



Generell informasjon

Brønnbane navn	7128/4-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7128/4-1 (Omd Vest)
Brønn navn	7128/4-1
Seismisk lokalisering	ST 9103-417 & SP. 288
Utvinningstillatelse	180
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	779-L
Boreinnretning	ROSS RIG (2)
Boredager	72
Borestart	17.12.1993
Boreslutt	26.02.1994
Frigitt dato	26.02.1996
Publiseringsdato	11.04.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE PERMIAN
1. nivå med hydrokarboner, formasjon.	RØYE FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	370.0
Totalt målt dybde (MD) [m RKB]	2530.0
Totalt vertikalt dybde (TVD) [m RKB]	2528.1
Maks inklinasjon [°]	4.8
Temperatur ved bunn av brønnbanen [°C]	82
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	71° 32' 27.33" N
ØV grader	28° 4' 54.08" E



NS UTM [m]	7938285.08
ØV UTM [m]	538226.27
UTM sone	35
NPDID for brønnbanen	2049

Brønnhistorie

**General**

Well 7128/4-1 is located in the Finmark Øst area. The main objective for the well was to test the potential for hydrocarbons in Visean sandstone on the "Omd Vest" structure. The secondary objective was to test the hydrocarbon potential, reservoir and trap possibilities of the Asselian - Sakmarian carbonates and the upper Permian succession.

Operations

Exploration well 7128/4-1 was spudded with the semi-submersible installation "Ross Rig" on 17 December 1993 and drilled to TD at 2530 m in pre-Devonian basement rocks, 27 m below base of the Early Carboniferous Soldogg Formation. The well was drilled with seawater and bentonite / CMC EHV spud mud down to 770 m and with GYP/PAC mud from 770 m to TD.

The well penetrated Quaternary, Tertiary, Triassic, Permian, and Carboniferous sediments. The Cretaceous and Jurassic sequences were not present. Gas chromatography readings during drilling and log evaluation indicated gas saturation in the primary target. The sandstone was very tight and therefore not production tested. However, the Late Permian spiculite was partly very porous and permeable with a gas cap over moveable oil. A GOC was indicated at 1575 m.

A total of five conventional cores were cut in the well 1574 m to 1577 m (Late Permian Røye Formation), 1814 m to 1837 m (Isbjørn and Ørn Formations of Early Permian age), 1837 m to 1865 m (Early Permian Ørn Formation), 2362 m to 2389.47 m (Early Carboniferous Soldogg Formation), and 2526 m to 2530 m (Pre-Devonian basement).

FMT wire line samples were obtained from three levels: 1572.7 m, 1576 m, and 1588.8 m. In the FMT samples taken at 1572.7 m, the 10-litre chamber contained 0.106 m³ of gas with an initial pressure of 8274 kPa. The 4-litre chamber contained 183 litre of gas, 0.5 ml of oil and 1380 ml of water/mud filtrate. Geco measured the density of the gas to 0.637 (air = 1). For the samples taken at 1576 m the 10 litre chamber contained 2.5 litre of oil with a density of 0.81 g/cm³, 0.190 m³ of gas and the total liquid (mud filtrate + oil) volume was 9.3 litre. The 4 litre chamber contained 63.5 litre of gas, 225 ml of oil and the water volume was not possible to measure due to water leakage past the piston when the Geco transferred from FMT bottle to a PVT bottle. The gas gravity was measured to 0.790 (air = 1). The oil density of stabilized oil was measured to 0.817 g/cm³ at 15 °C. One 10-litre sample taken at 1588.8 m contained 2.5 litre of mud filtrate. The sampling aborted after 4 hrs and 17 min. The well was permanently abandoned on 26 February 1994 as an oil and gas discovery.

Testing

Two zones were perforated and tested: Test no. 1 from 1592 -1610 m, and test no. 2 from 1577 -1586 m. For test no. 1 both diesel and Nitrogen was used to increase the under-balance, but the well did not flow. Finally, after stimulation with HCl test no. 1 produced 320 000 Sm³/d gas, 17 m³/d oil, and 70 m³/d water on a 72 mm choke. The HCl stimulation may have affected the cement, and the producing interval was probably the porous spiculite at 1569 m to 1590 m. Test no. 2 produced 215 000 Sm³/d gas, 15 m³/d oil, and 85 m³/d water on a 25.4 mm choke.

