



Generell informasjon

Brønnbane navn	7123/4-1 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Felt	SNØHVIT
Funn	7122/6-1 (Tornerose)
Brønn navn	7123/4-1
Seismisk lokalisering	3D Survey:ST05M09.inline 3346 & crossline 5812
Utvinningstillatelse	110 C
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1173-L
Boreinnretning	POLAR PIONEER
Boredager	24
Borestart	21.04.2008
Boreslutt	14.05.2008
Frigitt dato	14.05.2010
Publiseringsdato	14.05.2010
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	413.0
Totalt målt dybde (MD) [m RKB]	2855.0
Totalt vertikalt dybde (TVD) [m RKB]	2626.0
Maks inklinasjon [°]	45
Temperatur ved bunn av brønnbanen [°C]	94
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SNADD FM
Geodetisk datum	ED50
NS grader	71° 36' 49.3" N
ØV grader	23° 3' 48.7" E



NS UTM [m]	7947301.07
ØV UTM [m]	572637.44
UTM sone	34
NPDID for brønnbanen	5808

Brønnhistorie

**General**

The 7123/4-1 S and its sidetrack 7123/4-1 A Tornerose wells were drilled ca 50 km east of the Snøhvit Field in the Hammerfest Basin. The primary objective was to prove additional gas reserves in the Tornerose structure, east of the discovery wells 7122/6-1 and 7122/6-2. The Triassic reservoir was prognosed as similar to the reservoir encountered in 7122/6-1.

Operations and results

Well 7123/4-1 S was spudded with the semi-submersible installation Polar Pioneer on 12 March 2008. Due to junk in hole in the 17 1/2" section it was impossible to drill beyond 726 m. The primary well was thus plugged back and a technical sidetrack was made with kick-off at 681 m (termed 7123/4-1 ST2 in well reports, but no such distinction is made here). 7123/4-1 S was drilled to TD at 2920 m (2706.4 m TVD) in the Triassic Snadd Formation. Thereafter, on 14 May, a sidetrack 7123/4-1 A was kicked off from 1659 m and drilled to a depth of 2855.1 m (2626.3 m TVD) in the Triassic Snadd Formation. No shallow gas was observed by the ROV at the wellhead or by the MWD while drilling the 36" hole and the 17 1/2" hole sections. The top hole down to 1106 m was drilled with seawater/bentonite and CaCl₂/polymer mud. Below 1106 m FormPro mud was used in both well tracks.

Well 7123/4-1 S penetrated rocks of Quaternary, Tertiary, Cretaceous, Jurassic and Triassic ages. In well 7123/4-1 S the Snadd reservoir was penetrated at 2266.2 m (2222.6 m TVD), 41 m shallower than prognosis. Top Carnian reservoir within the Snadd Formation was penetrated at 2459.0 m (2364.1 m TVD), 28.9 meter shallower than prognosis. Two cores were cut in 7123/4-1 S in the Snadd Formation. The first core was cut in a thin sand above the Carnian reservoir from 2435 to 2452 m, while the second core was cut covering middle to lower parts of Carnian reservoir T1 and upper parts of Carnian reservoir T2 from 2474 to 2501 m. Pressure points were taken in the Capp Toscana Group and the Snadd Formation, whereas 1 gallon sample (MDT fluid sample) was taken in Carnian reservoir T2 (Snadd Formation).

In sidetrack 7123/4-1 A the Snadd reservoir was penetrated at 2259.0 m (2185.1 m TVD), 14.3 m deeper than prognosis. Top Carnian reservoir within the Snadd Formation was penetrated at 2525.0 m (2376 m TVD), 21 meter deeper than prognosis. In 7123/4-1 A one core was cut from 2670 to 2697 m in a thin sandy sequence approximately 17 meter below the base of the Carnian reservoir in the Snadd Formation. Pressure points were taken in the Capp Toscana Group, whereas MDT fluid samples were collected at 2165.9 m (water and oil), 2166.4 m (water only), 2534.1 m (water only), 2542.6 m (water and oil), and at 2551.5 m (water and oil).

