



Generell informasjon

Brønnbane navn	7223/5-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7223/5-1
Brønn navn	7223/5-1
Seismisk lokalisering	3D Survey : SG9804:inline 8505 & xline 6895
Utvinningstillatelse	228
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1209-L
Boreinnretning	POLAR PIONEER
Boredager	41
Borestart	05.12.2008
Boreslutt	14.01.2009
Frigitt dato	03.01.2011
Publiseringsdato	03.01.2011
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	TRIASSIC
1. nivå med hydrokarboner, formasjon.	SNADD FM
2. nivå med hydrokarboner, alder	MIDDLE TRIASSIC
2. nivå med hydrokarboner, formasjon	KOBBE FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	340.0
Totalt målt dybde (MD) [m RKB]	2549.0
Totalt vertikalt dybde (TVD) [m RKB]	2548.6
Maks inklinasjon [°]	2.5
Eldste penetrerte alder	EARLY TRIASSIC
Eldste penetrerte formasjon	KLAPPMYSS FM



Geodetisk datum	ED50
NS grader	72° 32' 6.18" N
ØV grader	23° 20' 7.74" E
NS UTM [m]	8052579.21
ØV UTM [m]	377307.19
UTM sone	35
NPDID for brønnbanen	5960

Brønnhistorie

**General**

Well 7223/5-1 was drilled on the Bjarmeland Platform, south of the Swaen Graben, east of the Loppa High in the Barents Sea. The primary objective was to prove oil or gas in a new segment of Ladinian channel complex in the Obesum prospect. The location was chosen in order to test several plays and seismic amplitude anomalies in the Triassic Snadd and Kobbe Formations, and to avoid shallow gas anomalies.

Operations and results

A 9 7/8" pilot hole was drilled to 607 m to check for shallow gas. Some sands were penetrated, but no signs of shallow gas were seen. Well 7223/5-1 was spudded with the semi-submersible installation Polar Pioneer on 4 December 2008 and drilled to TD at 2549 m in the Early Triassic Klappmyss Formation. A leakage on the BOP control system was discovered while drilling the 12 1/4" section. The BOP and riser was pulled and repaired; this took 75 hrs. Otherwise no significant technical problem occurred. The well was drilled with seawater/CaCl₂/Polymer mud down to 602 m and with Glydril WBM from 602 m to TD.

The Snadd Formation was encountered at 585 m and was 1271 m thick. The underlying Kobbe Formation was encountered at 1856 m and was 595 m thick. Hydrocarbons (gas) were observed in Snadd Formation in fluvial sandstones of Ladinian age and in the Kobbe Formation in sandstones of Anisian age. A lower Snadd Formation reservoir penetrated at 1575 m had 60 m gross sandstone with 17 m net gas bearing reservoir, but gas saturation was probably very low. Several sandstone intervals in the Kobbe Formation contained gas but the reservoirs were of very poor quality. Oil shows in the form of fluorescence were recorded at several levels in the Kobbe Formation.

Two cores were cut in the intervals 1579-1595 m in the Snadd formation and 1933-1946 m in the Kobbe formation. MSCT (Mechanical Sidewall Coring Tool) cores were also sampled during TD logging. In the Snadd Formation water and gas were sampled. A water sample was collected at 1584.6 m with dual packer after pumping of 242 litre of fluid. The sample had high contamination level of 14 %. At 1578.4 m gas samples were collected both with large diameter probe and dual packer. The drawdown with the probe was 40 - 45 bar, while with the dual packer a drawdown of approximately 0.9 Bar was observed. The water sample at 1590.3 m was collected with the single probe. The formation had poor reservoir properties and just a few litres were pumped. The sample contained mainly mud filtrate with a small fraction of formation water. In the Kobbe Formation gas samples were collected 1919.9 m. Due to poor reservoir properties the samples were collected with the dual packer. During the sampling a drawdown of approximately 18 Bar was observed.

