



Generell informasjon





Brønnbane navn	7216/11-1 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Brønn navn	7216/11-1
Seismisk lokalisering	NH9803 INLINE A 2940 & X-LINE A 4882
Utvinningstillatelse	221
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	980-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	53
Borestart	24.07.2000
Boreslutt	14.09.2000
Frigitt dato	14.09.2002
Publiseringsdato	11.04.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	361.0
Totalt målt dybde (MD) [m RKB]	4239.0
Totalt vertikalt dybde (TVD) [m RKB]	3733.2
Maks inklinasjon [°]	52.4
Temperatur ved bunn av brønnbanen [°C]	114
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	TORSK FM
Geodetisk datum	ED50
NS grader	72° 0' 56.72" N
ØV grader	16° 36' 22" E
NS UTM [m]	7991645.42
ØV UTM [m]	555345.64
UTM sone	33
NPDID for brønnbanen	4129



Brønnhistorie

General

The objective for well 7216/11-1 S was to test the hydrocarbon potential of the A-structure in PL221. Three target horizons were defined in the Palaeogene Lower Torsk Formation (Sotbakken Group). The primary objective was to test the hydrocarbon potential of the A1 prospect, defined as a closure along the flanks of the "A1" horst block at Early Eocene & Late Palaeocene level. The secondary and tertiary objectives were to test the reservoir and hydrocarbon potential of the "A2" and "A3" prospects in the horst block further to the west. The well was originally planned as a straight vertical well east of the horst. The volumes that would be left up dip were, however, considerable. Early in the planning stage the licence therefore decided to drill the well as a deviated borehole.

Operations and results

Exploration well 7216/11-1 S was spudded with the semi-submersible installation "Transocean Arctic" on 24 July 2000 and drilled deviated to TD at 4239 m (3733.2 m TVD) in Late Palaeocene sediments of the Torsk Formation. The well was drilled water based with bentonite mud down to 1004 m, and with the "GLYDRIL" mud system from 1004 m to TD. A total of 30 m gross reservoir sequence of excellent quality turbidite sandstone was penetrated in the Late Palaeocene A1 Structure. The reservoirs of the prognosed A2 and A3 prospects were not developed. No HC was encountered in the A1 Formations. No shows were observed while drilling the well. No shows were recorded at well site. After core no 1 was brought onshore and slabbed a bright blue yellow fluorescence was observed in the interval 2991 - 2991.5 m. Neither oil stain nor petroleum odour was observed on the cores. The cuttings gas log indicated an increase in wetness through the claystones above the A1 reservoir, with a maximum wetness in the top of A1. The MWD logs indicated, however, that this sequence was water bearing. Two conventional cores were cut in the Torsk Formation: Core 1 recovered claystone / sandstone from 2988.0 m - 2996.4 m, while core 2 recovered claystone / shale from 4230.0 m & 4238.0 m. One MDT (Modular formation Dynamics Tester) was carried out, but fluid samples were not taken. Due to an obstruction in hole at 2806 m MD, neither logging on wire, TLC or CST was performed in the 8 1/2" section. Thus, only MWD / LWD logs exist from this section. No fluid contacts or fluid gradients was identified from the log and pressure data. A thin gas bearing sand was however observed from density/neutron log at 2012 m. The well was permanently abandoned as a dry well on 14 September 2000.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1010.00	4230.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2988.0	2996.4	[m]
2	4230.0	4238.0	[m]

Total kjerneprøve lengde [m]	16.4
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2988-2993m



2993-2997m



4230-4231m



4231-4236m



4236-4238m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1450.0	[m]	SWC	OD
1550.0	[m]	SWC	OD
1640.0	[m]	SWC	OD
1700.0	[m]	SWC	OD
1760.0	[m]	SWC	OD
1820.0	[m]	SWC	OD
1880.0	[m]	SWC	OD
1940.0	[m]	SWC	OD
2000.0	[m]	SWC	OD
2000.0	[m]	DC	OD
2010.0	[m]	DC	OD
2020.0	[m]	DC	OD
2030.0	[m]	DC	OD
2040.0	[m]	DC	OD
2050.0	[m]	DC	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 02:42

