROR FM
2227	TOFTE FM
2281	ROR FM



2325	TILJE FM
2433	ÅRE FM
2775	GREY BEDS (INFORMAL)
2839	RED BEDS (INFORMAL)
3385	UNDIFFERENTIATED

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR NEXT XPT	1777	3087
FMI MSIP	1756	3120
FMI MSIP	2960	4115
HRLA PEX HNGS	915	1758
HRLA PEX HNGS	1756	3080
HRLA PEX HNGS	3112	4107
MDT	2131	2131
MSCT	1317	1667
MSCT	1807	3076
MSCT	1984	2382
MWD LWD - GR PWD RES DIR AC	296	914
MWD LWD - PWD GR DIR	249	328
MWD LWD - RES GR PWD CAL DEN N A	1684	4113
MWD LWD - RES INC GR PWD DIR AC	860	1765
VSI	2541	4100
VSP	1200	3075
XLR	3154	4090
XLR	3312	3709
XPT NEXT CMR	3112	4105

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	328.8	42	328.8	0.00	
PILOT HOLE		621.0	9 7/8	621.0	0.00	
SURF.COND.	20	915.0	26	923.0	1.56	LOT
INTERM.	13 3/8	1756.9	17 1/2	1765.0	1.78	LOT



INTERM.	9 7/8	3112.3	12 1/4	3119.0	1.86	LOT
OPEN HOLE		4114.0	8 1/2	4114.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
235	1.20	15.0		KCL/Gem	
261	1.50	30.0		KCL/Gem	
620	1.03			Sea water	
725	1.45	27.0		HT WBM	
763	1.24	18.0		KCL/Gem/Polymer	
885	1.45	26.0		High Performance WBM	
923	1.45	30.0		High Performance WBM	
923	1.26	18.0		KCL/Gem/Polymer	
1140	1.45	25.0		High Performance WBM	
1677	1.45	25.0		High Performance WBM	
1765	1.39	27.0		High Performance WBM	
1765	1.45	23.0		High Performance WBM	
2051	1.40	27.0		High Performance WBM	
2292	1.39	29.0		High Performance WBM	
2432	1.40	27.0		High Performance WBM	
2540	1.39	29.0		High Performance WBM	
2886	1.45	25.0		HT WBM	
2886	1.30	18.0		HT WBM	
2969	1.39	29.0		High Performance WBM	
3119	1.30	20.0		HT WBM	
3119	1.40	20.0		High Performance WBM	
4113	1.30	18.0		HT WBM	