



Generell informasjon

Brønnbane navn	30/8-4 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	30/8-4 S
Brønn navn	30/8-4
Seismisk lokalisering	3D survey NH02M1-inline 1886 & x-line 1393
Utvinningstillatelse	190
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1211-L
Boreinnretning	TRANSOCEAN WINNER
Boredager	68
Borestart	29.11.2008
Boreslutt	04.02.2009
Frigitt dato	04.02.2011
Publiseringsdato	04.02.2011
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	93.5
Totalt målt dybde (MD) [m RKB]	4210.0
Totalt vertikalt dybde (TVD) [m RKB]	4154.5
Maks inklinasjon [°]	18
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	NESS FM
Geodetisk datum	ED50
NS grader	60° 20' 5.03" N
ØV grader	2° 36' 9.32" E



NS UTM [m]	6688913.56
ØV UTM [m]	478056.63
UTM sone	31
NPDID for brønnbanen	5974

Brønnhistorie

General

The Curran well 30/8-4 S was drilled west of the Osebeg Sør field in the Viking Graben of the North Sea. The purpose of the exploration well 30/8-4 S was to prove commercial hydrocarbon volumes in the Curran structure, assess reservoir quality, determine fluid type and contacts and to verify regional sedimentology and provide input to depositional models.

Operations and results

Wildcat well 30/8-4 S was spudded with the semi-submersible installation Transocean Winner on 29 November 2008 and drilled to TD at 4210 m (4154.5 m TVD) in the Middle Jurassic Ness Formation. No significant technical problem was encountered in the operations. Due to shallow gas warning, a 9 7/8" pilot hole was drilled from 185 m to 348 m. No shallow gas was seen. Well path was vertical down to 2700 m. Angle was built to around 16 deg at 3110 m. From here, a ca 16 deg angle was kept all the way to TD. The well was drilled with Seawater and bentonite sweeps down to 1062 m, with Glydril mud from 1062 m to 3238 m, and with Versatec oil based mud from 3238 m to TD.

The expected large wedge of Late Jurassic turbidite deposits (Intra Draupne sandstone) was not found. Instead, the Heather formation was shallower and a well-developed Middle Heather (Middle Bathonian to Late Callovian) and Lower Heather (Early to late Bathonian age) was observed at well location. The Brent Group, Tarbert Formation, was found deeper than expected at 3899.5 m (3857.2 m TVD). The Middle Tarbert Formation at 3985.5 m (3939.6 m TVD) was oil bearing down to an ODT contact at 4003.7 m (3954 m TVD), giving a 14 m TVD oil column. PVT analyses of oil samples gave a single flash GOR of 427 Sm³/Sm³ and a stock tank oil density of 0.827 g/cm³ (i.e. light oil). The reservoir quality was poor, based on core analysis and logging data. Curran is evaluated to be a minor oil discovery. Oil shows were recorded in the top part of both of the cores otherwise no oil shows are reported from the well.

Two cores were cut in the well. Core 1 was cut at 3910.5 to 3937.7 m in the Upper Tarbert Formation and core 2 was cut at 3988.5 to 4042.5 m in the Middle Tarbert Formation. Oil sampling was performed with MDT and dual packer (Mini-DST) at 3987.5 m in Middle Tarbert Formation. The oil samples were contaminated 10-11% with oil based mud. Water sampling was performed at 4025.6 m in the Middle Tarbert Formation.

The well was permanently abandoned on 4 February 2009 as a minor oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2320.00	4211.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3910.5	3932.9	[m]
2	3988.5	4041.2	[m]

Total kjerneprøve lengde [m]	75.1
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		0.00	0.00	OIL	19.01.2009 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
120	NORDLAND GP
599	UTSIRA FM
1255	NO FORMAL NAME
2210	ROGALAND GP
2210	BALDER FM
2275	SELE FM
2330	LISTA FM
2455	VÅLE FM
2533	SHETLAND GP
2533	EKOFISK FM
2541	HARDRÅDE FM
2811	KYRRE FM



3408	CROMER KNOLL GP
3489	VIKING GP
3489	DRAUPNE FM
3520	HEATHER FM
3899	BRENT GP
3899	TARBERT FM
4153	NESS FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5974_01_30_8_4S_gch_transfer_1	txt	0.00
5974_02_30_8_4S_gch_results_1	txt	0.12

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX HNGS ECS	3275	3275
AIT PEX HNGS ECS	3965	3965
DSI PEX	2306	3220
HF AIT PEX XPT	3246	3890
HF AIT PEX ZPT HNGS	3210	4210
HF CMR ECS	3875	4200
HF MDT	3987	4048
HF MDT MRPA	3988	4026
HF MDT MRPA MRPC	3940	3940
HF OBMI2 MSIP PPC1	3210	4180
MWD - TELESCOPE	120	186
MWD - TELESCOPE ARCRES	186	348
MWD - TELESCOPE ARCRES	186	2318
MWD - TELESCOPE ARCRES GVR	3218	4210
OBMI2 GPIT PPC	3290	3290
OBMI2 PPC1 MSIP PPC	3275	3275
PEX PPC1 HNGS	3275	3275
ZO VSP	2009	4190

Foringsrør og formasjonsstyrketester





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 19:59

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	181.0	36	181.0	0.00	LOT
SURF.COND.	20	1048.0	26	1062.0	1.55	LOT
INTERM.	13 3/8	2306.0	17 1/2	2316.0	1.71	LOT
INTERM.	9 5/8	3210.0	12 1/4	3238.0	1.93	LOT
OPEN HOLE		4210.0	8 1/2	4210.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2155	1.37	23.0		Glydril	
2283	1.40	24.0		Glydril	
2313	1.55	28.0		Versatec	
2313	1.42	26.0		Glydril	
2411	1.45	24.0		Versatec	
2900	1.73	49.0		Versatec	
3086	1.51	29.0		Versatec	
3218	1.53	31.0		Versatec	
3231	1.60	37.0		Versatec	
3310	1.73	49.0		Versatec	
3500	1.71	41.0		Versatec	
3873	1.71	40.0		Versatec	
3910	1.73	41.0		Versatec	
4126	1.73	43.0		Versatec	
4203	1.76	50.0		Versatec	
4302	1.73	49.0		Versatec	