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Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
780.00	2529.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1574.0	1576.3	[m]
2	1814.0	1836.0	[m]
3	1837.0	1865.7	[m]
4	2362.0	2389.5	[m]
5	2526.0	2528.5	[m]

Total kjerneprøve lengde [m]	82.9
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1574-1576m



1814-1818m



1818-1822m



1822-1826m



1826-1830m



1830-1834m



1834-1836m



1837-1841m



1841-1845m



1845-1849m



1849-1853m



1853-1857m



1857-1861m



1861-1865m



1865-1866m



2362-2366m



2362-2466m



2366-2370m



2366-2470m



2370-2374m



2370-2474m



2374-2378m



2374-2478m



2378-2382m



2378-2482m



2382-2386m



2382-2486m



2386-2390m



2386-2489m



2526-2529m

Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
892.0	[m]	SWC	STATO
925.0	[m]	SWC	STATO
981.0	[m]	SWC	STATO
1055.0	[m]	SWC	STATO
1281.0	[m]	SWC	STATO
1323.5	[m]	SWC	STATO
1339.0	[m]	SWC	STATO
1399.0	[m]	SWC	STATO
1514.5	[m]	SWC	STATO
1538.0	[m]	SWC	STATO
1543.0	[m]	SWC	STATO
1555.0	[m]	SWC	STATO
1561.0	[m]	SWC	STATO
1566.0	[m]	SWC	STATO
1568.5	[m]	SWC	STATO
1668.0	[m]	SWC	STATO



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 08:28

1682.5	[m]	SWC	STATO
1693.0	[m]	SWC	STATO
1701.5	[m]	SWC	STATO
1814.7	[m]	C	STATO
1819.6	[m]	C	STATO
1824.9	[m]	C	STATO
1828.2	[m]	C	STATO
1851.5	[m]	C	STATO
2009.0	[m]	SWC	STATO
2015.3	[m]	SWC	STATO
2057.0	[m]	SWC	STATO
2058.0	[m]	DC	UIB
2061.0	[m]	DC	UIB
2073.0	[m]	DC	UIB
2082.0	[m]	DC	UIB
2091.0	[m]	SWC	STATOIL
2094.0	[m]	DC	UIB
2097.0	[m]	DC	UIB
2103.0	[m]	SWC	STATOIL
2106.0	[m]	DC	UIB
2115.0	[m]	DC	UIB
2124.0	[m]	DC	UIB
2130.8	[m]	SWC	STATOIL
2133.0	[m]	DC	UIB
2145.0	[m]	DC	UIB
2160.0	[m]	DC	UIB
2169.0	[m]	DC	UIB
2170.0	[m]	SWC	STATOIL
2181.0	[m]	DC	UIB
2182.0	[m]	SWC	STATOIL
2205.0	[m]	DC	UIB
2211.0	[m]	SWC	STATOIL
2214.0	[m]	DC	UIB
2220.0	[m]	DC	UIB
2243.5	[m]	SWC	STATOIL
2244.0	[m]	DC	UIB
2253.0	[m]	DC	UIB
2256.0	[m]	DC	UIB
2257.0	[m]	SWC	STATOIL
2280.0	[m]	DC	UIB



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 08:28

2282.0	[m]	SWC	STATOIL
2283.0	[m]	DC	UIB
2286.0	[m]	DC	UIB
2286.0	[m]	SWC	STATOIL
2286.0	[m]	DC	UIB
2295.0	[m]	DC	UIB
2311.0	[m]	SWC	STATOIL
2313.0	[m]	DC	UIB
2328.0	[m]	DC	UIB
2331.5	[m]	SWC	STATOIL
2331.5	[m]	SWC	STATOI
2337.0	[m]	DC	UIB
2342.0	[m]	SWC	STATOIL
2343.0	[m]	DC	UIB
2343.0	[m]	DC	UIB
2349.0	[m]	DC	UIB
2349.0	[m]	DC	UIB
2358.0	[m]	DC	UIB
2358.0	[m]	DC	UIB
2363.7	[m]	SWC	STATOIL
2364.0	[m]	DC	UIB
2366.2	[m]	C	UIB
2366.6	[m]	C	UIB
2367.2	[m]	C	UIB
2368.7	[m]	C	UIB
2368.9	[m]	C	STATOIL
2375.3	[m]	C	STATOI
2376.0	[m]	C	UIB
2376.4	[m]	C	UIB
2376.6	[m]	C	UIB
2379.0	[m]	DC	UIB
2381.6	[m]	C	STATOIL
2384.5	[m]	C	UIB
2384.7	[m]	C	UIB
2385.6	[m]	C	UIB
2385.8	[m]	C	UIB
2386.1	[m]	C	UIB
2386.5	[m]	C	UIB
2389.2	[m]	C	UIB
2389.5	[m]	C	STATOIL



