



Generell informasjon

Brønnbane navn	7316/5-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7316/5-1
Brønn navn	7316/5-1
Seismisk lokalisering	NH 9109-112 & SP. 543.49
Utvinningstillatelse	184
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	740-L
Boreinnretning	POLAR PIONEER
Boredager	77
Borestart	21.07.1992
Boreslutt	05.10.1992
Frigitt dato	05.10.1994
Publiseringsdato	02.12.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EOCENE
1. nivå med hydrokarboner, formasjon.	TORSK FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	450.0
Totalt målt dybde (MD) [m RKB]	4027.0
Totalt vertikalt dybde (TVD) [m RKB]	4014.0
Maks inklinasjon [°]	12.5
Temperatur ved bunn av brønnbanen [°C]	183
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	KVEITE FM
Geodetisk datum	ED50
NS grader	73° 31' 11.89" N
ØV grader	16° 25' 59.7" E



NS UTM [m]	8159255.68
ØV UTM [m]	545381.15
UTM sone	33
NPDID for brønnbanen	1987

Brønnhistorie

**General**

Wildcat well 7316/5-1 is located in the Vestbakken Volcanic Province of Bjørnøya West area. The well is located about 150 km south Southwest of Bjørnøya, and about 150 km North-west of well 7219/9-1 which was used for correlation purposes.

The Primary objective of the well was the potential of Tertiary prospects at lower Oligocene and upper Eocene levels. A secondary objective was to undertake a sampling and coring programme to provide improved stratigraphical control in the area.

Operations and results

Well 7316/5-1 was spudded with the semi submersible installation Polar Pioneer 21 July 1992 and drilled to TD at 4027 m in the Late Cretaceous Nygrunnen Group. The first hole was drilled to 906 m where it had to be plugged and abandoned due to gas influx and lost circulation. The rig was moved 43.4 m and the well was re-spudded on 5 August. On the second attempt, an 8-1/2" pilot hole was drilled to 613 m. A drilling break with associated gas production was observed at 606 m and a cement plug was set over the interval 540 m to 597 m. The well was drilled with spud mud down to 921 m, with KCl / PHPA polymer mud from 921 m to 3800 m. From 3800 m to TD KCl was allowed to deplete naturally and the system was slowly converted to a higher temperature stable mud.

The Uppermost Sandstone of the Eocene Sotbakken Group B2 Member was encountered from 1340 m to 1383 m, and was considered to be gas bearing over the interval 1340 -1358.5 m. From a gross thickness of 43.0 m, a total net pay thickness of 9.75 m was calculated, giving a net/gross ratio of 0.23. Average porosity of 28.2% and average Sw of 35.9% was computed in the pay zone. A second sandstone was encountered from 1442 m to 1469 m in the Sotbakken Group B2 Member. Gross thickness of this Sand was 27.0 m, with average porosity of 32,1 %. It proved to be entirely water wet.

Numerous igneous intrusions were penetrated below 2976 m (Middle to Early Eocene level) throughout the well to TD. The intrusions were from 5 to 44 m thick.

No oil shows were recorded in the well. Gas peaks were recorded at 2973 m (3.04 % C1) and at 3063 m (14.1 % C1 ? C4). A total of three cores were cut at isolated intervals through the well. One core was taken over the interval 896 m - 907 m in sandstones of the Nordland Group "A" Formation. The second core was cut in the Eocene sand from 1347.5 m to 1375 m. The third core was cut from 1451.5 m to 1472 m in the lowermost sandstone of the Sotbakken Group B2 Member. Sidewall cores were taken all through the well from 567 m in the Nordland Group down to 4025 m in the Nygrunnen Group. A total of 10 successful RFT pressure measurements were taken in one run over the interval 1340 m - 1377 m. An RFT sample was collected at 1350 m and recovered 0.8 litres of mud filtrate and 31.0 SFC of dry gas. CST run 1A and 1B (sidewall cores) were run in the first hole. Otherwise all cores and RFT's were taken in the second hole.