The well was permanently abandoned on 5 December 2008 as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
610.00	2550.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1579.0	1593.2	[m]
2	1933.0	1945.8	[m]

Total kjerneprøve lengde [m]	27.0
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
610.0	[m]	DC	FUGRO
620.0	[m]	DC	FUGRO
640.0	[m]	DC	FUGRO
650.0	[m]	DC	FUGRO
670.0	[m]	DC	FUGRO
680.0	[m]	DC	FUGRO
700.0	[m]	DC	FUGRO
710.0	[m]	DC	FUGRO
730.0	[m]	DC	FUGRO
740.0	[m]	DC	FUGRO
760.0	[m]	DC	FUGRO
770.0	[m]	DC	FUGRO
790.0	[m]	DC	FUGRO
800.0	[m]	DC	FUGRO
820.0	[m]	DC	FUGRO
830.0	[m]	DC	FUGRO
850.0	[m]	DC	FUGRO
860.0	[m]	DC	FUGRO
880.0	[m]	DC	FUGRO
910.0	[m]	DC	FUGRO
920.0	[m]	DC	FUGRO
940.0	[m]	DC	FUGRO
950.0	[m]	DC	FUGRO
970.0	[m]	DC	FUGRO
980.0	[m]	DC	FUGRO
1000.0	[m]	DC	FUGRO



1010.0 [m]	DC	FUGRO
1030.0 [m]	DC	FUGRO
1040.0 [m]	DC	FUGRO
1060.0 [m]	DC	FUGRO
1070.0 [m]	DC	FUGRO
1090.0 [m]	DC	FUGRO
1100.0 [m]	DC	FUGRO
1128.0 [m]	DC	FUGRO
1137.0 [m]	DC	FUGRO
1152.0 [m]	DC	FUGRO
1161.0 [m]	DC	FUGRO
1173.0 [m]	DC	FUGRO
1206.0 [m]	DC	FUGRO
1227.0 [m]	DC	FUGRO
1236.0 [m]	DC	FUGRO
1251.0 [m]	DC	FUGRO
1272.0 [m]	DC	FUGRO
1296.0 [m]	DC	FUGRO
1311.0 [m]	DC	FUGRO
1329.0 [m]	DC	FUGRO
1353.0 [m]	DC	FUGRO
1374.0 [m]	DC	FUGRO
1383.0 [m]	DC	FUGRO
1401.0 [m]	DC	FUGRO
1419.0 [m]	DC	FUGRO
1428.0 [m]	DC	FUGRO
1443.0 [m]	DC	FUGRO
1458.0 [m]	DC	FUGRO
1467.0 [m]	DC	FUGRO
1485.0 [m]	DC	FUGRO
1503.0 [m]	DC	FUGRO
1518.0 [m]	DC	FUGRO
1536.0 [m]	DC	FUGRO
1579.9 [m]	C	FUGRO
1587.7 [m]	C	FUGRO
1588.8 [m]	C	FUGRO
1592.3 [m]	C	FUGRO
1602.0 [m]	DC	FUGRO
1611.0 [m]	DC	FUGRO
1620.0 [m]	DC	FUGRO



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 01:02

1629.0 [m]	DC	FUGRO
1638.0 [m]	DC	FUGRO
1647.0 [m]	DC	FUGRO
1656.0 [m]	DC	FUGRO
1665.0 [m]	DC	FUGRO
1674.0 [m]	DC	FUGRO
1683.0 [m]	DC	FUGRO
1692.0 [m]	DC	FUGRO
1701.0 [m]	DC	FUGRO
1710.0 [m]	DC	FUGRO
1719.0 [m]	DC	FUGRO
1728.0 [m]	DC	FUGRO
1737.0 [m]	DC	FUGRO
1746.0 [m]	DC	FUGRO
1755.0 [m]	DC	FUGRO
1764.0 [m]	DC	FUGRO
1773.0 [m]	DC	FUGRO
1782.0 [m]	DC	FUGRO
1791.0 [m]	DC	FUGRO
1800.0 [m]	DC	FUGRO
1809.0 [m]	DC	FUGRO
1818.0 [m]	DC	FUGRO
1827.0 [m]	DC	FUGRO
1836.0 [m]	DC	FUGRO
1848.0 [m]	DC	FUGRO
1857.0 [m]	DC	FUGRO
1866.0 [m]	DC	FUGRO
1875.0 [m]	DC	FUGRO
1884.0 [m]	DC	FUGRO
1893.0 [m]	DC	FUGRO
1902.0 [m]	DC	FUGRO
1911.0 [m]	DC	FUGRO
1920.0 [m]	DC	FUGRO
1933.4 [m]	C	FUGRO
1936.5 [m]	C	FUGRO
1940.3 [m]	C	FUGRO
1942.5 [m]	C	FUGRO
1945.4 [m]	C	FUGRO
1953.0 [m]	DC	FUGRO
1962.0 [m]	DC	FUGRO



