



Generell informasjon

Brønnbane navn	17/6-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	17/6-1
Seismisk lokalisering	TA0701 xline 3007 & inline 1400
Utvinningstillatelse	545
Boreoperatør	Norwegian Energy Company ASA
Boretillatelse	1330-L
Boreinnretning	WEST ALPHA
Boredager	34
Borestart	05.01.2011
Boreslutt	07.02.2011
Frigitt dato	13.11.2012
Publiseringsdato	13.11.2012
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	272.0
Totalt målt dybde (MD) [m RKB]	3065.0
Totalt vertikalt dybde (TVD) [m RKB]	3064.0
Maks inklinasjon [°]	2.4
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	58° 44' 15.46" N
ØV grader	3° 55' 34.93" E
NS UTM [m]	6511357.46
ØV UTM [m]	553627.98
UTM sone	31
NPDID for brønnbanen	6501



Brønnhistorie

General

Well 17/6-1 was drilled on the Svaneøgle prospect located in the Ling Depression in the North Sea. The primary objective was to test the hydrocarbon potential of the Middle Jurassic Sandnes and Bryne Formations. Secondary objectives were to prove sand development and hydrocarbons in the Upper Jurassic Sauda Formation, and to prove reservoir presence and hydrocarbons in the Early Jurassic/Late Triassic Gassum/Skagerrak formations. A tertiary objective was to acquire quality data across the Balder Formation.

Operations and results

Wildcat well 17/6-1 was spudded with the semi-submersible installation West Alpha on 5 January 2011 and drilled to TD at 3065 m in the Late Triassic Skagerrak Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 712 m and with Glydril mud from 712 m to TD.

Top of the main target, Sandnes and Bryne formations was penetrated at 2630 m. The formations had a total gross reservoir thickness of 96 m containing sandstones interbedded with claystones and thin coal beds. Reservoir properties were poorer than expected in the Sandnes Formation, and only minor amounts of hydrocarbons were encountered in the uppermost part. The Bryne Formation had a better reservoir sand development, but was found to be water bearing. The secondary target Sauda Formation had no sand/reservoir development. The Gassum/Skagerrak Formation showed minor amounts of sandstones, but contained no hydrocarbons. The Balder Formation showed no reservoir development and had no indications of hydrocarbon shows. Two cuttings samples from the Sandnes Formation showed weak cut fluorescence (no core samples were taken); otherwise no oil shows were recorded in the well.

No cores were cut in the well. MDT fluid samples were taken at 2631.1 m, 2635.4 m, and at 2665 m. The two shallower sample points, at 2635.4 m and 2631.1 m both gave some indications of oil (perhaps 5%) on the LFA; however the mobility was so low that large draw-downs of 150 - 200 bar were necessary. Post well analysis showed that the two upper samples contained only 1 and 3 cm³ of oil, respectively. The deepest sample was a water sample.

The well was permanently abandoned on 7 February 2011 as a dry well with oil shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
716.00	3065.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
290	NORDLAND GP
340	HORDALAND GP
716	ROGALAND GP
716	BALDER FM
745	SELE FM
789	LISTA FM
865	VÅLE FM
878	SHETLAND GP
1219	BLODØKS FM
2020	BOKNFJORD GP
2020	FLEKKEFJORD FM
2116	SAUDA FM
2489	TAU FM
2542	EGERSUND FM
2630	VESTLAND GP
2630	SANDNES FM
2647	BRYNE FM
2726	FJERRITSLEV FM
2800	GASSUM FM
2988	SKAGERRAK FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
6501_01_17_6_1_gch_transfer_1	txt	0.00
6501_02_17_6_1_gch_results_1	txt	0.29

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
GR XPT HNGS HTNS TLD HRLA DSI	1952	3065
LWD - DI	290	368
LWD - DI	368	712
LWD - GR RES APWD DIR SON	368	713





LWD - GR RES APWD DIR SON ADN	716	1957
LWD - GVR ECO DIR SON	1957	3065
MDT GR	2631	2665
VSI GR	290	3055

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	368.0	36	368.0	0.00	LOT
SURF.COND.	20	706.7	26	713.0	1.45	LOT
PILOT HOLE		713.0	9 7/8	713.0	0.00	LOT
INTERM.	9 5/8	1952.0	12 1/4	1957.0	1.57	LOT
OPEN HOLE		3065.0	8 1/2	3065.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
350	1.04			Spud mud	
712	1.02			SW	
1050	1.13	19.0		Glydril WBM	
1957	1.24	15.0		Glydril WBM	
2220	1.25	16.0		Glydril WBM	
2582	1.25	16.0		Glydril WBM	
2790	1.24	17.0		Glydril WBM	
2890	1.24	17.0		Glydril WBM	
3065	1.25	17.0		Glydril WBM	