High gas readings and fluorescence with cut on sandstone cuttings and cores in the Snadd Formation were reported in both wells. These shows were interpreted as residual hydrocarbons.

Well 7123/4-1 S was permanently abandoned on 21 April 2008, while the sidetrack 7123/4-1 A was permanently abandoned on 14 May 2008. Both were classified as dry as a dry with shows of residual hydrocarbons.

Testing

No drill stem test was performed.



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1660.00	2855.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2670.0	2696.6	[m]

Total kjerneprøve lengde [m]	26.6
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1600.0	[m]	DC	STATHYD
1680.0	[m]	DC	STATHY
1700.0	[m]	DC	STATHY
1720.0	[m]	DC	STATHY
1740.0	[m]	DC	STATHY
1760.0	[m]	DC	STATHY
1780.0	[m]	DC	STATHY
1800.0	[m]	DC	STATHY
1810.0	[m]	DC	STATHY
1830.0	[m]	DC	STATHY
1840.0	[m]	DC	STATHY
1860.0	[m]	DC	STATHY
1870.0	[m]	DC	STATHY
1890.0	[m]	DC	STATHY
1900.0	[m]	DC	STATHY
1930.0	[m]	DC	STATHY
1940.0	[m]	DC	STATHY
1960.0	[m]	DC	STATHY
1970.0	[m]	DC	STATHY
1990.0	[m]	DC	STATHY
2000.0	[m]	DC	STATHY
2020.0	[m]	DC	STATHY



2030.0	[m]	DC	STATHY
2050.0	[m]	DC	STATHY
2060.0	[m]	DC	STATHY
2080.0	[m]	DC	STATHY
2090.0	[m]	DC	STATHY
2108.0	[m]	DC	STATHY
2120.0	[m]	DC	STATHY
2144.0	[m]	DC	STATHY
2156.0	[m]	DC	STATHY
2162.0	[m]	DC	STATHY
2180.0	[m]	DC	STATHY
2186.0	[m]	DC	STATHY
2198.0	[m]	DC	STATHY
2204.0	[m]	DC	STATHY
2216.0	[m]	DC	STATHY
2228.0	[m]	DC	STATHY
2240.0	[m]	DC	STATHY
2246.0	[m]	DC	STATHY
2264.0	[m]	DC	STATHY
2270.0	[m]	DC	STATHY
2282.0	[m]	DC	STATHY
2288.0	[m]	DC	STATHY
2300.0	[m]	DC	STATHY
2306.0	[m]	DC	STATHY
2318.0	[m]	DC	STATHY
2330.0	[m]	DC	STATHY
2342.0	[m]	DC	STATHY
2348.0	[m]	DC	STATHY
2360.0	[m]	DC	STATHY
2366.0	[m]	DC	STATHY
2378.0	[m]	DC	STATHY
2384.0	[m]	DC	STATHY
2396.0	[m]	DC	STATHY
2402.0	[m]	DC	STATHY
2414.0	[m]	DC	STATHY
2420.0	[m]	DC	STATHY
2432.0	[m]	DC	STATHY
2438.0	[m]	DC	STATHY
2450.0	[m]	DC	STATHY
2456.0	[m]	DC	STATHY



