



Generell informasjon

Brønnbane navn	3/8-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	3/8-1
Seismisk lokalisering	LN08M01 xline : 107246 & inline :46880
Utvinningstillatelse	400
Boreoperatør	Lundin Norway AS
Boretillatelse	1325-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	62
Borestart	29.10.2010
Boreslutt	29.12.2010
Frigitt dato	16.10.2012
Publiseringsdato	16.10.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	42.0
Vanndybde ved midlere havflate [m]	65.5
Totalt målt dybde (MD) [m RKB]	4070.0
Totalt vertikalt dybde (TVD) [m RKB]	4070.0
Maks inklinasjon [°]	1.6
Eldste penetrerte alder	EARLY PERMIAN
Eldste penetrerte formasjon	ROTLIEGEND GP
Geodetisk datum	ED50
NS grader	56° 27' 16.93" N
ØV grader	4° 25' 7.3" E
NS UTM [m]	6257730.03
ØV UTM [m]	587440.04
UTM sone	31
NPDID for brønnbanen	6476



Brønnhistorie

General

Well 3/8-1 was drilled on the Barchan prospect on the eastern side of the Søgne Basin in the North Sea, ca 3 km north of the Danish border. The primary objective was to prove reservoir potential and hydrocarbons in the Rotliegend Group of

the Barchan prospect. Secondary objectives were to test reservoir and hydrocarbon potentials in the Early Paleocene (Breeze lead) and in the Åsgard Formation (Bouma lead).

Operations and results

Wildcat well 3/8-1 was spudded with the jack-up installation Mærsk Guardian on 29 October 2010 and drilled to TD at 4070 m in the Permian Rotliegend Group. A precautionary 9 7/8" pilot hole was drilled from the 30" conductor shoe at 186 m down to 1203 m, below the 13 3/8" casing setting depth. No shallow gas was seen, but mud losses occurred in intervals from 186 m and from 403 m. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1203 m and with Versatec oil based mud from 1203 m to TD.

The well was found to be dry. Oil based mud made shows evaluation problematic but it was concluded that no significant hydrocarbon shows existed in the well. The low level of heavy gas components (butanes and pentanes) throughout the well supported the shows evaluation. The Early Paleocene Våle Formation was encountered at 2744 m and sands were present but water bearing. The Åsgard Formation was encountered at 3208 m but proved to be shale prone. The Rotliegend Group within the Barchan prospect was encountered at 4020.5 m. The Rotliegend was of poor (non-) reservoir quality and without hydrocarbon shows. In addition, the overlying halite of the Zechstein Group was found to be much thicker than prognosed.

Due to dry hole and lack of reservoirs no cores were cut and no wire line logs were run. Consequently no wire line fluid samples were taken.

The well was permanently abandoned on 29 December 2010 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
200.00	4070.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
108	NORDLAND GP
1215	HORDALAND GP
2643	ROGALAND GP
2643	BALDER FM
2665	SELE FM
2683	LISTA FM
2719	TY FM
2744	VÅLE FM
2762	SHETLAND GP
2762	EKOFISK FM
2824	TOR FM
2961	HOD FM
3114	HIDRA FM
3130	CROMER KNOLL GP
3130	SOLA FM
3162	TUXEN FM
3208	ÅSGARD FM
3286	TYNE GP
3286	MANDAL FM
3305	FARSUND FM
3465	HAUGESUND FM
3563	ZECHSTEIN GP
4019	KUPFERSCHIEFER FM
4021	ROTLIEGEND GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
6476_01_3_8_1_gch_transfer_1	txt	0.00
6476_01_3_8_1_gch_transfer_2	txt	0.00
6476_02_3_8_1_gch_results_1	txt	0.10
6476_02_3_8_1_gch_results_2	txt	0.13





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - PUP RCO GVR SON	3042	4064
MWD - PUR ARC GVR SON SADN	1164	3056
MWD - TELE	93	1199
MWD - TELE ARC VIS	179	1199

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	186.0	36	194.0	0.00	LOT
SURF.COND.	13 3/8	1196.0	17 1/2	1203.0	1.93	LOT
PILOT HOLE		1203.0	9 7/8	1203.0	0.00	LOT
INTERM.	9 5/8	3062.0	12 1/4	3068.0	1.87	LOT
OPEN HOLE		4070.0	8 1/2	4070.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
194	1.07			Water	
260	1.09			Water	
1029	1.08			Water	
1203	1.14			Water	
1203	1.08			Water	
1703	1.58			Synthetic	
2827	1.50			Synthetic	
3068	1.50			Synthetic	
3168	1.64			Synthetic	
3339	1.62			Synthetic	
4060	1.62			Synthetic	