The well was plugged and abandoned completed 6th October 1992 as a gas discovery.

Testing

The interval 1338.5 - 1350 m was tested and produced gas at a rate of 563,000 Sm³/D, with 25.4mm choke size.



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
615.00	4027.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	896.0	906.6	[m]
2	1347.5	1374.0	[m]
3	1460.6	1472.0	[m]

Total kjerneprøve lengde [m]	48.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



896-900m



900-904m



904-906m



1347-1351m



1351-1355m



1355-1359m



1359-1363m



1363-1367m



1367-1371m



1371-1374m



1460-1464m



1464-1468m



1468-1472m



Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
567.0	[m]	SWC	OD
571.0	[m]	SWC	OD
580.0	[m]	SWC	OD
590.0	[m]	SWC	OD
599.0	[m]	SWC	OD
610.0	[m]	SWC	OD
630.0	[m]	SWC	OD
640.0	[m]	SWC	OD
656.0	[m]	SWC	OD
670.0	[m]	SWC	OD
676.0	[m]	SWC	OD
686.0	[m]	SWC	OD
695.0	[m]	SWC	OD
705.0	[m]	SWC	OD
714.0	[m]	SWC	OD
731.0	[m]	SWC	OD
739.0	[m]	SWC	OD
754.0	[m]	SWC	OD
769.0	[m]	SWC	OD
782.0	[m]	SWC	OD
786.0	[m]	SWC	OD
790.0	[m]	SWC	HYDRO
796.0	[m]	SWC	OD
802.0	[m]	SWC	HYDRO
805.0	[m]	SWC	OD
814.0	[m]	SWC	OD
822.0	[m]	SWC	HYDRO
823.0	[m]	SWC	OD
832.0	[m]	SWC	OD
843.0	[m]	SWC	OD
885.0	[m]	SWC	OD
885.0	[m]	SWC	HYDRO
887.0	[m]	DC	OD
890.0	[m]	SWC	HYDRO
890.0	[m]	DC	HYDRO
892.0	[m]	DC	HYDRO
895.0	[m]	DC	OD
896.0	[m]	C	OD



Faktasider

Brønnbane / Leting

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897.4 [m]	C	OD
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899.0 [m]	C	HYDRO
901.4 [m]	C	OD
905.2 [m]	C	OD
906.6 [m]	C	STRAT
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914.0 [m]	SWC	HYDRO
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920.0 [m]	SWC	OD
920.0 [m]	SWC	HYDRO
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930.0 [m]	DC	HYDRO
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Faktasider

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Faktasider

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2980.0	[m]	DC	OD



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3000.0	[m]	DC	HYDRO
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3040.0	[m]	DC	STRAT
3050.0	[m]	DC	STRAT
3053.0	[m]	SWC	HYDRO
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3190.0	[m]	DC	STRAT
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3200.0	[m]	DC	HYDRO
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3215.0	[m]	SWC	HYDRO
3220.0	[m]	DC	OD
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3230.0	[m]	DC	STRAT
3240.0	[m]	DC	OD
3240.0	[m]	DC	STRAT



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3446.0	[m]	SWC	HYDRO
3460.0	[m]	DC	OD
3460.0	[m]	DC	STRAT
3460.0	[m]	DC	HYDRO
3470.0	[m]	DC	STRAT
3471.0	[m]	SWC	HYDRO
3480.0	[m]	DC	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 14:08