1971.0	[m]	DC	FUGRO
1980.0	[m]	DC	FUGRO
1989.0	[m]	DC	FUGRO
1998.0	[m]	DC	FUGRO
2007.0	[m]	DC	FUGRO
2013.0	[m]	DC	FUGRO
2022.0	[m]	DC	FUGRO
2031.0	[m]	DC	FUGRO
2040.0	[m]	DC	FUGRO
2049.0	[m]	DC	FUGRO
2058.0	[m]	DC	FUGRO
2067.0	[m]	DC	FUGRO
2073.0	[m]	DC	FUGRO
2082.0	[m]	DC	FUGRO
2091.0	[m]	DC	FUGRO
2100.0	[m]	DC	FUGRO
2112.0	[m]	DC	FUGRO
2121.0	[m]	DC	FUGRO
2130.0	[m]	DC	FUGRO
2142.0	[m]	DC	FUGRO
2148.0	[m]	DC	FUGRO
2160.0	[m]	DC	FUGRO
2166.0	[m]	DC	FUGRO
2178.0	[m]	DC	FUGRO
2184.0	[m]	DC	FUGRO
2196.0	[m]	DC	FUGRO
2202.0	[m]	DC	FUGRO
2214.0	[m]	DC	FUGRO
2220.0	[m]	DC	FUGRO
2232.0	[m]	DC	FUGRO
2238.0	[m]	DC	FUGRO
2250.0	[m]	DC	FUGRO
2256.0	[m]	DC	FUGRO
2268.0	[m]	DC	FUGRO
2274.0	[m]	DC	FUGRO
2292.0	[m]	DC	FUGRO
2298.0	[m]	DC	FUGRO
2310.0	[m]	DC	FUGRO
2316.0	[m]	DC	FUGRO
2316.0	[m]	DC	FUGRO



2328.0	[m]	DC	FUGRO
2334.0	[m]	DC	FUGRO
2352.0	[m]	DC	FUGRO
2364.0	[m]	DC	FUGRO
2370.0	[m]	DC	FUGRO
2382.0	[m]	DC	FUGRO
2388.0	[m]	DC	FUGRO
2400.0	[m]	DC	FUGRO
2406.0	[m]	DC	FUGRO
2418.0	[m]	DC	FUGRO
2424.0	[m]	DC	FUGRO
2436.0	[m]	DC	FUGRO
2442.0	[m]	DC	FUGRO
2454.0	[m]	DC	FUGRO
2460.0	[m]	DC	FUGRO
2472.0	[m]	DC	FUGRO
2478.0	[m]	DC	FUGRO
2490.0	[m]	DC	FUGRO
2496.0	[m]	DC	FUGRO
2508.0	[m]	DC	FUGRO
2514.0	[m]	DC	FUGRO
2526.0	[m]	DC	FUGRO
2532.0	[m]	DC	FUGRO
2544.0	[m]	DC	FUGRO
2550.0	[m]	DC	FUGRO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
363	NORDLAND GP
467	ADVENTDALEN GP
467	KOLMULE FM
501	KAPP TOSCANA GP
501	STØ FM
508	NORDMELA FM
524	TUBÅEN FM
540	FRUHOLMEN FM
585	SNADD FM
1856	SASSENDALEN GP



1856	KOBBE FM
2451	KLAPPMYSS FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
5960	pdf	0.45

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI HNGS HRLA	1106	2549
MDT PRESSURE	1176	1634
MDT SAMPLE	1919	1919
MSCT	1106	2549
MWD LWD - ARCVRES6 GVR6 TELESCOP	1110	2549
MWD LWD - ARCVRES9 POWERPULSE	417	1110
MWD LWD - POWERPULSE	363	417
PEX DSI	577	1169
PEX ECS CMR MSIP	1106	2549
VSP	366	2544

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	412.0	36	417.0	0.00	LOT
SURF.COND.	13 3/8	587.0	17 1/2	602.0	2.76	LOT
INTERM.	9 5/8	1109.0	12 1/4	1110.0	2.87	LOT
OPEN HOLE		2549.0	8 1/2	2549.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1110	1.30	23.0		Glydril	
1220	1.30	18.0		Glydril	
1929	1.30	17.0		Glydril	
2549	1.30	16.0		Glydril	
2549	1.30	16.0		Glydril	
2549	1.29	18.0		Glydril	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
1586.75	[m]
1579.10	[m]
1591.25	[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 brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
5960 Formation pressure (Formasjonstrykk)	pdf	0.28

