



Generell informasjon

Brønnbane navn	2/7-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	EDDA
Funn	2/7-4 Edda
Brønn navn	2/7-4
Seismisk lokalisering	Line PS 5628 & SP 82
Utvinningstillatelse	018
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	71-L
Boreinnretning	OCEAN VIKING
Boredager	73
Borestart	23.06.1972
Boreslutt	03.09.1972
Frigitt dato	03.09.1974
Publiseringsdato	18.01.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	EKOFISK FM
2. nivå med hydrokarboner, alder	LATE CRETACEOUS
2. nivå med hydrokarboner, formasjon	TOR FM
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	72.0
Totalt målt dybde (MD) [m RKB]	3356.0
Maks inklinasjon [°]	1.6
Temperatur ved bunn av brønnbanen [°C]	110
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	TOR FM
Geodetisk datum	ED50



NS grader	56° 27' 52.03" N
ØV grader	3° 6' 12" E
NS UTM [m]	6257917.77
ØV UTM [m]	506367.48
UTM sone	31
NPDID for brønnbanen	263

Brønnhistorie

General

Well 2/7-4 is located in the southern part of the Norwegian North Sea and ca 10 km south east of the Ekofisk Field. The primary objective was the Danian Chalk, expected to be 90 m thick and possibly completely hydrocarbon bearing.

Secondary objective was Late Cretaceous carbonates, especially in the upper part, which could be oil bearing in communication with the Danian. Planned TD was at 3353 m in the Late Cretaceous. In the event that hydrocarbon shows were still evident at the proposed TD the well would be deepened until potential productive zones were completely penetrated.

Operations and results

Wildcat well 2/7-4 was spudded with the semi-submersible installation Ocean Viking on 23 June 1972 and drilled to TD at 3356 m in the Late Cretaceous Tor Formation. The well was drilled without significant problems.

The "Danian Chalk" (Ekofisk Formation) was encountered at 3096 m, and the Late Cretaceous Tor Formation at 3186 m. Both formations were oil bearing. DST's and logs indicate oil down to 3225 m, while the deepest test at 3291 - 3266 m produced water, some gas, and trace oil. Oil shows were recorded on cores in the interval 3133 m to 3246 m.

Twelve cores were cut from 3116 m to 3264 in the Ekofisk and Tor Formations. No wire line fluid samples taken.

The well was permanently abandoned on 3 September 1972 on as an oil discovery.

Testing

Six DST's were conducted in the Ekofisk and Tor Formations. Maximum production data after acid treatment follows: DST 1 tested the interval 3292 - 3266 m in the Tor Formation and produced 67 m³/day water, 2800 Sm³/day gas, and trace oil. DST 2 tested the interval 3197 - 3234 m in the Tor Formation and produced 1054 Sm³ oil and 273600 Sm³ gas /day on a 44/64" choke. The GOR was 260 Sm³/Sm³ and the oil gravity was 37.7 deg API. DST 3 tested the interval 3149 - 3170 m in the Ekofisk Formation and produced 200 Sm³ oil and 71200 Sm³ gas /day on a 36/64" choke. The GOR was 357 Sm³/Sm³ and the oil gravity was 44.5 deg API. DST 4 from the interval 3127 m to 3145 m in the Ekofisk Formation produced only water cushion: no formation fluid came to surface. DST 5 and DST 6 tested the interval 3106 m to 3114 m in the Upper Ekofisk Formation and produced small quantities of oil and gas to the surface from a nearly tight formation.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
487.68	3352.80

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	10224.0	10258.0	[ft]
2	10258.0	10302.0	[ft]
3	10302.0	10344.0	[ft]
4	10359.0	10379.0	[ft]
5	10380.0	10396.0	[ft]
6	10405.0	10448.0	[ft]
7	10448.0	10474.0	[ft]
8	10477.0	10517.0	[ft]
9	10517.0	10535.0	[ft]
10	10563.0	10580.0	[ft]
11	10605.0	10651.0	[ft]
12	10651.0	10679.0	[ft]

Total kjerneprøve lengde [m]	114.0
Kjerne tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3174.5	[m]	C	OD
3185.0	[m]	C	OD
3185.6	[m]	C	OD
3188.2	[m]	C	OD
3190.3	[m]	C	OD
3210.2	[m]	C	OD

Oljeprøver i Sokkeldirektoratet



Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		0.00	0.00			YES
DST		0.00	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
99	NORDLAND GP
1749	HORDALAND GP
2945	ROGALAND GP
2945	BALDER FM
2961	SELE FM
3008	LISTA FM
3077	VÅLE FM
3096	SHETLAND GP
3096	EKOFISK FM
3186	TOR FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
263	pdf	0.28

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
263 01 WDSS General Information	pdf	0.25

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
263_01_2_7_4_Completion_Report_and_Completion_log	pdf	18.33

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	3266	3292	0.0
2.0	3197	3220	0.0
3.0	3149	3170	0.0
4.0	3127	3145	0.0
5.0	3106	3114	0.0
6.0	3106	3114	0.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				
3.0				
4.0				
5.0				
6.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0					
2.0	1054	27183			
3.0	200	7079			
4.0					
5.0	7	736			
6.0	8	1444			

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC	488	3351
CBL	1033	2429
CBL	2347	3242
CBL	2371	3326
CDM	2429	3355
CDM AP PP	1208	2438
DL	3048	3352
FDC	3061	3355
GR	107	3351
GR NL	3018	3328
IES	488	3356
PML C	3049	3356
VELOCITY	488	3352

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	177.0	36	187.0	0.00	LOT
INTERM.	20	610.0	26	622.0	1.86	LOT
INTERM.	13 3/8	2093.0	17 1/2	2110.0	1.88	LOT
INTERM.	9 5/8	3383.0	12 1/4	3390.0	0.00	LOT
LINER	7	3710.0	8 1/2	3723.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
132	1.07			seawater	
487	1.31			waterbased	
1219	1.49	45.0		waterbased	
2438	1.71	47.0		waterbased	
3353	1.71	48.0		waterbased	