3487.0	[m]	DC	HYDRO
3500.0	[m]	DC	OD
3500.0	[m]	DC	STRAT
3510.0	[m]	DC	STRAT
3510.0	[m]	DC	HYDRO
3520.0	[m]	DC	OD
3520.0	[m]	DC	STRAT
3530.0	[m]	DC	STRAT
3540.0	[m]	DC	OD
3540.0	[m]	DC	STRAT
3540.0	[m]	DC	HYDRO
3545.0	[m]	SWC	HYDRO
3558.0	[m]	SWC	HYDRO
3560.0	[m]	DC	OD
3560.0	[m]	DC	STRAT
3580.0	[m]	DC	OD
3590.0	[m]	DC	STRAT
3600.0	[m]	DC	OD
3600.0	[m]	DC	STRAT
3600.0	[m]	DC	HYDRO
3605.0	[m]	DC	HYDRO
3620.0	[m]	DC	OD
3620.0	[m]	DC	STRAT
3620.0	[m]	DC	HYDRO
3640.0	[m]	DC	OD
3640.0	[m]	DC	STRAT
3640.0	[m]	DC	HYDRO
3660.0	[m]	DC	OD
3660.0	[m]	DC	STRAT
3660.0	[m]	DC	HYDRO
3680.0	[m]	DC	OD
3680.0	[m]	DC	STRAT
3680.0	[m]	DC	HYDRO
3700.0	[m]	DC	OD
3700.0	[m]	DC	STRAT
3700.0	[m]	DC	HYDRO
3710.0	[m]	SWC	HYDRO
3720.0	[m]	DC	OD
3720.0	[m]	DC	STRAT
3720.0	[m]	DC	HYDRO



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 14:08

3725.0	[m]	DC	HYDRO
3735.0	[m]	DC	HYDRO
3740.0	[m]	DC	OD
3740.0	[m]	DC	STRAT
3740.0	[m]	DC	HYDRO
3742.0	[m]	SWC	HYDRO
3755.0	[m]	DC	HYDRO
3760.0	[m]	DC	OD
3760.0	[m]	DC	STRAT
3760.0	[m]	DC	HYDRO
3770.0	[m]	DC	STRAT
3770.0	[m]	DC	HYDRO
3780.0	[m]	DC	OD
3780.0	[m]	DC	STRAT
3780.0	[m]	SWC	HYDRO
3780.0	[m]	DC	HYDRO
3790.0	[m]	DC	STRAT
3790.0	[m]	SWC	HYDRO
3790.0	[m]	DC	HYDRO
3800.0	[m]	DC	OD
3800.0	[m]	DC	STRAT
3800.0	[m]	DC	HYDRO
3810.0	[m]	DC	STRAT
3810.0	[m]	DC	HYDRO
3820.0	[m]	DC	OD
3820.0	[m]	DC	STRAT
3830.0	[m]	DC	STRAT
3840.0	[m]	DC	OD
3840.0	[m]	DC	STRAT
3850.0	[m]	DC	STRAT
3860.0	[m]	DC	OD
3860.0	[m]	DC	STRAT
3873.0	[m]	DC	HYDRO
3880.0	[m]	DC	OD
3880.0	[m]	DC	STRAT
3880.0	[m]	SWC	HYDRO
3880.0	[m]	DC	HYDRO
3890.0	[m]	DC	STRAT
3890.0	[m]	DC	HYDRO
3900.0	[m]	DC	OD



3900.0	[m]	DC	STRAT
3900.0	[m]	DC	HYDRO
3920.0	[m]	DC	OD
3940.0	[m]	DC	OD
3960.0	[m]	DC	OD
3980.0	[m]	DC	OD
3980.0	[m]	DC	STRAT
3980.0	[m]	DC	HYDRO
3990.0	[m]	DC	STRAT
3990.0	[m]	DC	HYDRO
4000.0	[m]	DC	OD
4000.0	[m]	DC	STRAT
4000.0	[m]	DC	HYDRO
4010.0	[m]	DC	STRAT
4010.0	[m]	DC	HYDRO
4020.0	[m]	DC	OD
4025.0	[m]	SWC	HYDRO
4027.0	[m]	DC	OD
4027.0	[m]	DC	HYDRO
4027.0	[m]	DC	HYDRO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
473	NORDLAND GP
945	SOTBAKKEN GP
945	TORSK FM
3752	NYGRUNNEN GP
3752	KVEITE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1987	pdf	0.69

