



Generell informasjon

Brønnbane navn	16/1-15 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	16/1-15
Seismisk lokalisering	LN0902 R10 inline 1488 & crossline 5496
Utvinningstillatelse	338
Boreoperatør	Lundin Norway AS
Boretillatelse	1354-L
Boreinnretning	BREDFORD DOLPHIN
Boredager	38
Borestart	06.04.2011
Boreslutt	13.05.2011
Frigitt dato	13.05.2013
Publiseringsdato	13.05.2013
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY CRETACEOUS
1. nivå med hydrokarboner, formasjon.	INTRA ÅSGARD FM SS
2. nivå med hydrokarboner, alder	PRE-DEVONIAN
2. 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]	2175.0
Totalt vertikalt dybde (TVD) [m RKB]	2011.0
Maks inklinasjon [°]	34.5
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT



Geodetisk datum	ED50
NS grader	58° 52' 23.82" N
ØV grader	2° 15' 41.3" E
NS UTM [m]	6526327.33
ØV UTM [m]	457412.51
UTM sone	31
NPDID for brønnbanen	6593

Brønnhistorie

General

Well 16/1-15A is a sidetrack to Well 16/1-15, drilled on the western side of the Utsira High in the North Sea. The primary well proved Tellus to be a continuation of the Luno Discovery, now officially named the Edvard Grieg Field. The objectives of the geological sidetrack, 16/1-15 AT2, were to prove thicker, high productivity sandstone sequences to add to the Luno reserves, and to provide seismic calibration of complex stratigraphy.

Operations and results

Appraisal well 16/1-15 A was kicked off at 599 m in well 16/1-15 on 6 April 2011. It was drilled with the semi-submersible installation Bredford Dolphin. The 12 1/4" hole was drilled to TD at 2041 m. When running 9 5/8" casing it got differentially stuck forcing a new sidetrack. It is believed that the casing stuck in Grid Formation sandstone. The 16/1-15 A well bore was thus plugged back to the 20" casing and the technical sidetrack 16/1-15 AT2 was kicked off from 584 m and drilled to final TD at 2175 m (2011 m TVD) in Basement rocks. The sidetrack was drilled with Performadril mud from kick-off to TD.

Well 16/1-15 AT2 proved 1 meter thick Intra Åsgard Formation Sandstone at 2067 m, overlying fractured basement. The sandstone was oil bearing and the basement had shows, but in this well bore the basement was found to be cemented and was considered unproductive. Oil shows were first recorded on the cores in the Intra Åsgard Formation Sandstone. They continued on the cores into the underlying basement where they were generally restricted to fractures. Below the cored interval sporadic shows were seen on cuttings down to a depth of 2124 m (1967.6 m TVD).

Four short cores were cut from 2066 to 2076.26 m, across the Intra Åsgard Formation Sandstone and into the Basement. The recovery was 100% and the core-log depth shifts were less than 0.5 m. MDT fluid samples were taken at 2067.83 m (oil), 2070.61 m (oil), and 2051.05 m (water).

The well was permanently abandoned on 13 May 2011 as an oil appraisal well.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
610.00	2041.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2066.0	2070.8	[m]
2	2070.8	2074.1	[m]
3	2074.1	2075.1	[m]
4	2075.1	2076.3	[m]

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

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
136	NORDLAND GP
778	UTSIRA FM
876	NO FORMAL NAME
915	HORDALAND GP
952	SKADE FM
1285	NO FORMAL NAME
1598	GRID FM
1729	NO FORMAL NAME
1889	ROGALAND GP
1889	BALDER FM
1899	SELE FM
1920	LISTA FM
2026	VÅLE FM
2043	SHETLAND GP
2043	EKOFISK FM
2057	TOR FM



2064	HOD FM
2067	CROMER KNOLL GP
2067	ÅSGARD FM
2068	INTRA ÅSGARD FM SS
2069	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD LWD - GR RES DEN NEU AC PWD	545	2039

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.	9 5/8	2050.0	12 1/4	2051.0	1.50	LOT
OPEN HOLE		2175.0	8 1/2	2175.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1002	1.39	28.0		PERFORMADRIL	
1154	1.35	33.0		PERFORMADRIL	
1314	1.35	32.0		PERFORMADRIL	
1314	1.35	33.0		PERFORMADRIL	
1572	1.39	39.0		PERFORMADRIL	
2041	1.42	45.0		PERFORMADRIL	
2175	1.20	29.0		PERFORMADRIL	

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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.





Dokument navn	Dokument format	Dokument størrelse [KB]
6593 Formation pressure (Formasjonstrykk)	pdf	0.19

