



Generell informasjon

Brønnbane navn	6608/10-17 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	VERDANDE
Funn	6608/10-17 S Verdande
Brønn navn	6608/10-17
Seismisk lokalisering	ST11M01 inline 6070 xline 5106
Utvinningstillatelse	128
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1643-L
Boreinnretning	DEEPSEA BERGEN
Boredager	59
Borestart	04.12.2016
Boreslutt	31.01.2017
Plugget og forlatt dato	31.01.2017
Frigitt dato	31.01.2019
Publiseringsdato	22.03.2019
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LANGE FM
2. nivå med hydrokarboner, alder	CRETACEOUS
2. nivå med hydrokarboner, formasjon	LANGE FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	374.0
Totalt målt dybde (MD) [m RKB]	3323.0
Totalt vertikalt dybde (TVD) [m RKB]	3294.0
Maks inklinasjon [°]	14.7
Eldste penetrerte alder	EARLY CRETACEOUS



Eldste penetrerte formasjon	SPEKK FM
Geodetisk datum	ED50
NS grader	66° 4' 16.19" N
ØV grader	8° 3' 36.03" E
NS UTM [m]	7328347.00
ØV UTM [m]	457455.02
UTM sone	32
NPDID for brønnbanen	8065

Brønnhistorie

General

Well 6608/10-17 S was drilled to test the Cape Vulture prospects on the Revfallet Fault Complex, northwest of the Norne Field in the Norwegian Sea. The objective was to test the hydrocarbon potential in two turbiditic sandstones within the Early Cretaceous Lange Formation, called Cape Vulture Main and Cape Vulture Upper, respectively.

Operations and results

Wildcat well 6608/10-17 S was spudded with the semi-submersible installation Deepsea Bergen on 4 December 2016 and drilled to TD at 3323 m (3294 m TVD) in Early Cretaceous (Berriasian) shales belonging to the Spekk Formation. While drilling the 8 ½" section and during plug P&A, 31.5 days (53% of total operations) was spent waiting on weather. Otherwise operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1362 m and with XP-07 oil-based mud from 1362 m to TD.

The top of the Lange Formation was encountered at 2796 m (2767 m TVD), top Cape Vulture Upper at 2947 m (2918 m TVD), and top Cape Vulture Main at 2987 m (2959 m TVD). Both reservoirs contained hydrocarbons. In Cape Vulture Upper, there was an 8 m oil column, of which 5 m were in sandstone with moderate to good reservoir properties. In Cape Vulture Main, the well encountered a total oil column of about 5 m with an overlying gas column of about 13 m, of which 3 and 10 m, respectively, were in sandstone with moderate to good reservoir properties.

Fluorescence and cut were recorded on core chips from Cape Vulture main level, otherwise no conventional oil shows were reported from the well. However, Hydrocarbon Core Scanning identified very good shows to live oil in a thin sand at 3012 m below Cape Vulture Main. The resistivity log also indicates hydrocarbons in this sand as well as several thin sands from 2784 in the Lysing Formation and down to 3084 m in the Lange Formation.

One core was cut with 100% recovery from 2956 to 3037 m, covering the Cape Vulture Main in the Lange Formation. MDT fluid samples were taken at 2952.7 m (oil), 2992.2 m (gas/condensate), and 3002.7 m (oil).

The well was permanently abandoned on 31 January as 2017 as an oil and gas discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1370.00	3322.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2956.0	3037.2	[m]

Total kjerneprøve lengde [m]	81.2
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
398	NORDLAND GP
398	NAUST FM
1367	KAI FM
1625	HORDALAND GP
1625	BRYGGE FM
1881	ROGALAND GP
1881	TARE FM
1953	TANG FM
1981	SHETLAND GP
1981	SPRINGAR FM
2186	NISE FM
2659	KVITNOS FM
2779	CROMER KNOLL GP
2779	LYSING FM
2796	LANGE FM
3205	LYR FM
3311	VIKING GP
3311	SPEKK FM



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT MSIP PEX HNGS XPT	2550	3325
AIT NGI MDT PA	2762	3100
CMR ECS PEX AIT	2940	3037
MDT PA	3000	3005
MWD - GR	374	436
MWD - GR RES	436	3323
MWD - GR RES SON	1359	2643
VSI4	332	3325
XL ROCK	2790	2953

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	434.1	36	436.0	0.00	
INTERM.	13 3/8	1348.6	17 1/2	1359.0	1.58	FIT
INTERM.	9 5/8	2636.0	12 1/4	2643.0	1.77	FIT
OPEN HOLE		3323.0	8 1/2	3323.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
650	1.51	21.0		XP-07	
1359	1.54	20.0		XP-07	
1409	1.51	21.0		XP-07	
2392	1.62	28.0		XP-07	
2470	1.51	26.0		XP-07	
2652	1.55	34.0		XP-07	
2955	1.57	33.0		XP-07	
3030	1.62	28.0		XP-07	
3037	1.62	26.0		XP-07	
3037	1.57	28.0		XP-07	
3091	1.62	28.0		XP-07	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 08:50

3262	1.61	28.0		XP-07	
3322	1.62	31.0		XP-07	