Generell informasjon

Brønnbane navn	7324/2-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Brønn navn	7324/2-1
Seismisk lokalisering	3D survey MC3D:inline 2170 & xline 7584
Utvinningstillatelse	615
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1523-L
Boreinnretning	TRANSOCEAN SPITSBERGEN
Boredager	18
Borestart	01.06.2014
Boreslutt	18.06.2014
Frigitt dato	18.06.2016
Publiseringsdato	18.06.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	444.0
Totalt målt dybde (MD) [m RKB]	1090.0
Totalt vertikalt dybde (TVD) [m RKB]	1090.0
Maks inklinasjon [°]	2.8
Temperatur ved bunn av brønnbanen [°C]	29
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SNADD FM
Geodetisk datum	ED50
NS grader	73° 51' 47.9'' N
ØV grader	24° 32' 29.9'' E
NS UTM [m]	8198587.61
ØV UTM [m]	423751.01
UTM sone	35
NPDID for brønnbanen	7481

Brønnhistorie

General

Well 7324/2-1 was drilled to test the Apollo prospect on the western flank of the Hoop Graben in the Barents Sea. The primary objective was to prove an economic volume of hydrocarbons in the Stø, Nordmela, Tubåen and Fruholmen formations in the Early-Middle Jurassic.

Operations and results

Wildcat well 7324/2-1 was spudded with the semi-submersible installation Transocean Spitsbergen on 1 June 2014 and drilled to TD at 1090 m in the Late Triassic Snadd Formation. A pilot well was drilled to a depth of 640 m to look for shallow gas. No shallow gas was encountered in the pilot hole. No significant problem was encountered in the operations. Drilling of the top hole down to the reservoir section was very fast, too fast for the well site geologist and mud logger to get good cuttings samples and look for shows in sandstone stringers. The well was drilled with seawater and hi-vis sweeps down to 639 m, with KCl/Polymer/Glycol mud from 639 m to 791 m, and with Low Sulphate/KCl/Polymer/Glycol mud from 791 m to TD.

Top of the Jurassic Stø Formation was penetrated at 849 m, with sandstones from 857 m to top of the Late Triassic Fruholmen Formation at 871 m. These sandstones had moderate reservoir quality. Unfortunately, they were water wet. The Nordmela and Tubåen formations were not present in the well. The only hydrocarbon indications in the well were oil shows, described in the sidewall cores from the Snadd Formation between 893 m and 929 m.

No cores were cut. MDT water samples were taken at 857.7 m.

The well was permanently abandoned on 18 June 2014 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
650.00	1090.00

Borekaks tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
647.0	[m]	DC	ROBERTSO
660.0	[m]	DC	ROBERT
670.0	[m]	DC	ROBERT

676.0	[m]	DC	ROBERT
682.0	[m]	DC	ROBERT
688.0	[m]	DC	ROBERT
694.0	[m]	DC	ROBERT
700.0	[m]	DC	ROBERT
706.0	[m]	DC	ROBERT
712.0	[m]	DC	ROBERT
718.0	[m]	DC	ROBERT
730.0	[m]	DC	ROBERT
740.0	[m]	DC	ROBERT
760.0	[m]	DC	ROBERT
770.0	[m]	DC	ROBERT
780.0	[m]	DC	ROBERT
790.0	[m]	DC	ROBERT
796.0	[m]	DC	ROBERT
802.0	[m]	DC	ROBERT
808.0	[m]	DC	ROBERT
814.0	[m]	DC	ROBERT
820.0	[m]	DC	ROBERT
823.0	[m]	DC	ROBERT
826.0	[m]	DC	ROBERT
829.0	[m]	DC	ROBERT
832.0	[m]	DC	ROBERT
835.0	[m]	DC	ROBERT
838.0	[m]	DC	ROBERT
841.0	[m]	DC	ROBERT
843.5	[m]	SWC	ROBERT
844.0	[m]	DC	ROBERT
847.0	[m]	DC	ROBERT
850.0	[m]	DC	ROBERT
850.5	[m]	SWC	ROBERT
853.0	[m]	DC	ROBERT
856.0	[m]	DC	ROBERT
859.0	[m]	DC	ROBERT
868.0	[m]	DC	ROBERT
877.0	[m]	DC	ROBERT
883.0	[m]	SWC	ROBERT
886.0	[m]	DC	ROBERT
890.7	[m]	SWC	ROBERT
895.0	[m]	DC	ROBERT

900.0	[m]	SWC	ROBERT
904.0	[m]	DC	ROBERT
913.0	[m]	DC	ROBERT
922.0	[m]	DC	ROBERT
931.0	[m]	DC	ROBERT
938.0	[m]	SWC	ROBERT
940.0	[m]	DC	ROBERT
949.0	[m]	DC	ROBERT
958.0	[m]	DC	ROBERT
967.0	[m]	DC	ROBERT
976.0	[m]	DC	ROBERT
978.5	[m]	SWC	ROBERT
985.0	[m]	DC	ROBERT
989.0	[m]	SWC	ROBERT
994.0	[m]	DC	ROBERT
1003.0	[m]	DC	ROBERT
1012.0	[m]	DC	ROBERT
1021.0	[m]	DC	ROBERT
1030.0	[m]	DC	ROBERT
1039.0	[m]	DC	ROBERT
1048.0	[m]	DC	ROBERT
1057.0	[m]	DC	ROBERT
1066.0	[m]	DC	ROBERT
1075.0	[m]	DC	ROBERT
1084.0	[m]	DC	ROBERT
1090.0	[m]	DC	ROBERT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
484	NORDLAND GP
484	NAUST FM
544	ADVENTDALEN GP
544	KOLMULE FM
694	KOLJE FM
737	KNURR FM
755	HEKKINGEN FM
757	FUGLEN FM
849	KAPP TOSCANA GP

849	STØ FM
871	FRUHOLMEN FM
894	SNADD FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI MSIP	790	1090
HRLA ZAIT PEX ECS	689	1098
MDT	853	1080
MSCT	843	989
MSIP PEX ECS ZAIT	484	791
MWD - TELE	482	536
MWD - TELE ARCVRES8	536	794
MWD - TELE675 RAB6 PERI15	791	1090
VSP	480	1080

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	533.0	36	536.0	0.00	
INTERM.	13 3/8	629.1	17 1/2	639.0	1.20	FIT
PILOT HOLE		640.0	8 1/2	640.0	0.00	
LINER	9 5/8	790.0	12 1/4	791.0	1.47	FIT
OPEN HOLE		1090.0	8 1/2	1090.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
593	1.12	15.0		KCl/Polymer/GEM	
791	1.14	17.0		Low Sulphate/KCl/Polymer/Glycol	
791	1.12	21.0		KCl/Polymer/Glycol	
791	1.12	21.0		KCl/Polymer/Glycol	
791	1.14	17.0		Low Sulphate/KCl/Polymer/Glycol	

825	1.14	17.0		Low Sulphate/KCl/Polymer/Glycol	
1090	1.14	18.0		Low Sulphate/KCl/Polymer/Glycol	