2060.0	[m]	DC	OD
2070.0	[m]	DC	OD
2080.0	[m]	DC	OD
2090.0	[m]	DC	OD
2090.0	[m]	SWC	OD
2100.0	[m]	DC	OD
2110.0	[m]	DC	OD
2120.0	[m]	DC	OD
2130.0	[m]	DC	OD
2140.0	[m]	DC	OD
2150.0	[m]	SWC	OD
2150.0	[m]	DC	OD
2160.0	[m]	DC	OD
2170.0	[m]	DC	OD
2180.0	[m]	SWC	OD
2180.0	[m]	DC	OD
2190.0	[m]	DC	OD
2200.0	[m]	DC	OD
2205.0	[m]	DC	OD
2210.0	[m]	DC	OD
2215.0	[m]	DC	OD
2220.0	[m]	DC	OD
2225.0	[m]	DC	OD
2230.0	[m]	DC	OD
2235.0	[m]	DC	OD
2240.0	[m]	SWC	OD
2240.0	[m]	DC	OD
2245.0	[m]	DC	OD
2250.0	[m]	DC	OD
2255.0	[m]	DC	OD
2255.0	[m]	DC	OD
2260.0	[m]	DC	OD
2265.0	[m]	DC	OD
2270.0	[m]	DC	OD
2275.0	[m]	DC	OD
2280.0	[m]	DC	OD
2285.0	[m]	DC	OD
2290.0	[m]	DC	OD
2295.0	[m]	DC	OD
2300.0	[m]	SWC	OD



2300.0	[m]	DC	OD
2305.0	[m]	DC	OD
2310.0	[m]	DC	OD
2315.0	[m]	DC	OD
2320.0	[m]	SWC	OD
2320.0	[m]	DC	OD
2325.0	[m]	DC	OD
2330.0	[m]	SWC	OD
2330.0	[m]	DC	OD
2335.0	[m]	DC	OD
2340.0	[m]	DC	OD
2345.0	[m]	DC	OD
2350.0	[m]	DC	OD
2355.0	[m]	DC	OD
2360.0	[m]	SWC	OD
2360.0	[m]	DC	OD
2365.0	[m]	DC	OD
2370.0	[m]	DC	OD
2375.0	[m]	DC	OD
2380.0	[m]	SWC	OD
2380.0	[m]	DC	OD
2385.0	[m]	DC	OD
2390.0	[m]	SWC	OD
2390.0	[m]	DC	OD
2395.0	[m]	DC	OD
2400.0	[m]	DC	OD
2402.0	[m]	SWC	OD
2405.0	[m]	DC	OD
2410.0	[m]	DC	OD
2415.0	[m]	DC	OD
2420.0	[m]	SWC	OD
2420.0	[m]	DC	OD
2425.0	[m]	DC	OD
2430.0	[m]	DC	OD
2435.0	[m]	DC	OD
2440.0	[m]	DC	OD
2445.0	[m]	DC	OD
2450.0	[m]	DC	OD
2455.0	[m]	DC	OD
2460.0	[m]	DC	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 02:42

2465.0	[m]	DC	OD
2470.0	[m]	DC	OD
2475.0	[m]	DC	OD
2480.0	[m]	SWC	OD
2480.0	[m]	DC	OD
2485.0	[m]	DC	OD
2490.0	[m]	DC	OD
2495.0	[m]	DC	OD
2500.0	[m]	DC	OD
2505.0	[m]	DC	OD
2510.0	[m]	SWC	OD
2510.0	[m]	DC	OD
2515.0	[m]	DC	OD
2520.0	[m]	DC	OD
2525.0	[m]	DC	OD
2530.0	[m]	DC	OD
2535.0	[m]	DC	OD
2540.0	[m]	DC	OD
2545.0	[m]	DC	OD
2550.0	[m]	SWC	OD
2550.0	[m]	DC	OD
2555.0	[m]	DC	OD
2560.0	[m]	DC	OD
2565.0	[m]	DC	OD
2570.0	[m]	DC	OD
2575.0	[m]	DC	OD
2580.0	[m]	DC	OD
2585.0	[m]	DC	OD
2590.0	[m]	DC	OD
2595.0	[m]	DC	OD
2600.0	[m]	SWC	OD
2600.0	[m]	DC	OD
2605.0	[m]	DC	OD
2610.0	[m]	DC	OD
2615.0	[m]	DC	OD
2620.0	[m]	DC	OD
2625.0	[m]	DC	OD
2630.0	[m]	DC	OD
2635.0	[m]	DC	OD
2640.0	[m]	DC	OD