Geokjemisk informasjon





Dokument navn	Dokument format	Dokument størrelse [KB]
1987_1	pdf	2.49
1987_2	pdf	3.28

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1987_01 WDSS General Information	pdf	0.59
1987_02 WDSS completion log	pdf	0.21

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1987_7316_5_1 COMPLETION REPORT AND LOG	pdf	20.96

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1338	1350	25.4

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

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0		563000	0.600		

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	830	1500





CST GR	467	843
CST GR	562	842
CST GR	885	2900
CST GR	948	2908
CST GR	2974	3290
CST GR	2974	3448
CST GR	3453	4025
DIL LSS GR	876	2933
DIL LSS LDL CNL GR SP AMS	562	638
DIL LSS LDL CNL GR SP AMS	569	873
DLL MSFL LDL CNL NGL AMS	876	1769
DLL MSFL LSS LDL CNL GR SP	2957	4029
FMS4 GR	876	2922
FMS4 GR	2957	4029
LDL CNL NGS	1725	2915
MWD - DPR GR DIR	561	613
MWD - GR RES DIR	473	4027
RFT HP GR	1340	1377
VSP	520	2960
VSP	1900	4020

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	559.0	36	560.0	0.00	LOT
INTERM.	18 3/8	569.0	24	569.0	0.00	LOT
LINER	16	877.0	24	878.0	1.66	LOT
INTERM.	9 5/8	2956.0	12 1/4	2973.0	1.60	LOT
OPEN HOLE		4027.0	8 1/2	4027.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
476	1.08	8.0		WATER BASED	
506	1.24	13.0		WATER BASED	
517	1.20	10.0		WATER BASED	
555	1.24			WATER BASED	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 14:08

560	1.08	15.5		WATER BASED	
561	1.20	14.0		WATER BASED	
569	1.06	13.0		WATER BASED	
574	1.39	14.0		WATER BASED	
610	1.40	14.0		WATER BASED	
613	1.40	16.0		WATER BASED	
636	1.08	11.0		WATER BASED	
722	1.40	14.0		WATER BASED	
811	1.40	14.0		WATER BASED	
875	1.07	5.0		WATER BASED	
903	1.30	11.0		WATER BASED	
906	1.50	14.0		WATER BASED	
907	1.22	22.0		WATER BASED	
921	1.22	22.0		WATER BASED	
1025	1.22	21.0		WATER BASED	
1174	1.22	22.0		WATER BASED	
1231	1.24	13.0		WATER BASED	
1310	1.24	13.0		WATER BASED	
1347	1.22	22.0		WATER BASED	
1370	1.24	12.0		WATER BASED	
2207	1.22	19.0		WATER BASED	
2753	1.22	17.0		WATER BASED	
2988	1.25	18.0		WATER BASED	
3063	1.25	12.0		WATER BASED	
3178	1.25	12.0		WATER BASED	
3242	1.25	14.0		WATER BASED	
3381	1.25	14.0		WATER BASED	
3406	1.25	14.0		WATER BASED	
3478	1.25	14.0		WATER BASED	
3548	1.25	17.0		WATER BASED	
3651	1.25	14.0		WATER BASED	
3729	1.25	15.0		WATER BASED	
3784	1.25	14.0		WATER BASED	
3969	1.25	14.0		WATER BASED	
4006	1.25	14.0		WATER BASED	
4027	1.25	15.0		WATER BASED	

Tynnslip i Sokkeldirektoratet



Dybde	Enhet
899.85	[m]
903.40	[m]
905.90	[m]
1350.35	[m]
1365.55	[m]
1368.70	[m]
1461.35	[m]
1464.63	[m]
1465.63	[m]
1469.90	[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]
1987 Formation pressure (Formasjonstrykk)	pdf	0.27

