



Generell informasjon





Faktasider

Brønnbane / Leting

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Brønnbane navn	2/1-13 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	2/1-13
Seismisk lokalisering	inline 8340 & xline 20280
Utvinningstillatelse	299
Boreoperatør	Talisman Energy Norge AS
Boretillatelse	1212-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	121
Borestart	07.11.2008
Boreslutt	07.03.2009
Frigitt dato	03.01.2011
Publiseringsdato	03.01.2011
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	41.3
Vanndybde ved midlere havflate [m]	69.0
Totalt målt dybde (MD) [m RKB]	4435.0
Totalt vertikalt dybde (TVD) [m RKB]	4358.0
Maks inklinasjon [°]	21.4
Temperatur ved bunn av brønnbanen [°C]	161
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	56° 47' 9.5" N
ØV grader	3° 2' 29.72" E
NS UTM [m]	6293703.09
ØV UTM [m]	502541.05
UTM sone	31
NPDID for brønnbanen	5975

**Brønnhistorie****General**

Well 2/1-13 S was drilled on the TR3 prospect located on the south-western margin of the Hidra High, 14 km southwest of Gyda, 8 kilometres southwest of the Gyda South Field and 1.5 kilometres southwest of the closest well 2/1-11. The well was drilled in a more crestal position than 2/1-11. The primary target of the well was fluvial channel sands of the Triassic Skagerrak Formation. Secondary objective was the Bryne reservoir.

Operations and results

Well 2/1-13 S was spudded with the jack-up installation Maersk Guardian on 6 November 2008 and drilled to TD at 4435 m in the Triassic Skagerrak Formation. The 36" top hole was drilled to 214 m, followed by a 12 1/4" pilot hole to 620 m to check for shallow gas. Although some gas was encountered it was not of sufficient quantity or pressure to cause concern. Further drilling proceeded without significant problems down to TD in the 16" section at 2416 m. When running the 13 3/8" casing, it could not pass 2093 m. Due to well bore stability problems and the long rat hole left as a consequence of setting the casing shoe high, the well was sidetracked below the casing shoe. This technical sidetrack, 2/1-13 ST2, was drilled to final TD. The well was drilled with Pre-hydrated Bentonite/CMC/seawater down to 620 m, with Versatec oil based mud from 620 m to 4149 m, and with Warp HTHP oil based mud from 4149 m to TD.

The top of the reservoir was encountered 63 m shallower than prognosed, at 4241 m (4124 m TVD SS) and had 1m of possible pay in sandstones in the interval 4252 to 4276 m. Shows were seen throughout this interval. No OWC was recognised on the logs, but ODT was at 4362 m (4152.0 m TVD SS). The stratigraphy of the reservoir is somewhat uncertain, but it is believed that the upper part down to 4362 m belong to the Bryne Formation, while the underlying sand belong to the Skagerrak Formation. The Skagerrak Formation was dry.

One core was cut in the Bryne Formation from 4274 to 4301 m. The RCI tool was run on wire line to take pressure points, but only the Skagerrak Formation gave valid pressures, proving a water gradient of 1.05 sg. The Bryne Formation proved to be tight. No fluid samples were taken.

The well was permanently abandoned on 7 March 2008 as a dry well with oil and gas shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
250.00	2410.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4274.0	4301.1	[m]

Total kjerneprøve lengde [m]	27.1
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4183.0	[m]	DC	APT
4195.0	[m]	DC	APT
4204.0	[m]	DC	APT
4213.0	[m]	DC	APT
4222.0	[m]	DC	APT
4231.0	[m]	DC	APT
4240.0	[m]	DC	APT
4249.0	[m]	DC	APT
4258.0	[m]	DC	APT
4274.0	[m]	DC	APT
4435.0	[m]	DC	APT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
110	NORDLAND GP
1875	HORDALAND GP
3092	ROGALAND GP
3092	BALDER FM
3116	SELE FM
3123	LISTA FM
3151	VIDAR FM
3254	LISTA FM
3290	VÅLE FM
3308	SHETLAND GP
3308	EKOFISK FM



3422	TOR FM
3824	HOD FM
4065	HIDRA FM
4115	CROMER KNOLL GP
4115	RØDBY FM
4137	SOLA FM
4149	TUXEN FM
4176	TYNE GP
4176	HAUGESUND FM
4241	VESTLAND GP
4241	BRYNE FM
4362	NO GROUP DEFINED
4362	SKAGERRAK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD LWD - DIR	214	620
MWD LWD - GR	110	214
MWD LWD - GR RES DIR	214	620
MWD LWD - GR RES DIR PWD DDS	620	2416

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	206.0	30	214.0	0.00	LOT
SURF.COND.	20	618.0	24	620.0	1.67	LOT
INTERM.	13 3/8	2077.0	16	2416.0	1.95	LOT
INTERM.	9 7/8	4142.0	12 1/4	4149.0	2.24	LOT
OPEN HOLE		4435.0	8 1/2	4435.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
41	1.49	15.0		Kill	
214	1.05	3.0		Bentonite / SW	



617	1.19	10.0		PHB/Sea water	
620	1.14	11.0		PHB/Sea water	
1150	1.74	46.0		OB Versatec	
1323	1.49	33.0		Versatec	
2177	1.54	39.0		Versatec	
2416	1.56	32.0		Versatec	
2416	1.56	32.0		Versatec	
2764	1.69	48.0		Versatec OBM	
4000	1.70	48.0		Versatec OBM	
4149	1.72	48.0		Versatec OBM	
4150	2.04	50.0		OB WARP	
4274	2.01	45.0		OB WARP	
4435	2.01	48.0		OB WARP	