



Generell informasjon





Brønnbane navn	3/7-7
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	3/7-7
Seismisk lokalisering	Seismic survey GD04M01-inline 1570 & x-line 1410
Utvinningsstillatelse	289
Boreoperatør	DONG E&P Norge AS
Boretillatelse	1198-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	55
Borestart	03.09.2008
Boreslutt	27.10.2008
Frigitt dato	27.10.2010
Publiseringsdato	27.10.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	42.0
Vanndybde ved midlere havflate [m]	65.0
Totalt målt dybde (MD) [m RKB]	3930.0
Totalt vertikalt dybde (TVD) [m RKB]	3930.0
Maks inklinasjon [°]	3.2
Temperatur ved bunn av brønnbanen [°C]	127
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	HAUGESUND FM
Geodetisk datum	ED50
NS grader	56° 24' 10.58" N
ØV grader	4° 18' 3.14" E
NS UTM [m]	6251825.14
ØV UTM [m]	580287.68
UTM sone	31
NPDID for brønnbanen	5932



Brønnhistorie

General

Well 3/7-7 was drilled on the Marsvin prospect in the southern Søgne Basin, close to the Danish border in the southern North Sea. The objective of the well was to explore the hydrocarbon potential in Kimmeridgian-Volgian age ("Intra Farsund") sandstones.

Operations and results

Wildcat well 2/7-7 was spudded with the jack-up installation Mærsk Guardian on 3 September 2008 and drilled to TD at 3930 m, 73 m into the Late Jurassic Haugesund Formation. The well was drilled very efficiently, except for very low penetration rate when drilling in hard marls in the Ekofisk/Tor Formations. The well was drilled with Seawater/spud mud down to 655 m, with KCl polymer mud from 655 to 1308 m, and with CARBO-SEA oil based mud from 1308 m to TD.

The Marsvin 3/7-7 well penetrated four Kimmeridgian age sandstones in the interval 3457 to 3813 m: two J63 sandstones and two J62 sandstones interbedded in Farsund Formation shales. From petrophysical analyses the four sandstones comprised a total of 143 m gross and 106 m net reservoir with porosities in the range 17.5 to 22.4% and an average permeability of 108 mD. All reservoirs were water wet.

Very weak shows, just above that of OBM, were seen in the upper J62 sandstone (3770 to 3813 m), otherwise no oil shows were reported from the well, or they were masked by the base oil in the mud. Similar observation was made in post-well geochemical analyses of samples from the well; all migrated hydrocarbons and even the total organic carbon in cuttings and side wall cores samples were overprinted by the oil base, only the core samples from the lower J62 sandstone clearly showed migrated hydrocarbons.

One core was cut in the lowermost J62 sandstone from 3776.0 m - 3830.5 m, a total of 54.5 m, with a recovery of 99%. RCI wire line water samples were taken at 3748.5 m and at 3799.8 m.

The well was permanently abandoned on 27 October 2008 as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
220.00	3930.00

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



Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3776.0	3830.1	[m]

Total kjerneprøve lengde [m]	54.1
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
670.0	[m]	DC	DONG
1320.0	[m]	DC	DONG
1390.0	[m]	DC	DONG
1400.0	[m]	DC	DONG
1410.0	[m]	DC	DONG
1420.0	[m]	DC	DONG
2060.0	[m]	DC	DONG
2080.0	[m]	DC	DONG
2120.0	[m]	DC	DONG
2140.0	[m]	DC	DONG
2850.0	[m]	DC	DONG
2860.0	[m]	DC	DONG
2870.0	[m]	DC	DONG
2880.0	[m]	DC	DONG
2890.0	[m]	DC	DONG
2900.0	[m]	DC	DONG
2910.0	[m]	DC	DONG
2920.0	[m]	DC	DONG
2930.0	[m]	DC	DONG
2940.0	[m]	DC	DONG
3391.0	[m]	DC	DONG
3409.0	[m]	DC	DONG
3418.0	[m]	DC	DONG
3421.0	[m]	DC	DONG
3424.0	[m]	DC	DONG
3427.0	[m]	DC	DONG
3433.0	[m]	DC	DONG



3439.0	[m]	DC	DONG
3442.0	[m]	DC	DONG
3454.0	[m]	DC	DONG
3457.0	[m]	DC	DONG
3472.0	[m]	DC	DONG
3478.0	[m]	DC	DONG
3502.0	[m]	DC	DONG
3508.0	[m]	DC	DONG
3556.0	[m]	DC	DONG
3568.0	[m]	DC	DONG
3598.0	[m]	DC	DONG
3601.0	[m]	DC	DONG
3646.0	[m]	DC	DONG
3652.0	[m]	DC	DONG
3700.0	[m]	DC	DONG
3703.0	[m]	DC	DONG
3730.0	[m]	DC	DONG
3736.0	[m]	DC	DONG
3757.0	[m]	DC	DONG
3766.0	[m]	DC	DONG
3779.0	[m]	C	DONG
3783.0	[m]	C	DONG
3797.0	[m]	C	DONG
3803.0	[m]	C	DONG
3814.0	[m]	C	DONG
3822.0	[m]	C	DONG
3829.0	[m]	C	DONG
3835.0	[m]	DC	DONG
3847.0	[m]	DC	DONG
3862.0	[m]	DC	DONG
3871.0	[m]	DC	DONG
3883.0	[m]	DC	DONG
3895.0	[m]	DC	DONG
3904.0	[m]	DC	DONG
3913.0	[m]	DC	DONG
3922.0	[m]	DC	DONG
3930.0	[m]	DC	DONG

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
107	NORDLAND GP
1275	HORDALAND GP
2101	VADE FM
2860	ROGALAND GP
2860	BALDER FM
2877	SELE FM
2895	LISTA FM
2917	VÅLE FM
2941	SHETLAND GP
2941	EKOFISK FM
3054	TOR FM
3292	HOD FM
3386	CROMER KNOLL GP
3386	SOLA FM
3390	TUXEN FM
3422	ÅSGARD FM
3435	TYNE GP
3435	FARSUND FM
3857	HAUGESUND FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
5932	pdf	0.48

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5932_01_3_7_7_gch_transfer_1	txt	0.00
5932_02_3_7_7_gch_results_1	txt	0.23

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL	200	3431
DSL HDIL XMAC ZDL CN	3428	3929
LWD - GR EWR PWD D&I	216	1308
LWD - GR EWR PWD D&I	2965	3930
LWD - PDGR GR EWR PW D D&I	1308	2965
RCI SV GR	3460	3800
SWC GR	3440	3920
VSP GWV GR	2115	3915
ZDL XMAC	3182	3431

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	206.0	36	216.0	0.00	LOT
SURF.COND.	18 5/8	646.0	24	655.0	1.40	LOT
INTERM.	13 3/8	1304.0	17 1/2	1308.0	1.40	LOT
INTERM.	9 5/8	3429.0	12 1/4	3434.0	1.56	LOT
OPEN HOLE		3930.0	8 1/2	3930.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
655	1.30	16.0		Polymer	
955	1.39	20.0		Polymer	
1308	1.39	24.0		Polymer	
1465	1.56	42.0		Oil (regular)	
3097	1.56	21.0		Oil (regular)	
3122	1.56	32.0		Oil (regular)	
3278	1.62	40.0		Oil (regular)	
3434	1.57	33.0		Oil (regular)	
3596	1.60	33.0		Oil (regular)	
3930	1.61	37.0		Oil (regular)	