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 9.5.2024 - 14:46

2468.0	[m]	DC	STATHY
2474.0	[m]	DC	STATHY
2486.0	[m]	DC	STATHY
2492.0	[m]	DC	STATHY
2504.0	[m]	DC	STATHY
2510.0	[m]	DC	STATHY
2522.0	[m]	DC	STATHY
2528.0	[m]	DC	STATHY
2540.0	[m]	DC	STATHY
2546.0	[m]	DC	STATHY
2558.0	[m]	DC	STATHY
2564.0	[m]	DC	STATHY
2576.0	[m]	DC	STATHY
2582.0	[m]	DC	STATHY
2594.0	[m]	DC	STATHY
2600.0	[m]	DC	STATHY
2612.0	[m]	DC	STATHY
2618.0	[m]	DC	STATHY
2630.0	[m]	DC	STATHY
2636.0	[m]	DC	STATHY
2648.0	[m]	DC	STATHY
2654.0	[m]	DC	STATHY
2666.0	[m]	DC	STATHY
2672.6	[m]	CC	STATHY
2675.9	[m]	CC	STATHY
2677.6	[m]	CC	STATHY
2680.5	[m]	CC	STATHY
2682.4	[m]	CC	STATHY
2686.9	[m]	CC	STATHY
2687.6	[m]	CC	STATHY
2689.5	[m]	CC	STATHY
2691.2	[m]	CC	STATHY
2692.6	[m]	CC	STATHY
2695.9	[m]	CC	STATHY
2700.0	[m]	DC	STATHY
2712.0	[m]	DC	STATHY
2724.0	[m]	DC	STATHY
2730.0	[m]	DC	STATHY
2742.0	[m]	DC	STATHY
2748.0	[m]	DC	STATHY



2760.0	[m]	DC	STATHY
2766.0	[m]	DC	STATHY
2778.0	[m]	DC	STATHY
2784.0	[m]	DC	STATHY
2796.0	[m]	DC	STATHY
2802.0	[m]	DC	STATHY
2814.0	[m]	DC	STATHY
2820.0	[m]	DC	STATHY
2832.0	[m]	DC	STATHY
2838.0	[m]	DC	STATHY
2850.0	[m]	DC	STATHY
2855.0	[m]	DC	STATHY

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
436	NORDLAND GP
495	SOTBAKKEN GP
495	TORSK FM
790	NYGRUNNEN GP
790	KVEITE FM
860	ADVENTDALEN GP
860	KOLMULE FM
1638	KOLJE FM
1943	KNURR FM
2001	HEKKINGEN FM
2091	KAPP TOSCANA GP
2091	STØ FM
2131	TUBÅEN FM
2141	FRUHOLMEN FM
2259	SNADD FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
5808	pdf	0.34





Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5808_01_7123_4_1A_gch_transfer_1	txt	0.00
5808_02_7123_4_1A_gch_results_1	txt	0.22

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR+ PEX HRLA NHGS ECS	1641	2806
FMI DSI	1641	2850
MDT	2094	2850
MDT MINI DST DP	2166	2490
MWD - GVR6 ARCVRES6 POWERPULSE	1656	2855
VSP ZO	1450	2855

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
OPEN HOLE		2855.0	8 1/2	2855.0	1.44	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1150	1.31	14.0		Form Pro	
1550	1.32	14.0		FormPro	
1606	1.33	15.0		FormPro	
1648	1.32	14.0		Form Pro	
1730	1.32	15.0		Form Pro	
1800	1.32	14.0		Form Pro	
1861	1.32	15.0		Form Pro	
2050	1.32	15.0		Form Pro	
2102	1.32	14.0		Form Pro	
2146	1.32	14.0		Form Pro	
2194	1.31	15.0		Form Pro	





2207	1.31	13.0		Form Pro	
2220	1.31	14.0		Form Pro	
2248	1.31	14.0		Form Pro	
2252	1.32	14.0		Form Pro	
2270	1.31	14.0		Form Pro	
2288	1.31	14.0		FormPro	
2317	1.31	15.0		FormPro	
2324	1.31	14.0		Form Pro	
2325	1.31	14.0		Form Pro	
2360	1.31	14.0		FormPro	
2440	1.31	14.0		Form Pro	
2529	1.32	14.0		Form Pro	
2615	1.31	14.0		FormPro	
2700	1.31	13.0		Form Pro	
2772	1.31	14.0		FormPro	
2841	1.31	15.0		FormPro	
2855	1.31	15.0		FormPro	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
5808 Formation pressure (Formasjonstrykk)	pdf	0.29

