



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 9.5.2024 - 10:05

Brønnbane navn	6603/5-1 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6603/5-1
Seismisk lokalisering	inline 3056/3048/3010 & crossline 2242
Utvinningstillatelse	392
Boreoperatør	A/S Norske Shell
Boretillatelse	1302-L
Boreinnretning	AKER BARENTS
Boredager	106
Borestart	06.09.2010
Boreslutt	20.12.2010
Frigitt dato	20.12.2012
Publiseringsdato	15.01.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	1452.0
Totalt målt dybde (MD) [m RKB]	5254.0
Totalt vertikalt dybde (TVD) [m RKB]	5068.0
Maks inklinasjon [°]	30.4
Temperatur ved bunn av brønnbanen [°C]	190
Eldste penetrerte alder	EARLY CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	66° 34' 33.21" N
ØV grader	3° 32' 46.05" E
NS UTM [m]	7384397.32
ØV UTM [m]	524227.52
UTM sone	31
NPDID for brønnbanen	6348



Brønnhistorie

General

Well 6603/5-1 S was a frontier exploration well which tested a high relief structure called Dalsnuten in the southern part of the Gjallar Ridge in the Norwegian Sea. The primary objective was to prove hydrocarbons in reservoirs beneath the interpreted Jurassic J2 and J5 intervals in the Dalsnuten prospect and establish the hydrocarbon phase. Secondary objective was to evaluate the reservoir potential of potential Late Cretaceous sands.

Operations and results

Wildcat well 6603/5-1 S was spudded with the semi-submersible installation Aker Barents on 6 September 2010 and drilled to TD at 5254 m (5068 m TVD) in the Early Cretaceous (Aptian) Lange Formation. A 9 7/8" pilot hole was drilled from 1587 m to 2320 m to check for shallow gas. No shallow gas was observed. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 2320 m, with Glydril mud from 2320 m to 3162 m, and with Paratherm oil based mud from 3162 m to TD.

The prospective Late Cretaceous Springar and Nise formations were penetrated from 2415 m to 3116 m, but consisted of claystone with only traces of siltstone and sandstone. The target J2 and J5 seismic horizons were penetrated and proved to be in Cenomanian and Aptian sediments, respectively. The Jurassic was not reached. The well was dry all through. There were no oil shows and the gas levels were not above background levels.

No conventional or sidewall cores were cut and no wire line fluid samples were taken. The maximum bottom hole temperature measured in the well was 184 deg C. This temperature was recorded on wire line at 5218 m, 68 hours after last circulation of mud. A second log run gave 182 deg C at 5184 m, 81 hours after circulation. From these two temperatures a true formation temperature of 190 +/- 5 deg C was estimated at TD. With - 1.8 deg C at sea floor this gives an average temperature gradient of 53 deg C/km through the well.

The well was permanently abandoned on 20 December 2010 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2330.00	5255.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1486	NORDLAND GP
1486	NAUST FM
1668	HORDALAND GP
1668	BRYGGE FM
2323	ROGALAND GP
2323	TARE FM
2365	TANG FM
2415	SHETLAND GP
2415	SPRINGAR FM
2813	NISE FM
3116	KVITNOS FM
3245	CROMER KNOLL GP
3245	LYSING FM
3744	LANGE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
6348_GCH_1	pdf	0.50
6348_GCH_2	pdf	1.59
6348_GCH_3	pdf	0.48

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MSIP PPC DSI GPIT HRLT PEX HNCS	2280	3164
MSIP PPC IS LDS APS HNCS GR	3570	5256
MWD - ARC	1585	3162
MWD - ARC SON VIS	1585	2320
MWD - ARC SON VIS SEISM	3162	3570
MWD - GR	1486	1585
MWD - PD ARC STET	3570	5254
VSI GR	1465	3157





VSI GR	3309	5244
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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	1582.0	36	1586.5	0.00	LOT
SURF.COND.	20	2312.0	26	2320.0	1.20	LOT
INTERM.	13 3/8	3156.0	17 1/2	3162.0	1.34	LOT
INTERM.	9 5/8	3568.0	12 1/4	3570.0	1.44	LOT
OPEN HOLE		5254.0	8 1/2	5254.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1502	1.03			Seawater	
1520	1.03			Seawater	
1526	1.03			Seawater	
2320	1.03			Seawater	
2426	1.12			Glydril	
3008	1.13			Glydril	
3162	1.13			Glydril	
3394	1.31			Paratherm	
3570	1.17			Paratherm	
3729	1.26			Paratherm	
4086	1.32			Paratherm	
5232	1.29			Paratherm	