2645.0	[m]	DC	OD
2650.0	[m]	DC	OD
2655.0	[m]	DC	OD
2660.0	[m]	SWC	OD
2660.0	[m]	DC	OD
2660.0	[m]	DC	OD
2665.0	[m]	DC	OD
2670.0	[m]	DC	OD
2675.0	[m]	DC	OD
2680.0	[m]	DC	OD
2685.0	[m]	DC	OD
2690.0	[m]	SWC	OD
2690.0	[m]	DC	OD
2695.0	[m]	DC	OD
2700.0	[m]	DC	OD
2750.0	[m]	SWC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
385	NORDLAND GP
2397	SOTBAKKEN GP
2397	TORSK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4129	pdf	0.67

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4129_1	pdf	1.80
4129_2	pdf	1.97
4129_3	pdf	1.84
4129_4	pdf	1.95





4129 5	pdf	1.95
4129 6	pdf	1.83
4129 7	pdf	0.83

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4129 7216 11 1 S COMPLETION LOG	.pdf	1.71
4129 7216 11 1 S COMPLETION REPORT	.PDF	8.38

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CST - TLC	1440	2686
CST - WIRELINE	2570	2750
MDT	1435	1586
MWD MPR - GR RES DIR	386	4239
MWD ORD/CNN - SON DENS POR	2758	4239
PEX DSI SP	999	2752
SWC	1390	2750
VSP	1100	2750

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	507.0	36	507.0	1.46	LOT
SURF.COND.	20	999.0	26	1000.0	1.58	LOT
INTERM.	13 3/8	1390.0	17 1/2	1437.0	1.58	LOT
INTERM.	9 5/8	2750.0	12 1/4	2758.0	1.72	LOT
OPEN HOLE		4239.0	8 1/2	4239.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
450	1.38	13.0		WATER BASED	





685	1.46	23.0		WATER BASED	
1004	1.03			WATER BASED	
1012	1.30			WATER BASED	
1094	1.30	15.0		WATER BASED	
1337	1.38	16.0		WATER BASED	
1390	1.39	16.0		WATER BASED	
1395	0.00	16.0		WATER BASED	
1437	1.38	16.0		WATER BASED	
1650	1.39	14.0		WATER BASED	
1841	1.46	18.0		WATER BASED	
1888	1.46	23.0		WATER BASED	
2195	1.46	17.0		WATER BASED	
2400	1.46	18.0		WATER BASED	
2618	1.46	20.0		WATER BASED	
2696	1.55	25.0		WATER BASED	
2758	1.46	22.0		WATER BASED	
2793	1.30	13.0		WATER BASED	
2941	0.00	14.0		WATER BASED	
2988	1.30	14.0		WATER BASED	
3011	0.00	14.0		WATER BASED	
3170	1.31	15.0		WATER BASED	
3273	1.46	17.0		WATER BASED	
3511	1.52	19.0		WATER BASED	
3604	1.52	23.0		WATER BASED	
3861	1.52	24.0		WATER BASED	
4041	1.52	25.0		WATER BASED	
4183	1.52	24.0		WATER BASED	
4230	1.55	27.0		WATER BASED	
4239	1.55	25.0		WATER BASED	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2988.03	[m]
2989.03	[m]
2991.50	[m]
2992.75	[m]
2993.02	[m]



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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
4129 Formation pressure (Formasjonstrykk)	pdf	0.27