2391.0	[m]	DC	UIB
2394.0	[m]	DC	UIB
2396.0	[m]	SWC	STATOIL
2448.0	[m]	DC	UIB
2450.0	[m]	SWC	STATOIL
2472.0	[m]	DC	UIB
2527.4	[m]	DC	UIB

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1-1A	1610.00	1595.00		09.02.1994 - 00:00	YES
DST	DST1A-1B	1610.00	1577.00		10.02.1994 - 21:00	YES
DST	DST2	1577.00	0.00		17.02.1994 - 14:15	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
394	NORDLAND GP
494	KAPP TOSCANA GP
494	SNADD FM
504	SASSENDALLEN GP
504	KOBBE FM
748	KLAPPMYSS FM
1008	HAVERT FM
1569	TEMPELFJORDEN GP
1569	RØYE FM
1704	BJARMELAND GP
1704	ISBJØRN FM
1820	GIPSDALEN GP
1820	ØRN FM
1952	FALK FM
2058	BILLEFJORDEN GP
2058	TETTEGRAS FM
2351	SOLDOGG FM



2503	BASEMENT
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Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2049	pdf	0.41

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2049_1	pdf	1.84
2049_2	pdf	1.03
2049_3	pdf	1.91
2049_4	pdf	5.05

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2049_7128_4_1_COMPLETION_REPORT_AND_LOG	pdf	51.84

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1592	1610	72.0
2.0	1577	1586	25.4

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0		30.000		





Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	17	320000			18823
2.0	15	215000	0.797	0.638	14333

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBIL GR	1502	2469
CBL VDL GR	1100	1502
DIFL ACL ZDL CNL GR	1502	2023
DIFL ACL ZDL GR	750	1517
DIFL ACL ZDL GR	2432	2530
DIFL MAC SL GR	1502	2471
DLL MLL GR	1540	1718
FMT	1570	1594
FMT GR	1573	1574
FMT GR	1576	1576
FMT GR	1585	1589
FMT GR	1594	2447
FMT GR	1594	2420
FMT GR	1658	1685
MWD	460	2526
SHDT GR	1503	2463
SWC GR	756	1515
SWC GR	1533	1691
SWC GR	1693	2072
SWC GR	2076	2467
VSP GR	493	2460
ZDL CNL GR	1988	2469

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	455.0	36	455.0	0.00	LOT
INTERM.	20	750.0	26	750.0	1.40	LOT
INTERM.	13 3/8	1502.0	17 1/2	1504.0	1.74	LOT



INTERM.	9 5/8	2432.0	12 1/4	2432.0	1.50	LOT
OPEN HOLE		2530.0	8 1/2	2530.0	0.00	LOT
OPEN HOLE		2530.0	8 1/2	0.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
715	1.20	15.0		WATER BASED	
770	1.12	17.0		WATER BASED	
815	1.03	17.0		WATER BASED	
1307	1.20	18.0		WATER BASED	
1495	1.20	15.0		WATER BASED	
1525	1.20	18.0		WATER BASED	
1589	1.12			WATER BASED	
1701	1.20	19.0		WATER BASED	
1814	1.20	19.0		WATER BASED	
1951	1.20	21.0		WATER BASED	
2092	1.20	23.0		WATER BASED	
2141	1.20	26.0		WATER BASED	
2356	1.20	26.0		WATER BASED	
2468	1.10	9.0		WATER BASED	
2523	1.10	17.0		WATER BASED	
2530	1.12			WATER BASED	

Tynnslip i Sökkeldirektoratet

Dybde	Enhet
1574.15	[m]
1574.40	[m]
1575.92	[m]
1576.20	[m]
1574.30	[m]
1575.85	[m]
1815.12	[m]
1821.40	[m]
1849.50	[m]
1832.40	[m]
1837.80	[m]



1841.68	[m]
1843.90	[m]
1851.85	[m]
1855.50	[m]
1858.50	[m]
1861.55	[m]
1865.47	[m]
2362.23	[m]
2368.50	[m]
2382.75	[m]
2388.56	[m]
2527.98	[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]
2049 Formation pressure (Formasjonstrykk)	pdf	0.29

