



Generell informasjon

Brønnbane navn	17/3-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	17/3-1
Brønn navn	17/3-1
Seismisk lokalisering	EL 9401-222- SP 382 & GES 89-14 SP 508
Utvinningstillatelse	188
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	815-L
Boreinnretning	VILDKAT EXPLORER
Boredager	53
Borestart	29.06.1995
Boreslutt	20.08.1995
Frigitt dato	20.08.1997
Publiseringsdato	24.09.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	SANDNES FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	273.0
Totalt målt dybde (MD) [m RKB]	2852.0
Totalt vertikalt dybde (TVD) [m RKB]	2852.0
Maks inklinasjon [°]	3.19
Temperatur ved bunn av brønnbanen [°C]	98
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 55' 2.5" N
ØV grader	3° 48' 21.33" E



NS UTM [m]	6531280.15
ØV UTM [m]	546414.75
UTM sone	31
NPDID for brønnbanen	2576

Brønnhistorie

General

Block 17/3 is situated approximately in the center of a broad, elongated Triassic rift basin composed of the Stord and Egersund basins. The well is located on a well-defined horst structure (Bark Prospect) in the northern part of the block, in an almost unexplored area in the southern part of the Stord Basin. Due to the "wildcat" nature of the well there were many unknowns and "worst case scenarios" had to be planned for. The well was designed for two objectives with different pressure regimes: The primary objective was the Late Jurassic Sandnes Formation at 1.20 sg. The Permian Rotliegendes Group at 1.55 sg was a secondary objective. This necessitated an expensive deep 13 3/8" casing (2312 m) to ensure that the 2 objectives could be properly evaluated and that the well could be completed in the 8 1/2" section. The expected hydrocarbon phase was oil. The prognosed TD of the well was 3300 m RKB, 309 m below the supposed Top Rotliegendes. This was in order to reach the highly dipping markers of assumed Paleoz

Operations and results

Wildcat well 17/3-1 was spudded with the semi-submersible installation "Wildcat Explorer" on 29 June 1995 and drilled to a total depth of 2852.15 m in metamorphic basement rock, dated 410 My. The well was drilled with seawater down to 949 m and with water based gypsum mud from 949 m to TD. The well came in under budget and almost 14 days ahead of schedule. A major contributing factor to the latter was the shallower than expected TD, 2852 m (basement) as opposed to 3300 m, due to the Permian section being non-existent. The primary objective Sandnes Formation was encountered at 2387 - 2409 m, about 50 m shallower than prognosed, with a hydrostatic pore pressure (1.05 sg emw from RFT and MDT) and only ~2 m of gas was found at the top of the reservoir. The Permian series were not present, as the Triassic Smith Bank Formation was directly deposited on metamorphic basement. The secondary objective, the Rotliegendes Group, was never encountered due to the missing Permian series. The well was permanently plugged and abandoned on 22 August 1995 as a gas discovery.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
955.00	2845.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2388.0	2390.0	[m]
2	2391.0	2400.2	[m]
3	2400.2	2417.9	[m]
4	2849.0	2852.2	[m]

Total kjerneprøve lengde [m]	32.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2388-2390m



2391-2396m



2396-2400m



2400-2405m



2405-2410m



2410-2415m



2415-2418m



2849-2852m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
298	NORDLAND GP
396	HORDALAND GP
873	ROGALAND GP
873	BALDER FM
942	SELE FM
966	LISTA FM
1001	VÅLE FM
1030	SHETLAND GP
1030	TOR FM



1271	HOD FM
1380	CROMER KNOLL GP
1380	RØDBY FM
1425	SOLA FM
1505	ÅSGARD FM
1875	BOKNEFJORD GP
1875	FLEKKEFJORD FM
1980	SAUDA FM
2311	TAU FM
2339	EGERSUND FM
2388	VESTLAND GP
2388	SANDNES FM
2410	BRYNE FM
2440	NO GROUP DEFINED
2440	SMITH BANK FM
2811	BASEMENT

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2576	pdf	0.40

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2576_1	pdf	1.22
2576_2	pdf	1.97
2576_3	pdf	1.04

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2576_17_3_1_COMPLETION_REPORT_AND_LOG	pdf	44.94





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AMS FMS GR	2315	2849
CST GR	2324	2840
DIL AMS MSF BHC GR	2315	2846
LDL AMS BHC GR	942	2310
LDL CNL AMS NGT GR	2315	2849
MDT GR	2388	2438
MGR MEM DIR	298	2849
RFT GR	2389	2438
VSP	730	2840

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
SURF.COND.	30	443.0	36	445.0	0.00	LOT
CONDUCTOR	20	943.0	26	949.0	0.00	LOT
INTERM.	13 3/8	2312.0	17 1/2	2319.0	0.00	LOT
OPEN HOLE		2852.0	12 1/4	2852.0	1.35	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
330	1.03			WATER BASED	
443	1.03			WATER BASED	
445	1.03			WATER BASED	
492	1.37			WATER BASED	
500	1.37			WATER BASED	
627	1.37			WATER BASED	
847	1.03			WATER BASED	
943	1.26	19.0		WATER BASED	
949	1.03			WATER BASED	
1133	1.35	22.0		WATER BASED	
1247	1.35	23.0		WATER BASED	
1315	1.35	27.0		WATER BASED	
1538	1.35	27.0		WATER BASED	



1695	1.35	26.0		WATER BASED	
1732	1.35	24.0		WATER BASED	
1836	1.35	25.0		WATER BASED	
1942	1.35	27.0		WATER BASED	
1976	1.35	27.0		WATER BASED	
2009	1.35	24.0		WATER BASED	
2111	1.35	26.0		WATER BASED	
2161	1.35	27.0		WATER BASED	
2233	1.35	26.0		WATER BASED	
2312	1.35	25.0		WATER BASED	
2318	1.35	26.0		WATER BASED	
2319	1.35	28.0		WATER BASED	
2390	1.35	24.0		WATER BASED	
2400	1.35	21.0		WATER BASED	
2427	1.35	23.0		WATER BASED	
2483	1.35	32.0		WATER BASED	
2494	1.35	28.0		WATER BASED	
2591	1.35	24.0		WATER BASED	
2633	1.35	25.0		WATER BASED	
2691	1.35	25.0		WATER BASED	
2744	1.35	23.0		WATER BASED	
2840	1.35	28.0		WATER BASED	
2846	1.35	27.0		WATER BASED	
2849	1.35	24.0		WATER BASED	
2850	1.35	23.0		WATER BASED	
2852	1.35	23.0		WATER BASED	

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]
2576 Formation pressure (Formasjonstrykk)	pdf	0.22

