



Generell informasjon

Brønnbane navn	16/5-7
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	16/5-7
Seismisk lokalisering	3D inline 2141. crossline 3265-LN12M02R16
Utvinningstillatelse	502
Boreoperatør	Equinor Energy AS
Boretillatelse	1768-L
Boreinnretning	TRANSOCEAN SPITSBERGEN
Boredager	31
Borestart	12.06.2019
Boreslutt	12.07.2019
Plugget og forlatt dato	12.07.2019
Frigitt dato	12.07.2021
Publiseringsdato	10.11.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	106.0
Totalt målt dybde (MD) [m RKB]	2028.0
Totalt vertikalt dybde (TVD) [m RKB]	2028.0
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 42' 12.13" N
ØV grader	2° 31' 8.81" E
NS UTM [m]	6507272.11
ØV UTM [m]	472133.50
UTM sone	31
NPDID for brønnbanen	8762



Brønnhistorie

General

Well 16/5-7 was drilled on the Klaff prospect on the basement high just west of the southern edge of the Johan Sverdrup field in the North Sea. The objective was to prove petroleum in graben fill of pre-Cretaceous age, with potential reservoir of Late Jurassic, Triassic or Permian age, or fractured and weathered basement.

Operations and results

Wildcat well 16/5-7 was spudded with the semi-submersible installation Transocean Spitsbergen on 12 June 2019 and drilled to TD at 2028 m, 112 m into basement rock. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1128 m and with KCl/polymer/GEM mud from 1128 to TD.

The Jurassic section was absent. Base of the Early Cretaceous Åsgard Formation rests unconformably on fractured and weathered basement rock at 1916 m. No shows were observed on drilled cuttings from well 16/5-7. Good oil shows (with fluorescence, cut, oil odour and stains) were observed from 1918 to 1940 m in the core chips from the first three cores. The log readings in Basement are hard to interpret as the granite is rather tight. Pressure points indicate an oil gradient, but fluid samples showed that the formation was water bearing. The measured gas was very low throughout the well, with less than 1% recorded.

Four cores were cut in the interval 1911 to 1949 m with 86.2% overall recovery. RCX fluid samples were taken at 1926 m (water), and 1934 m (water).

The well was permanently abandoned on 12 July 2019 as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1130.00	2028.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1911.0	1921.4	[m]
2	1926.3	1933.7	[m]
3	1933.7	1940.3	[m]



4	1940.6	1948.9	[m]
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Total kjerneprøve lengde [m]	32.8
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1130.0	[m]	DC	CGG
1190.0	[m]	DC	CGG
1250.0	[m]	DC	CGG
1310.0	[m]	DC	CGG
1370.0	[m]	DC	CGG
1430.0	[m]	DC	CGG
1480.0	[m]	DC	CGG
1500.0	[m]	DC	CGG
1520.0	[m]	DC	CGG
1540.0	[m]	DC	CGG
1560.0	[m]	DC	CGG
1580.0	[m]	DC	CGG
1600.0	[m]	DC	CGG
1720.0	[m]	DC	CGG
1760.0	[m]	DC	CGG
1780.0	[m]	DC	CGG
1800.0	[m]	DC	CGG
1820.0	[m]	DC	CGG
1855.0	[m]	DC	CGG
1858.0	[m]	DC	CGG
1861.0	[m]	DC	CGG
1864.0	[m]	DC	CGG
1867.0	[m]	DC	CGG
1870.0	[m]	DC	CGG
1873.0	[m]	DC	CGG
1876.0	[m]	DC	CGG
1879.0	[m]	DC	CGG
1882.0	[m]	DC	CGG
1885.0	[m]	DC	CGG
1888.0	[m]	DC	CGG
1891.0	[m]	DC	CGG



1894.0	[m]	DC	CGG
1897.0	[m]	DC	CGG
1900.0	[m]	DC	CGG
1903.0	[m]	DC	CGG
1906.0	[m]	DC	CGG
1909.0	[m]	DC	CGG

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
146	NORDLAND GP
779	UTSIRA FM
938	HORDALAND GP
1025	SKADE FM
1095	UNDIFFERENTIATED
1493	ROGALAND GP
1493	BALDER FM
1506	SELE FM
1531	LISTA FM
1561	VÅLE FM
1573	SHETLAND GP
1573	EKOFISK FM
1681	TOR FM
1771	HOD FM
1822	BLODØKS FM
1826	SVARTE FM
1841	CROMER KNOLL GP
1841	RØDBY FM
1906	SOLA FM
1908	ÅSGARD FM
1916	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FTX DSL FLX MRX	1700	2025
DSL CN ZDL XMAC RX MLL	100	2026
GR STAR HD UXPL	1840	2020



MWD LWD - DGR ADR PWC PCDC	1592	2028
MWD LWD - DGR EWR P4 PWD ABG PCD	1128	1592
MWD LWD - DGR EWR P4 PWD PCDC	212	1128
RCX EXL SP	1920	1934
VSP	70	1945

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	208.2	42	212.0	0.00	
SURF.COND.	13 3/8	1122.8	17 1/2	1128.0	1.58	FIT
LINER	9 5/8	1591.0	12 1/4	1592.0	1.55	FIT
OPEN HOLE		2028.0	8 1/2	2028.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
1592	1.20	14.0		KCl/Polymer/GEM	
1635	1.21	13.0		KCl/Polymer/GEM	
1837	1.16	11.0		KCl/Polymer/GEM	
1911	1.28	16.0		KCl/Polymer/GEM	
1911	1.16	13.0		KCl/Polymer/GEM	
1926	1.28	15.0		KCl/Polymer/GEM	
1940	1.30	17.0		KCl/Polymer/GEM	
2028	1.30	18.0		KCl/Polymer/GEM	