



Generell informasjon

Brønnbane navn	16/1-31 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	EDVARD GRIEG
Funn	16/1-8 Edvard Grieg
Brønn navn	16/1-31
Seismisk lokalisering	LN09M02 Inline36234 xline1284283
Utvinningstillatelse	338
Boreoperatør	Lundin Norway AS
Boretillatelse	1766-L
Boreinnretning	LEIV EIRIKSSON
Boredager	43
Borestart	11.05.2019
Boreslutt	22.06.2019
Plugget og forlatt dato	22.06.2019
Frigitt dato	22.06.2021
Publiseringsdato	10.11.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, formasjon.	BASEMENT
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	111.0
Totalt målt dybde (MD) [m RKB]	2650.0
Totalt vertikalt dybde (TVD) [m RKB]	2002.6
Maks inklinasjon [°]	64.9
Eldste penetrerte alder	INDETERMINATE
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 51' 47.5" N
ØV grader	2° 18' 12.35" E



NS UTM [m]	6525178.00
ØV UTM [m]	459820.31
UTM sone	31
NPDID for brønnbanen	8758

Brønnhistorie

General

Well 16/1-31 A was drilled in the northern margin of the Edvard Grieg Field on the Utsira High in the North Sea. The primary objective was to appraise the reservoir quality, fluid properties, hydrocarbon potential and productivity of potential reservoir rocks on the eastward continuation of the Edvard Grieg basement high.

Operations and results

Appraisal well 16/1-31 A was spudded with the semi-submersible installation Leiv Eiriksson on 11 May 2019 and drilled to TD at 2650 m (2002.6 m TVD) m in granitic basement rocks. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1404 m, with Innover oil-based mud from 1404 m to 2267 m, and with Baradril N water-based mud from 2267 m to TD.

The Tellus East appraisal well encountered a gross oil column of 60 metres in porous, weathered basement reservoir. Top reservoir was encountered at 2350.1 m (1874.8 m TVD). The oil/water contact is estimated to be between 2492 and 2497 m (1935 and 1937 m TVD). No oil shows were observed above top reservoir. Partly continuous shows with petroleum odour, stain, cut, and direct fluorescence were seen in basement down to 2390 m. Below this depth sporadic shows were observed with direct and cut fluorescence, but without odour or stain down to 2460 m.

Three cores were cut in succession from 2357 to 2369.05 m with 85% total recovery. MDT pressure data indicated ca 4 bars depletion relative to the 16/1-13 Edvard Grieg well. MDT fluid samples were taken at 2351.51 m (oil), 2362.01 m (water), 2389.5 m (oil), 2410.4 m (oil), 2452.71 m (oil), 2492.70 m (oil and water), 2497.68 m (water), 2513.91 m (water), and 2538.0 m (water). The oil composition indicated same oil as in the Edvard Grieg oil population.

The well was permanently abandoned on 22 June 2019 as an oil appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
630.00	2649.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2357.0	2363.2	[m]
2	2363.2	2364.0	[m]
3	2365.8	2369.1	[m]

Total kjerneprøve lengde [m]	10.3
Kjerner tilgjengelig for prøvetaking?	YES

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
	0	0

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
INTERM.	13 3/8	1404.0	17 1/2	1397.0	0.00	
LINER	9 5/8	2267.0	12 1/4	2266.0	0.00	
OPEN HOLE		2650.0	8 1/2	2650.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
574	1.30	16.0		HP WBM	
1064	1.30	23.0		HP WBM	
1269	1.30	22.0		HP WBM	
1405	1.49	30.0		Yellow INNOVERT	
1936	1.50	32.0		Yellow INNOVERT	
2271	1.50	33.0		Yellow INNOVERT	
2271	1.12	13.0		BARADRIL-N	
2410	1.12	12.0		BARADRIL-N	
2650	1.12	13.0		BARADRIL-N	
2650	1.30	11.0		BARADRIL-N	

