



Generell informasjon

Brønnbane navn	15/12-21 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	15/12-21 (Grevling)
Brønn navn	15/12-21
Seismisk lokalisering	inline 1112 & xline 3355
Utvinningstillatelse	038 D
Boreoperatør	Talisman Energy Norge AS
Boretillatelse	1253-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	30
Borestart	23.05.2009
Boreslutt	21.06.2009
Frigitt dato	21.06.2011
Publiseringsdato	21.06.2011
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	HUGIN FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	SLEIPNER FM
Avstand, boredekk - midlere havflate [m]	42.1
Vanndybde ved midlere havflate [m]	86.0
Totalt målt dybde (MD) [m RKB]	3702.0
Totalt vertikalt dybde (TVD) [m RKB]	3348.0
Maks inklinasjon [°]	50.4
Temperatur ved bunn av brønnbanen [°C]	125
Eldste penetrerte alder	LATE TRIASSIC



Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	58° 13' 40.47" N
ØV grader	1° 52' 56.82" E
NS UTM [m]	6454775.77
ØV UTM [m]	434361.34
UTM sone	31
NPDID for brønnbanen	6139

Brønnhistorie

General

The 15/12-21 A is a sidetrack to the 15/12-21 Grevling well, which discovered oil in Hugin, Sleipner, and Skagerrak Formations sandstones. No oil-water contacts were seen in 15/12-21. The sidetrack well was drilled to appraise the discovery down flanks and to the east on the structure.

Operations and results

Appraisal well 15/12-21A was kicked off from 2162 m in well 15/12-21 on 21 May 2009. It was drilled with the jack-up installation Mærsk Guardian to TD at 3702 m (3348 m TVD) in the Late Triassic Skagerrak Formation. The well was drilled with Carbosea oil based mud from kick-off to TD.

The Hugin Formation was encountered at 3378 m (3118 m TVD), the Sleipner Formation at 3412 m (3141 m TVD), and the Triassic Skagerrak Formation at 3493 m (3198 m TVD). All three formations proved to be oil bearing as in the main well, with total pay of 36 m MD. No oil shows were noted above reservoir level. Patchy oil shows were recorded down to 3570m and the higher gas components had died away by 3586m. Show description was compromised due to the fact that the sandstone cuttings were often altered to an amorphous rock flour. The shows were described as poor direct pale white fluorescence, slow white crush cut fluorescence, very pale tea colour residue.

No cores were cut in this well. RCI wire line fluid samples were taken at 3394.5 m in the Hugin Formation (oil), 3411.7 m in the Hugin Formation (oil), 3519.4 m in the Skagerrak Formation (oil), and at 3646 m in the Skagerrak Formation (water).

The well was permanently abandoned on 20 June 2009 as an oil appraisal.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2170.00	3702.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3379.0	[m]	DC	APT
3391.0	[m]	DC	APT
3400.0	[m]	DC	APT
3412.0	[m]	DC	APT
3424.0	[m]	DC	APT
3436.0	[m]	DC	APT
3448.0	[m]	DC	APT
3460.0	[m]	DC	APT
3472.0	[m]	DC	APT
3484.0	[m]	DC	APT
3496.0	[m]	DC	APT
3508.0	[m]	DC	APT
3628.0	[m]	DC	APT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
128	NORDLAND GP
930	UTSIRA FM
1131	HORDALAND GP
2323	ROGALAND GP
2323	BALDER FM
2331	SELE FM
2411	LISTA FM
2492	VÅLE FM
2516	SHETLAND GP
2516	TOR FM
2724	HOD FM
2836	BLODØKS FM
2889	HIDRA FM
2970	CROMER KNOLL GP
2970	RØDBY FM



3011	SOLA FM
3056	ÅSGARD FM
3088	VIKING GP
3088	DRAUPNE FM
3285	HEATHER FM
3378	VESTLAND GP
3378	HUGIN FM
3412	SLEIPNER FM
3493	NO GROUP DEFINED
3493	SKAGERRAK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
GR RCI TTRM	3385	3662
MWD LWD - DIR RES GR GEO AP PWD	3079	3702
MWD LWD - DIR RES GR SON DEN NEU	2572	2619
MWD LWD - DIR RES GR SON DEN NEU	3344	3702
MWD LWD - GEOTAP PWD DIR	2572	2619
MWD LWD - GEOTAP PWD DIR	3344	3702
MWD LWD - GR RES PWD DIR	2619	3344
MWD LWD - GR RES PWD DIR GYRO	2162	2572

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
OPEN HOLE		2162.0	8 1/2	3702.0	1.71	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
2162	1.43			oil based	
3702	1.43			oil based	

