



Generell informasjon

Brønnbane navn	16/5-8 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	16/5-8 S (Goddo)
Brønn navn	16/5-8
Seismisk lokalisering	LN12M02R16. Inline 2805 Xline 2924
Utvinningstillatelse	815
Boreoperatør	Lundin Norway AS
Boretillatelse	1755-L
Boreinnretning	LEIV EIRIKSSON
Boredager	46
Borestart	08.07.2019
Boreslutt	22.08.2019
Plugget og forlatt dato	22.08.2019
Frigitt dato	22.08.2021
Publiseringsdato	10.11.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, formasjon.	BASEMENT
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	104.0
Totalt målt dybde (MD) [m RKB]	2468.0
Totalt vertikalt dybde (TVD) [m RKB]	2093.0
Geodetisk datum	ED50
NS grader	58° 43' 37.32" N
ØV grader	2° 21' 11.7" E
NS UTM [m]	6509987.84
ØV UTM [m]	462547.56
UTM sone	31
NPDID for brønnbanen	8704



Brønnhistorie

General

Well 16/5-8 S was drilled to test the Goddo prospect on the Utsira High in the North Sea. The primary objective was to prove hydrocarbons in porous/fractured basement below base Cretaceous and to verify pressure communication with the nearby Rolvsnes discovery.

Operations and results

Wildcat well 16/5-8 S was spudded with the semi-submersible installation Leiv Eiriksson on 8 July 2019 and drilled to TD at 2468 m (2093 m TVD) 268 m into granitic Basement rock. No shallow gas was identified in the site survey or while drilling the well. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 196 m, with KCl/polymer mud from 196 m to 620 m, and with BaraHib ECO water-based mud from 620 m to TD.

Top Basement was penetrated at 2201.7 m (1889.4 m TVD), underlying Valanginian age Åsgard Fm marls. The basement is porous and fractured with a ca 20-25 m oil column. Pressure data shows that the Goddo discovery is not in pressure communication with the Rolvsnes oil discovery. There were no oil shows outside of the hydrocarbon bearing fractured basement zone in the well.

Five continuous cores were cut in the interval 2192 to 2229.8 m. Recovery was 99 to 100% for all cores except core no 2 from 2201 to 2206 m, which had a recovery of 79.2%. The average core to log shift is estimated to +2.03 m with +1.76 m at the BCU /top Basement level in core no 1. Wire line FTNG fluid samples were taken at 2202.64 m (oil), 2205.38 m (oil), 2205.71 m (oil), 2246.16 m (water), and 2251.46 m (water). PVT analysis of the oil samples gave GOR around 150 Sm³/Sm³ and an oil density of ca 0.872 g/cm³.

The well was permanently abandoned on 22 August 2019 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
210.00	2468.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2192.0	2200.9	[m]
2	2201.0	2205.0	[m]
3	2206.0	2211.9	[m]
4	2211.9	2222.0	[m]
5	2222.0	2229.8	[m]

Total kjerneprøve lengde [m]	36.6
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
129	NORDLAND GP
129	NAUST FM
394	UNDIFFERENTIATED
803	UTSIRA FM
984	UNDIFFERENTIATED
1074	HORDALAND GP
1074	SKADE FM
1350	NO FORMAL NAME
1765	NO FORMAL NAME
1853	ROGALAND GP
1853	BALDER FM
1877	SELE FM
1915	LISTA FM
1976	VÅLE FM
1991	SHETLAND GP
1991	EKOFISK FM
2016	TOR FM
2125	HOD FM
2161	CROMER KNOLL GP
2161	RØDBY FM
2184	SOLA FM
2189	ÅSGARD FM
2202	BASEMENT



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR NEXT XPT GR	2009	2468
FMI MSIP GR	129	2468
FTNG GR	2201	2252
LWD - GR PWD RES DIR	171	604
LWD - GR PWD RES DIR AC	556	1411
LWD - GR RES PWD DIR	2009	2192
LWD - PWD GR DIR	128	184
LWD - RES GR PWD DIR D C N R IMG	2168	2468
LWD - RES GR PWD DIR DEN C NE AC	1313	2006
UBI HRLA PEX HNGS GR	2009	2463
VSI GR	406	2464
XLR GR	2018	2446

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	194.0	42	194.5	0.00	
SURF.COND.	20	620.0	26	620.0	1.50	FIT
INTERM.	13 3/8	1422.0	17 1/2	1422.0	1.90	FIT
LINER	9 5/8	2010.0	12 1/4	2010.0	1.87	LOT
OPEN HOLE		2468.0	8 1/2	2468.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
1	1.04	10.0		PHB	
1	1.39	16.0		Displacement / Kill mud	
141	1.04	10.0		PHB	
170	1.39	16.0		Displacement / Kill mud	
190	1.04	10.0		PHB	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 16:50

194	1.39	16.0		Displacement / Kill mud	
197	1.16	9.0		WBM	
255	1.23	17.0		WBM	
460	1.25	14.0		WBM	
513	1.30	25.0		WBM	
620	1.27	16.0		WBM	
620	1.37	16.0		WBM	
704	1.30	31.0		WBM	
1422	1.48	32.0		WBM	
1422	1.30	38.0		WBM	
1427	1.47	29.0		WBM	
1754	1.31	31.0		WBM	
1754	1.30	25.0		WBM	
1780	1.30	25.0		WBM	
1780	1.14	18.0		WBM	
2010	1.20	24.0		WBM	
2010	1.48	21.0		WBM	
2015	1.21	24.0		WBM	
2191	1.14	16.0		WBM	
2191	1.20	23.0		WBM	
2212	1.14	16.0		BaraHib	
2212	1.14	18.0		WBM	
2468	1.14	18.0		WBM	