



Generell informasjon

Brønnbane navn	6305/8-2
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	ORMEN LANGE
Funn	6305/5-1 Ormen lange
Brønn navn	6305/8-2
Seismisk lokalisering	
Utvinningstillatelse	250
Boreoperatør	A/S Norske Shell
Boretillatelse	1542-L
Boreinnretning	TRANSOCEAN BARENTS
Boredager	59
Borestart	24.09.2014
Boreslutt	21.11.2014
Frigitt dato	21.11.2016
Publiseringsdato	21.11.2016
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	EGGA FM (INFORMAL)
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	616.0
Totalt målt dybde (MD) [m RKB]	3078.0
Totalt vertikalt dybde (TVD) [m RKB]	3078.0
Maks inklinasjon [°]	2.8
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	SPRINGAR FM
Geodetisk datum	ED50
NS grader	63° 19' 42.05" N
ØV grader	5° 21' 36.69" E



NS UTM [m]	7024521.08
ØV UTM [m]	618191.06
UTM sone	31
NPDID for brønnbanen	7579

Brønnhistorie

General

Well 6305/8-2 was drilled to appraise the southern part of the Ormen Lange Field in the Sothern Norwegian Sea. The objective of well 6305/8-2 was to delineate the field to the south, as it was unclear whether the area was optimally drained or not by existing production wells.

Operations and results

Appraisal well 6305/8-2 was spudded with the semi-submersible installation Transocean Barents on 24 September 2014 and drilled to TD at 3078 m in the Late Cretaceous Springar Formation. No significant problem was encountered in the operations. The well was drilled with seawater and bentonite sweeps down to 1499 m, with KCl/polymer/glycol mud from 1499 m to 2897 m, and with Innovert NS oil based mud from 2897 m to TD.

Top of the Egga Informal Formation Reservoir was encountered at 2906.5 m 23.5 m deeper than prognosed. Below Egga from 3005 to 3015 m an undifferentiated unit was penetrated before entering the Maastrichtian age Jorsalfare Formation. The Egga contained a 28-metre gas column down to a current GDT at 2936.0 m, and an underlying water zone with very good reservoir quality. The water zone in the lower part of Egga has extreme core permeabilities in the several Darcy range, often exceeding five Darcy. Below the GDT, the interpretation indicated a swept zone down to ca 2950 m followed by a residual gas zone down to ca 2969 m. All sands are fully water bearing below this depth. Both the undifferentiated unit and the Jorsalfare Formation were aquiferous with very good and poor to very good reservoir quality, respectively. The water zone is 70 metres in total. Wireline pressure measurements show depletion due to production in the D-template area. Pressure depletion relative to the closest exploration well 6305/7-1 vary from a high of 88.5 bar to a low of 7.4 bar.

Four consecutive cores were cut from 2898 to 3006.5 m, from the shale unit above the reservoir and down through the whole of Egga. MDT water samples were taken at 2991.7 m in Egga and at 3012 m in the underlying undifferentiated unit.

The well was permanently abandoned on 21 November 2014 as a gas appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1500.00	3078.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2910.0	2924.4	[m]
2	2924.4	2952.2	[m]
3	2952.2	2978.0	[m]
4	2978.0	3005.8	[m]

Total kjerneprøve lengde [m]	95.8
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
656	NORDLAND GP
656	NAUST FM
1465	KAI FM
1614	HORDALAND GP
1614	BRYGGE FM
2527	ROGALAND GP
2527	TARE FM
2680	TANG FM
2891	UNDIFFERENTIATED
2907	EGGA FM (INFORMAL)
3005	UNDIFFERENTIATED
3015	SHETLAND GP
3015	JORSALFARE FM
3047	SPRINGAR FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DEN SON CAL GR	731	2897
GR RES DEN NMR SPEC GR	2830	3080
MDT MFRAC	2904	3046



MFRAC	2904	2975
MFRAC	2920	2960
MIC RES SON CBL VDL	2576	3081
MWD - DI	655	737
MWD - GR RES PWD DI	724	2000
MWD - GR RES PWD DI	1794	2897
MWD - GR RES PWD SON NEU DEN DI	2896	3068
MWD - PWD DI	2889	3077
VSP GR	655	1980
VSP GR	1675	2879
VSP GR	1790	2897
VSP GR	2711	3062

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	36	734.1	42	737.7	0.00	
SURF.COND.	20	1492.4	26	1496.6	1.25	LOT
PROD.	13 5/8	1996.4	17 1/2	2001.0	1.35	LOT
LINER	9 5/8	2896.5	12 1/4	2897.0	1.21	LOT
OPEN HOLE		3078.0	8 1/2	3078.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
655	1.03			Seawater	
1480	1.25			KCl / NaCl /Glycol polymer mud	
1480	1.30			P&D Mud	
1498	1.30			KCl/Polymer Displacement	
1499	1.25			KCl / NaCl /Glycol polymer mud	
1714	1.28			KCl / NaCl /Glycol polymer mud	
1863	1.32			KCl / NaCl /Glycol polymer mud	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 23:54

2001	1.35			KCl / NaCl /Glycol polymer mud	
2029	1.41			KCl / NaCl /Glycol polymer mud	
2897	1.20			INNOVERT NS OBM	
2897	1.41			KCl / NaCl /Glycol polymer mud	
2925	1.20			INNOVERT NS OBM	
3078	1.35			Bentonite mud	
3078	1.35			Polymer Mud / Glycol	
3078	1.22			INNOVERT NS OBM	
3078	1.22			INNOVERT NS OBM	