



Generell informasjon

Brønnbane navn	31/2-21 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	31/2-21
Seismisk lokalisering	Survey NH9401 WIM 11:il2896 & xl 4342
Utvinningstillatelse	550
Boreoperatør	Tullow Oil Norge AS
Boretillatelse	1476-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	38
Borestart	28.04.2014
Boreslutt	04.06.2014
Frigitt dato	04.06.2016
Publiseringsdato	04.06.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	349.0
Totalt målt dybde (MD) [m RKB]	3217.0
Totalt vertikalt dybde (TVD) [m RKB]	3009.0
Maks inklinasjon [°]	31.3
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	COOK FM
Geodetisk datum	ED50
NS grader	60° 58' 16.97" N
ØV grader	3° 28' 1.74" E
NS UTM [m]	6759849.93
ØV UTM [m]	525290.05
UTM sone	31
NPDID for brønnbanen	7416



Brønnhistorie

General

Well 31/2-21 S was drilled to test the Gotama prospect between the Troll and the Fram Fields in the northern North Sea. The primary exploration target was to prove petroleum in Late Jurassic reservoir rocks (Intra Draupne Formation Sandstone). The secondary exploration target was proving petroleum in Late and Middle Jurassic reservoir rocks (Sognefjord, Fensfjord, Krossfjord formations and the Brent Group).

Operations and results

Wildcat well 31/2-21 S was spudded with the semi-submersible installation Borgland Dolphin on 28 April 2014 and drilled to TD at 3217 m (3009 m TVD) in the Early Jurassic Cook Formation. No significant problem was encountered in the operations. The well was drilled with seawater and sweeps down to 921 m and with Performadril mud with 4-5% glycol from 921 m to TD.

The Intra Draupne Formation reservoir was not present in the well. Reservoirs with medium to good quality were found in Sognefjord Formation, Krossfjord/Fensfjord Formation, Brent Group and Cook Formation. All reservoir sections proved to be water wet on the MWD/LWD logs. At 2300m, a dark yellow direct fluorescence (mineral fluorescence?) with no cut fluorescence and no residual ring was described. Except for this there were not described any shows in the well.

No cores were cut A dry hole wire line program was run. No fluid samples were taken.

The well was permanently abandoned on 4 June 2014 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
930.00	3218.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
380	NORDLAND GP
796	UTSIRA FM
895	HORDALAND GP
1558	ROGALAND GP



1558	BALDER FM
1606	SELE FM
1664	LISTA FM
1968	VÅLE FM
2004	SHETLAND GP
2004	JORSALFARE FM
2059	VIKING GP
2059	DRAUPNE FM
2180	HEATHER FM
2192	SOGNEFJORD FM
2562	FENSFJORD FM
2932	BRENT GP
2932	NESS FM
2998	ETIVE FM
3013	RANNOCH FM
3032	OSEBERG FM
3074	DUNLIN GP
3074	DRAKE FM
3123	COOK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD LWD - DEN NEU FMT	2006	3217
MWD LWD - DIR	379	924
MWD LWD - GR AB RES SON DIR PWD	2006	3217
MWD LWD - GR RES SON DIR PWD	379	930
MWD LWD - GR RES SON DIR PWD	924	2006

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	458.3	36	464.0	0.00	
SURF.COND.	20	914.5	26	921.0	1.65	LOT
OPEN HOLE		924.0	17 1/2	924.0	0.00	
PILOT HOLE		930.0	9 7/8	930.0	0.00	



INTERM.	9 5/8	1999.7	12 1/4	2006.0	1.62	LOT
OPEN HOLE		2150.0	8 1/2	2150.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
379	1.49	22.0		KCL	
463	1.49	22.0		KCL	
463	1.34	22.0		KCL	
494	1.34	22.0		KCL	
790	1.49	22.0		KCL	
882	1.34	19.0		KCL	
921	1.29	19.0		PERFORMADRIL	
921	1.34	19.0		KCL	
921	1.29	19.0		PERFORMADRIL	
930	1.34	11.0		KCL	
1414	1.29	26.0		PERFORMADRIL	
2007	1.26	33.0		PERFORMADRIL	
2017	1.24	17.0		PERFORMADRIL	
2192	1.24	25.0		PERFORMADRIL	
2652	1.24	26.0		PERFORMADRIL	
3217	1.29	27.0		PERFORMADRIL	
3217	1.24	29.0		PERFORMADRIL	
3217	1.02	1.0		sea water	
3217	1.02	1.0		sea water	
3217	1.02	1.0		sea water	
3217	1.29	27.0		PERFORMADRIL	
3218	1.29	21.0		PERFORMADRIL	
3218	1.02	1.0		sea water	
3218	1.02	1.0		sea water	
3218	1.29	30.0		PERFORMADRIL	
3218	1.29	21.0		PERFORMADRIL	