



Generell informasjon





Brønnbane navn	6605/8-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6605/8-2
Seismisk lokalisering	NH0202R06&inline 4202 & crossline 4591
Utvinningstillatelse	283
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1181-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	61
Borestart	11.05.2008
Boreslutt	10.07.2008
Frigitt dato	10.07.2010
Publiseringsdato	01.08.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	818.0
Totalt målt dybde (MD) [m RKB]	4210.0
Totalt vertikalt dybde (TVD) [m RKB]	4196.0
Maks inklinasjon [°]	12.6
Temperatur ved bunn av brønnbanen [°C]	144
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	66° 18' 43.6" N
ØV grader	5° 31' 43.7" E
NS UTM [m]	7357177.73
ØV UTM [m]	613350.28
UTM sone	31
NPDID for brønnbanen	5812



Brønnhistorie

General

Well 6605/8-2 was drilled in 818 m water depth ca 6 km south-south west of the Stetind discovery well 6605/8-1 in the Vøring Basin of the Norwegian Sea. The main objective of the well was to prove and test hydrocarbons with focus on reservoir and production properties. The main target was sandstone of the Lysing Formation, estimated to be up to 70 m thick with significantly improved reservoir quality compared to the 6605/8-1 well. The well was drilled up-flank of the first well, with the aim to find improved reservoir quality. The well was the second exploration well to be drilled on the Stetind prospect.

Operations and results

Wildcat well 6605/8-2 was spudded with the semi-submersible installation Transocean Leader on 11 May 2008 and drilled to TD at 4210 m (4196 m TVD) in Late Turonian sediments of the Lange Formation. A 9 7/8" pilot hole was drilled to 2017.0 m in order to check for shallow gas or shallow water flow. Neither shallow gas nor shallow water flow was observed. No serious problems were experienced in the operations, but some deviation around 3000 m led to a slight difference between MD and TVD (14 m at TD). Further, the MDT tool got stuck after a mini DST. The well was drilled with seawater and hi-vis sweeps down to 1290 m, with seawater/hi-vis sweeps/Glydril mud from 1290 m to 2850 m, and with oil based Paratec mud from 2850 m to TD.

The well penetrated rocks of Quaternary, Tertiary and Cretaceous age. The sandstones of the Lysing Formation had a gross thickness of 39 m; net to gross is 50%, total porosity 15% and water saturation 90%. The reservoir was thinner and of poorer quality than prognosed. The prognosed up-dip improvement in reservoir quality compared to the Stetind-1 well was not proved.

Oil shows were as follows: Cut fluorescence with a faint petroleum odour was recorded at 2469 - 2505 m; good direct and cut fluorescence, and residual fluorescence was recorded at 2870 - 2874 m; rare traces of weak direct fluorescence were recorded at 3884 - 3893 m; and direct patchy (20%) fluorescence, no cut, was recorded at 3921 - 3922 m. fluorescence.

Three conventional cores were cut from 3893 to 3942 m in the Lysing Formation. MDT fluid samples were taken at 3897.5 m during a mini-DST. Due to sticking and fortunately successful fishing of the tool, the mini-DST gave the temperature readings with longest time since circulations, 96 hours or more (time before the MDT was fished out). This temperature was 135 deg C, measured at 3884.6 m TVD RKB, giving a gradient of 44.9 deg C/km, assuming -1.5 deg C at sea floor.

The well was permanently abandoned on 10 July 2008 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2020.00	4210.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3893.0	3920.6	[m]
2	3921.0	3928.2	[m]
3	3929.0	3941.8	[m]

Total kjerneprøve lengde [m]	47.5
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
841	NORDLAND GP
841	NAUST FM
1688	KAI FM
2010	HORDALAND GP
2010	BRYGGE FM
2300	ROGALAND GP
2300	TARE FM
2416	TANG FM
2671	SHETLAND GP
2671	SPRINGAR FM
2991	NISE FM
3261	KVITNOS FM
3886	CROMER KNOLL GP
3886	LYSING FM
4158	LANGE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
5812	pdf	0.53





Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5812_01_6605_8_1_gch_transfer_1	txt	0.00
5812_02_6605_8_2_gch_results_1	txt	0.20

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT DSI PEX ACTS ECRD	3400	4010
DSI HRLA PEX	2004	2825
MDT (EDTA GR ACTS ECRD)	3886	4034
MDT (MRCS MRPO MRPA MRPS MRHY	3886	4034
MDT (MRPO LFA MRSC MRMS MRPC	3886	4034
MWD - ARC	937	2017
MWD - ARC	2010	2850
MWD - ARC	3715	4210
MWD - ARC SON	2850	3715
MWD - DIR	841	937
MWD - DIR PWD	937	2010
ZO VSP	1640	4130

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	931.0	36	932.0	0.00	LOT
SURF.COND.	20	2004.0	26	2004.0	0.00	LOT
INTERM.	13 3/8	2839.0	17	2847.0	1.49	LOT
INTERM.	9 5/8	3713.0	12 1/4	3715.0	1.73	LOT
OPEN HOLE		4210.0	8 1/2	4210.0	1.83	LOT

Boreslam





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 19.5.2024 - 03:18

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
934	1.35	19.0		Glydril	
1100	1.40	24.0		Glydril	
1290	1.35	17.0		Glydril	
2145	1.31	21.0		Glydril	
2385	1.32	23.0		Glydril	
2586	1.34	23.0		Glydril	
2650	1.34	22.0		Glydril	
2715	1.52	29.0		Paratec	
2719	1.37	25.0		Glydril	
2765	1.37	23.0		Glydril	
2804	1.37	21.0		Glydril	
2836	1.37	20.0		Glydril	
2850	1.40	22.0		Glydril	
2853	1.46	25.0		Paratec	
2859	1.46	25.0		Paratec	
2885	1.45	26.0		Paratec	
3120	1.45	26.0		Paratec	
3214	1.45	27.0		Paratec	
3353	1.45	24.0		Paratec	
3424	1.52	26.0		Paratec	
3565	1.52	28.0		Paratec	
3700	1.52	27.0		Paratec	
3715	1.52	27.0		Paratec	
3718	1.63	27.0		Paratec	
3745	1.68	27.0		Paratec	
3893	1.68	26.0		Paratec	
3893	1.68	26.0		Paratec	
3916	1.68	25.0		Paratec	
3922	1.68	25.0		Paratec	
3929	1.68	25.0		Paratec	
3941	1.68	26.0		Paratec	
3945	1.68	26.0		Paratec	
3990	1.68	26.0		Paratec	
4045	1.68	25.0		Paratec	
4100	1.68	25.0		Paratec	
4200	1.68	26.0		Paratec	
4210	1.68	26.0		Paratec	

