



Generell informasjon

Brønnbane navn	16/1-19 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	IVAR AASEN
Funn	16/1-9 Ivar Aasen
Brønn navn	16/1-19
Seismisk lokalisering	Survey LN 12M02 3D inline 2073 & xline 3768
Utvinningstillatelse	457
Boreoperatør	Wintershall Norge AS
Boretillatelse	1458-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	32
Borestart	13.08.2013
Boreslutt	25.10.2013
Plugget dato	23.09.2013
Plugget og forlatt dato	25.10.2013
Frigitt dato	25.10.2015
Publiseringsdato	25.10.2015
Opprinnelig formål	
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	113.0
Totalt målt dybde (MD) [m RKB]	1995.0
Totalt vertikalt dybde (TVD) [m RKB]	1984.0
Maks inklinasjon [°]	10.1
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 54' 24.39" N
ØV grader	2° 18' 14.14" E



NS UTM [m]	6530030.37
ØV UTM [m]	459899.46
UTM sone	31
NPDID for brønnbanen	7255

Brønnhistorie

General

Well 16/1-19 S was drilled on the Amol prospect about two and a half kilometres east of appraisal wells 16/1-16 and 16/1-16 A at the Ivar Aasen field, and about three kilometres north of the Edvard Grieg field in the central part of the North Sea. The primary objective was to prove petroleum in Early Cretaceous reservoir rocks (the Åsgard formation) in the western part of the Utsira High. The secondary target was to prove petroleum in fractured and/or weathered basement rocks.

Operations and results

Wildcat well 16/1-19 S was spudded with the semi-submersible installation Borgland Dolphin on 13 August 2013 and drilled to TD at 1995 in the Basement rock. A 9 7/8" pilot hole was drilled to 604 m without any indication of shallow gas. Operations were suspended twice to accommodate sidetrack operations on the Asha East prospect. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 604 m, with Carbo-Sea oil based mud from 604 m to 1862 m, and with Aquadril mud from 1862 m to TD.

The Åsgard Formation was encountered at 1878 m and proved to contain only half a metre of tight sandstone/clay stone. The fractured basement was encountered at 1891 m with oil in the fractures. Live oil was sampled from the fractures, but the reservoir quality was poorer than expected.

Three cores were cut in the interval 1865 to 1910 m with 100% recovery. RCI oil samples were taken at 1929.5 m. The samples proved a GOR in the range 106 to 135 Sm³/Sm³, an oil density of ca 0.857 g/cm³, and a gas gravity of ca 0.97 (air = 1).

The well was permanently abandoned on 25 October 2013 as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
610.00	1995.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1865.0	1895.2	[m]
2	1895.2	1903.5	[m]
3	1904.0	1910.3	[m]

Total kjerneprøve lengde [m]	44.8
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		1929.50	0.00	OIL		NO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
144	NORDLAND GP
144	UNDIFFERENTIATED
771	UTSIRA FM
811	HORDALAND GP
811	UNDIFFERENTIATED
901	SKADE FM
1501	GRID FM
1727	ROGALAND GP
1727	BALDER FM
1738	SELE FM
1763	LISTA FM
1845	SHETLAND GP
1845	EKOFISK FM
1878	CROMER KNOLL GP
1878	ÅSGARD FM
1891	BASEMENT



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL WGI MLL RTEX XMAC ZDL CN SL	73	1993
GR FLEX MREX	1851	1993
GR RCX SP	1887	1965
MWD - DIR	144	604
MWD - GR RES PWD SON DIR	215	1862
MWD - GR RES STTRSK DIR CAL DEN	1895	1995
VSP	337	1972

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	211.0	36	216.0	0.00	
SURF.COND.	13 3/8	597.0	17 1/2	604.0	1.45	LOT
INTERM.	9 5/8	1853.0	12 1/4	1862.0	1.70	FIT
OPEN HOLE		1995.0	8 1/2	1995.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
216	1.02			SW/PHB	
338	1.49	20.0		Kill Mud	
500	1.39	26.0		Carbosea	
1600	1.36	28.0		Carbosea	
1885	1.14	14.0		Aquadrill	
1995	1.15	20.0		Aquadrill	