



Generell informasjon

Brønnbane navn	15/6-12
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	15/6-12 (McHenry)
Brønn navn	15/6-12
Seismisk lokalisering	3D surveyST0730-inline 1699&xline1937
Utvinningstillatelse	303
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1335-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	50
Borestart	22.12.2010
Boreslutt	09.02.2011
Frigitt dato	09.02.2013
Publiseringsdato	09.02.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	HUGIN FM
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	115.5
Totalt målt dybde (MD) [m RKB]	3930.0
Totalt vertikalt dybde (TVD) [m RKB]	3930.0
Maks inklinasjon [°]	2.4
Temperatur ved bunn av brønnbanen [°C]	127
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	58° 37' 48.51" N



ØV grader	1° 44' 15.47" E
NS UTM [m]	6499707.84
ØV UTM [m]	426696.78
UTM sone	31
NPDID for brønnbanen	6518

Brønnhistorie

General

Well 15/6-12 was drilled on the McHenry prospect on the south-western tip of the Gudrun Terrace in the south Viking Graben. The main objective was to test the Hugin Formation. The secondary objectives were to test the Sleipner and

Skagerrak formations. The Hugin Formation was also the main reservoir in the Dagny/Ermintrude discovery wells. The deep oil-water-contact observed in the 15/5-7 well on Dagny (3897 m TVD SS) indicated a possible spill from the Dagny/Ermintrude structure towards McHenry.

Operations and results

Wildcat well 15/6-12 was spudded with the semi-submersible installation on Transocean Leader on 22 December 2010 and drilled to TD at 3930 m in the Triassic Skagerrak Formation. Shallow gas was interpreted close to the well location and a 9 7/8" pilot hole was drilled from the 30" conductor shoe to 1060 m. No shallow gas was observed. Eighteen meter of drill string was lost in the hole prior to the logging job so loggers TD is 3914 m. Otherwise no significant problem occurred in the operations. The well was drilled with sea water and hi-vis pills down to 1104 m, with Performadrill WBM from 1104 m to 2768 m, and with Low-ECD XP-07 oil based mud from 2768 m to TD.

The Hugin Formation was penetrated at 3798 m. It was only 12 m thick and held a 4 m thick oil filled sandstone. The Hugin sand was prognosed to be between 10 and 100 m thick. The pressure measured in the Hugin Formation indicated no communication with the Dagny/Ermintrude discoveries to the south of 15/6-12. Otherwise there were no hydrocarbon indications apart from a 2.5 m thick limestone stringer with top at 2975 m. This limestone showed a significant resistivity increase and a decrease in density and gave a gas peak of 4.2 %, but no fluorescence was described. The secondary targets, Sleipner Formation and Skagerrak Formation were water bearing.

No cores were cut. An oil sample was collected with a MDT tool at 3806.0 m. The sample was estimated to be ca 11% contaminated with OBM.

The well was permanently abandoned on 9 February 2011 as an oil discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1110.00	3930.00
Borekaks tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3669.0	[m]	DC	
3675.0	[m]	DC	
3681.0	[m]	DC	
3687.0	[m]	DC	
3693.0	[m]	DC	
3699.0	[m]	DC	
3705.0	[m]	DC	
3711.0	[m]	DC	
3717.0	[m]	DC	
3723.0	[m]	DC	
3729.0	[m]	DC	
3735.0	[m]	DC	
3741.0	[m]	DC	
3747.0	[m]	DC	
3753.0	[m]	DC	
3759.0	[m]	DC	
3762.0	[m]	DC	
3765.0	[m]	DC	
3768.0	[m]	DC	
3771.0	[m]	DC	
3774.0	[m]	DC	
3777.0	[m]	DC	
3780.0	[m]	DC	
3783.0	[m]	DC	
3785.0	[m]	SWC	
3786.0	[m]	DC	
3789.0	[m]	DC	
3792.0	[m]	DC	
3792.5	[m]	SWC	
3795.0	[m]	DC	
3798.0	[m]	DC	



3798.5	[m]	SWC	
3801.0	[m]	DC	
3804.0	[m]	DC	
3807.0	[m]	DC	
3810.0	[m]	DC	
3816.0	[m]	DC	
3822.0	[m]	DC	
3830.0	[m]	DC	
3834.0	[m]	DC	
3840.0	[m]	DC	
3846.0	[m]	DC	
3852.0	[m]	DC	
3860.0	[m]	DC	
3866.0	[m]	DC	
3873.0	[m]	DC	
3879.0	[m]	DC	
3885.0	[m]	DC	
3891.0	[m]	DC	

Oljeprøver i Søkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	1A-1B	0.00	0.00	OIL	29.01.2011 - 00:00	YES
MDT		0.00	3806.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
139	NORDLAND GP
762	UTSIRA FM
999	HORDALAND GP
1298	SKADE FM
1715	GRID FM
2191	ROGALAND GP
2191	BALDER FM
2244	SELE FM



2310	LISTA FM
2341	HEIMDAL FM
2559	TY FM
2751	SHETLAND GP
2751	EKOFISK FM
2782	TOR FM
3081	HOD FM
3517	BLODØKS FM
3526	SVARTE FM
3629	CROMER KNOLL GP
3629	RØDBY FM
3666	SOLA FM
3669	VIKING GP
3669	DRAUPNE FM
3780	HEATHER FM
3798	VESTLAND GP
3798	HUGIN FM
3810	SLEIPNER FM
3876	HEGRE GP
3876	SKAGERRAK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT GPIT PPC MSIP PPC PEX	3388	3914
MDT	3805	3896
MSCT	3785	3900
MWD - ARCVRES PP	203	1100
MWD - ARCVRES TELE PP PD STETH	1100	3930
PPC MSIP PPC GPIT TLD	2060	3633
VSI4 VSP	1000	3910

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	199.0	36	203.0	0.00	LOT
SURF.COND.	20	1092.0	26	1104.0	2.00	LOT



INTERM.	14	2754.0	17 1/2	2768.0	1.65	LOT
INTERM.	9 5/8	3629.0	12 1/4	3632.0	2.02	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
800	1.41	35.0		Performadril	
900	1.41	36.0		Performadril	
1100	1.25	26.0		Performadril	
1336	1.25	29.0		Performadril	
2362	1.35	39.0		Performadril	
2406	1.37	36.0		Performadril	
2525	1.37	34.0		Performadril	
2684	1.37	42.0		Performadril	
2696	1.37	42.0		Performadril	
2765	1.47	19.0		OBM-Low ECD	
2765	1.37	36.0		Performadril	
2765	1.37	36.0		Performadril	
3440	1.45	23.0		OBM-Low ECD	
3629	1.56	25.0		OBM-Low ECD	
3680	1.89	38.0		OBM-Low ECD	
3786	1.89	43.0		OBM-Low ECD	
3812	1.89	47.0		OBM-Low ECD-HTHP	
3930	1.75	33.0		OBM-Low ECD	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
6518 Formation pressure (Formasjonstrykk)	pdf	0.22

