



Generell informasjon

Brønnbane navn	15/6-11 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GINA KROG
Funn	15/5-1 Gina Krog
Brønn navn	15/6-11
Seismisk lokalisering	3D LINE st0730z09 INLINE 1460 & TRACE 1480
Utvinningstillatelse	303
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1328-L
Boreinnretning	OCEAN VANGUARD
Boredager	54
Borestart	27.10.2010
Boreslutt	19.12.2010
Frigitt dato	19.12.2012
Publiseringsdato	20.12.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
1. nivå med hydrokarboner, formasjon.	HUGIN FM
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	115.0
Totalt målt dybde (MD) [m RKB]	4042.0
Totalt vertikalt dybde (TVD) [m RKB]	3966.0
Maks inklinasjon [°]	19.1
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	58° 34' 8.62" N
ØV grader	1° 42' 10.61" E



NS UTM [m]	6492945.84
ØV UTM [m]	424551.53
UTM sone	31
NPDID for brønnbanen	6488

Brønnhistorie

General

Well 15/6-11 S was drilled on the Dougal North prospect in the South-eastern end of the Viking Graben. The Dougal North prospect is situated in a down-faulted block south of the Ermintrude West Segment of the Dagny Discovery. It was believed to be a continuation of the Dagny reservoir. The main objective was thus to delimit and test the extension of the Hugin Formation of the Dagny Discovery. If hydrocarbons were confirmed a drill stem test would be conducted.

Operations and results

Appraisal well 15/6-11 S was spudded with the semi-submersible installation Ocean Vanguard on 27 October 2010 and drilled to TD at 4042 m in the Early Jurassic Statfjord Formation. The BHA was lost at 1758 m but was retrieved. It was decided to run wire line logs at this point, and drilling proceeded without further significant problem after that. The well was drilled with sea water and bentonite sweeps down to 696 m, with Performadrill WBM from 696 m to 2190 m, and with XP-07 14A OBM from 2190 m to TD.

The Hugin Formation reservoir sands were penetrated at 3868.5 m MD (3800 m TVD), which was 16 m deeper than prognosis. The Hugin reservoir was found to be water wet. Only weak oil shows that could be due to the OBM was observed in the Hugin Formation, otherwise no hydrocarbon indications were reported from the well.

No cores were cut. MDT water samples were taken at 3916.5 m.

The well was plugged back for sidetracking to a second prospect, Ermintrude West. It was abandoned on 19 December 2010 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
710.00	4042.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3838.0	[m]	DC	
3844.0	[m]	DC	
3847.0	[m]	DC	
3850.0	[m]	DC	
3853.0	[m]	DC	
3856.0	[m]	DC	
3859.0	[m]	DC	
3862.0	[m]	DC	
3868.0	[m]	DC	
3871.0	[m]	DC	
3874.0	[m]	DC	
3877.0	[m]	DC	
3880.0	[m]	DC	
3884.0	[m]	DC	
3886.0	[m]	DC	
3889.0	[m]	DC	
3892.0	[m]	DC	
3895.0	[m]	DC	
3898.0	[m]	DC	
3904.0	[m]	DC	
3910.0	[m]	DC	
3916.0	[m]	DC	
3922.0	[m]	DC	
3928.0	[m]	DC	
3934.0	[m]	DC	
3940.0	[m]	DC	
3946.0	[m]	DC	
3952.0	[m]	DC	
3958.0	[m]	DC	
3964.0	[m]	DC	
3970.0	[m]	DC	
3976.0	[m]	DC	
3982.0	[m]	DC	
3988.0	[m]	DC	
3994.0	[m]	DC	
4000.0	[m]	DC	



4009.0	[m]	DC	
4015.0	[m]	DC	
4021.0	[m]	DC	
4027.0	[m]	DC	
4033.0	[m]	DC	
4039.0	[m]	DC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
137	NORDLAND GP
785	UTSIRA FM
996	HORDALAND GP
1328	SKADE FM
1748	GRID FM
2110	ROGALAND GP
2110	BALDER FM
2168	SELE FM
2215	LISTA FM
2240	HEIMDAL FM
2634	VÅLE FM
2755	SHETLAND GP
2755	EKOFISK FM
2802	TOR FM
3130	HOD FM
3497	BLODØKS FM
3502	HIDRA FM
3549	CROMER KNOLL GP
3549	RØDBY FM
3595	SOLA FM
3600	ÅSGARD FM
3612	VIKING GP
3612	DRAUPNE FM
3725	HEATHER FM
3869	VESTLAND GP
3869	HUGIN FM
3921	SLEIPNER FM
3947	DUNLIN GP
3947	COOK FM



3970 [STATFJORD GP](#)

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD LWD - VISRES6 GVR TELE	3824	4042
MWD LWD - VISRES9 TELE	137	3817
PEX MSIP PPC1	689	1750

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	187.0	36	190.0	0.00	LOT
SURF.COND.	20	690.0	26	696.0	1.98	LOT
INTERM.	13 3/8	2181.5	17 1/2	2190.0	1.66	LOT
INTERM.	9 5/8	3817.0	12 1/4	3817.0	1.98	LOT
OPEN HOLE		4042.0	8 1/2	4042.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
702	1.30	21.0		Performadril	
770	1.30	20.0		Performadril	
894	1.31	540.0		Performadril	
940	1.31	20.0		Performadril	
1004	1.31	25.0		Performadril	
1136	1.34	24.0		Performadril	
1460	1.36	29.0		Performadril	
1505	1.35	24.0		Performadril	
1518	1.36	28.0		Performadril	
1518	1.35	24.0		Performadril	
1537	1.36	28.0		Performadril	
1614	1.35	30.0		Performadril	
1753	1.35	26.0		Performadril	
1758	1.35	26.0		Performadril	
1975	1.40	28.0		XP-07 - #14	



1989	1.40	28.0		XP-07 - #14	
1992	1.35	22.0		Performadril	
2103	1.35	27.0		Performadril	
2190	1.35	33.0		Performadril	
2190	1.36	33.0		Performadril	
2196	1.23	23.0		XP-07 - #14	
2780	1.23	26.0		XP-07 - #14	
3080	1.27	30.0		XP-07 - #14	
3490	1.47	35.0		XP-07 - #14	
3542	1.39	29.0		XP-07 - #14	
3818	1.46	27.0		XP-07 - #14	
4042	1.50	45.0		XP-07 - #14	
4042	1.47	32.0		XP-07 - #14	
4042	1.47	31.0		XP-07 - #14	
4042	1.46	29.0		XP-07 - #14	

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]
6488 Formation pressure (Formasjonstrykk)	pdf	0.23

