



Generell informasjon

Brønnbane navn	16/1-30 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	SYMRA
Funn	16/1-29 S Symra
Brønn navn	16/1-30
Seismisk lokalisering	LN12M02R16 Inline: 4701 Xline: 4139
Utvinningstillatelse	167
Boreoperatør	Equinor Energy AS
Boretillatelse	1765-L
Boreinnretning	WEST PHOENIX
Boredager	18
Borestart	02.07.2019
Boreslutt	19.07.2019
Plugget og forlatt dato	19.07.2019
Frigitt dato	19.07.2021
Publiseringsdato	19.11.2021
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	JURASSIC
1. nivå med hydrokarboner, formasjon.	VIKING GP
2. nivå med hydrokarboner, formasjon	GRID FM
Avstand, boredekk - midlere havflate [m]	38.6
Vanndybde ved midlere havflate [m]	114.0
Totalt målt dybde (MD) [m RKB]	2075.0
Totalt vertikalt dybde (TVD) [m RKB]	1990.0
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 58' 50.71" N



ØV grader	2° 16' 50.88" E
NS UTM [m]	6538281.90
ØV UTM [m]	458655.69
UTM sone	31
NPDID for brønnbanen	8749

Brønnhistorie

Well 16/1-30 A Lille Prinsen Outer Wedge was drilled to appraise the 16/1-29 Lille Prinsen Discovery in the north-western part of the Utsira High in the North Sea. The structure was first tested by wells 16/1-6S and 16/1-6 A, which made the Verdandi Discovery in the Eocene Grid and the Paleocene Heimdal formations. The Lille Prinsen prospect is mapped in several geographically separate segments at Basement to Base Cretaceous level. These segments are: The Permian Main Carbonate Discovery penetrated by 16/1-29 S, the western Outer Wedge segment, and segments 2,3 and 5 (Carbonate upsides). The primary well 16/1-30 S found oil in Intra-Draupne Formation sandstone in the Outer Wedge segment. The objective of 16/1-30 A was to verify lateral reservoir distribution and quality of the Outer Wedge reservoir units.

Operations and results

Wildcat well 16/1-30 A is a geological side-track to 16/1-30 S. It was kicked off at 1307.2 m on 2. July 2019 with the semi-submersible installation West Phoenix and drilled to TD at 2075 m (1989 m TVD) m in Basement rock. Operations proceeded without significant problems. The well was drilled with Versatec oil-based mud from kick-off to TD.

Well 16/1-30 A encountered Viking Group sandstone and Basement Group granite reservoirs. Some shows were observed on the core chips from the Intra-Heather reservoir. MDT pressure points showed an oil gradient in Intra-Heather Formation sandstone down to 2031 m (1951.2 m TVD). Good shows with fluorescence odour and stain were recorded from top Intra-Heather Formation sandstone down to ca 2030 m. The log responses in Basement indicate the granite is oil filled at the top and water-bearing below ca 2045 m. However, MDT pressure logging gave no valid pressure points here (tight) and no shows were observed.

Two cores were cut. Core 1 was cut from 1993 to 2029 m with 92.3% recovery, capturing Shetland Group claystone and limestone and Intra-Heather Formation reservoir sandstone. The core-log depth shift is 2.3 m. Core 2 was cut from 2030 to 2039.46 m with 72.8% recovery, capturing basal Heather Formation claystone and granitic basement. The core-log depth shift is 4.5 m. MDT fluid samples were taken at 2026.5 m (oil with 6% OBM contamination) in Intra-Heather Formation sandstone.

The well was permanently abandoned on 19 July 2019 as an oil appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1310.00	2066.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1993.0	2030.0	[m]
2	2030.0	2039.5	[m]

Total kjerneprøve lengde [m]	46.4
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2004.0	[m]	C	CGG
2019.0	[m]	C	CGG
2022.0	[m]	C	CGG
2030.0	[m]	C	CGG
2036.0	[m]	C	CGG

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
150	NORDLAND GP
779	UTSIRA FM
1005	HORDALAND GP
1051	SKADE FM
1143	UNDIFFERENTIATED
1440	GRID FM
1550	UNDIFFERENTIATED
1812	ROGALAND GP
1812	BALDER FM
1874	SELE FM
1881	LISTA FM
1980	VÅLE FM
2003	SHETLAND GP
2008	VIKING GP



2008	HEATHER FM
2011	INTRA HEATHER FM SS
2035	HEATHER FM
2041	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX HNGS	1977	2065
CMR MDT	2005	2056
MWD LWD - TELE ARC	1978	2075
MWD LWD - XCEED ARC TELE	1307	1978
UIB MSIP	1977	2062

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	36	202.0	42	203.0	0.00	
SURF.COND.	20	567.0	36	572.0	0.00	
INTERM.	13 3/8	1300.0	16	1301.0	1.55	FIT
LINER	9 5/8	1977.0	12 1/4	1978.0	1.92	LOT
OPEN HOLE		2075.0	8 1/2	2075.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1960	1.09	14.0		Versatec	
2030	1.09	13.0		Versatec	
2075	1.09	14.0		Versatec	