



Generell informasjon

Brønnbane navn	7324/7-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7324/7-2 (Hanssen)
Brønn navn	7324/7-2
Seismisk lokalisering	Surbvey HF09:inline 2530 & crolline 4248
Utvinningstillatelse	537
Boreoperatør	OMV (Norge) AS
Boretillatelse	1515-L
Boreinnretning	TRANSOCEAN BARENTS
Boredager	85
Borestart	13.04.2014
Boreslutt	06.07.2014
Frigitt dato	06.07.2016
Publiseringsdato	06.07.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	STØ FM
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	417.5
Totalt målt dybde (MD) [m RKB]	1730.0
Totalt vertikalt dybde (TVD) [m RKB]	1719.0
Maks inklinasjon [°]	14.3
Temperatur ved bunn av brønnbanen [°C]	51
Eldste penetrerte alder	MIDDLE TRIASSIC
Eldste penetrerte formasjon	SNADD FM
Geodetisk datum	ED50
NS grader	73° 29' 27.09" N



ØV grader	24° 14' 2.56" E
NS UTM [m]	8157493.85
ØV UTM [m]	412291.83
UTM sone	35
NPDID for brønnbanen	7450

Brønnhistorie

General

Well 7324/7-2 was drilled to test the Hanssen prospect in the Hoop Fault Complex in the Barents Sea. The primary objective of well 7324/7-2 was to prove hydrocarbons in the Realgrunnen Subgroup. In addition, the well targeted the deeper Snadd Formation.

Operations and results

Wildcat well 7324/7-2 was spudded with the semi-submersible installation Transocean Barents on 13 April 2014 and drilled to TD at 1730 m (1719 m TVD) in the Middle Triassic Snadd Formation. After drilling the top hole to 576 m, the BOP could not be set according to schedule due to damaged Lower Marine Riser Package connector. Attempts to repair this and eventually mobilising a new LMRP connector from shore led to 414.5 hrs NPT. The target tolerance for the Early Carnian Snadd sand was revised from the drilling program. Due to this revision, a steerable drilling system was needed below 1200 m (the 6" hole) for hitting the well path inside the target box. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 521 m and with Glydril mud from 521 m to TD.

The primary target Stø Formation was encountered at 712 m and was oil bearing down to the oil-water contact, defined at 732.2 m (731.95 m TVD) from fluid scanning. In the secondary target, the Snadd formation, oil shows were described and gas was found but in poor reservoir rocks, and no gas gradient was established.

Six cores were cut in the well. The two first, 577.5 to 580.9 m in the Kolmule Formation and 672 to 678 m in the Fuglen Formation, were shale cores for geomechanical purposes. Cores 3 to 6 were cut in succession from 710 m in Fuglen cap rock, through the Stø Formation and down to 783.4 m in the Fruholmen Formation. MDT fluid samples were taken at 715 m (oil), 731 m (oil), 731.5 m (oil), 747.5 m (water), 757.7 m (water), 768 m (water), and 883.7 m (water). Fluid scanning at 732 m, 732.2m and 734 m proved water and oil together.

The well was permanently abandoned on 6 July 2014 as an oil discovery.

Testing

One oil DST run was performed in the interval 713 to 727 m in the Stø Formation. The test produced 276 Sm³ oil and 9417 Sm³ gas /day through a 48/64" choke. The GOR was 38 Sm³/Sm³, the oil gravity was 0.846g/cm³ (35.7° API), and the gas gravity was 0.731 (air = 1). The CO₂ content was 6%. The DST temperature was 16.5 °C.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
577.00	1730.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	577.5	580.9	[m]
2	672.0	675.9	[m]
3	710.0	723.5	[m]
4	724.0	739.2	[m]
5	739.5	757.4	[m]
6	757.5	782.0	[m]

Total kjerneprøve lengde [m]	78.4
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
MDT		714.80	0.00	OIL		NO
MDT		731.50	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
458	NORLAND GP
458	UNDIFFERENTIATED
506	ADVENTDALEN GP
506	KOLMULE FM
591	KOLJE FM
610	KNURR FM
630	HEKKINGEN FM
666	FUGLEN FM
712	KAPP TOSCANA GP



712	STØ FM
736	FRUHOLMEN FM
839	SNADD FM

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	713	727	19.1

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				17

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	276	9417	0.846	0.731	38

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR MDT	1199	1720
CMR MDT GR LEH	705	1199
DP MDT-TLC	1591	1655
FMIHD PPC1 MSIP PPC2 GR LEH	670	1199
GPIT PPC1 MSIP PPC2 GR	457	700
MDT TLC	715	883
MWD - GVR ES PS TS	576	700
MWD - GVR SS IM STS ADN	576	1730
MWD - PP	457	522
MWD - PS ES TS SONVIS	522	566
PEX HRLT ECS FMI	1199	1720
PPC1 MSIP PPC2 MCFL ZAIT HNGS	1199	1720
USIT CBL VDL GR	583	1195
VSP GR	314	0
ZAIT CAL ECS HNGS GR	500	700
ZAIT HRLA PEX HNGS	705	1199



ZVSP	1121	1722
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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	518.0	36	523.0	0.00	
SURF.COND.	20	571.0	26	576.0	1.36	FIT
INTERM.	9 5/8	694.0	12 1/4	700.0	1.70	FIT
LINER	7	1199.0	8 1/2	1200.0	1.99	FIT
OPEN HOLE		1730.0	6	1730.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
458	1.02			Sea Water	
510	1.19	15.0		GLYDRIL WBM	
521	1.02			Sea Water	
540	1.24	17.0		Glydril	
576	1.14	23.0		Glydril	
964	1.15	13.0		Glydril	
1002	1.14			Packer Fluid (NaCl brine)	
1200	1.18	13.0		Glydril	
1555	1.18	14.0		Glydril	
1730	1.18	12.0		Glydril	