



Generell informasjon

Brønnbane navn	3/7-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	3/7-3
Seismisk lokalisering	LINE ANO 7380 SP: 269.
Utvinningstillatelse	023
Boreoperatør	Elf Norge A/S
Boretillatelse	293-L
Boreinnretning	DYVI ALPHA
Boredager	72
Borestart	21.06.1981
Boreslutt	31.08.1981
Frigitt dato	31.08.1983
Publiseringsdato	09.03.2009
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	67.0
Totalt målt dybde (MD) [m RKB]	3540.0
Maks inklinasjon [°]	3.5
Temperatur ved bunn av brønnbanen [°C]	93
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	56° 24' 54.77" N
ØV grader	4° 10' 54.33" E
NS UTM [m]	6253058.67
ØV UTM [m]	572913.12
UTM sone	31
NPDID for brønnbanen	293



Brønnhistorie

General

Well 3/7-3 was drilled on a salt diapir in the southern part of the Søgne Basin in the North Sea. The primary target of the well was Danian/Late Cretaceous chalk, which had been found hydrocarbon bearing in the Ekofisk area and in the Danish well Lulu 1. Secondary target was Middle Jurassic sandstones, which had been found hydrocarbon bearing in well 2/6-2. The TD was planned below the top of the Zechstein salt in order to test possible Early Jurassic and/or Triassic sandstones.

Operations and results

Wildcat well 3/7-3 was spudded with the semi-submersible installation Dyvi Alpha on 21 June 1981 and drilled to TD at 3540 m in the Late Permian Zechstein salt. At 1968 m, in the Late Eocene, a drilling break was experienced and the well started to flow. The flow was killed with a mud weight of 1.55 g/cc. After setting the 13 3/8" casing shoe at 1961 m, the well was controlled after gains and losses with a mud weight of 1.58 g/cc. No other problems were encountered while drilling. The well was drilled with seawater and bentonite down 666 m, with seawater/SST 202/FCL mud from 666 m to 1970 m, and with seawater/FCL/LC mud from 1970 m to TD.

Tertiary sands with a thickness of 37.5 m were encountered in the Paleocene. They were water bearing. The chalk, which was the main target, was relatively tight and water bearing. At 3325 m a 107 meter thick water bearing sandstone of Latest Jurassic - Earliest Cretaceous age (Kimmeridgian - Berriasian) was encountered. Below this sandstone Kimmeridgian shales rested directly on the Zechstein anhydrite. No shows were noted in the well.

Three cores were cut; one from 2830 to 2848 m in the Danian chalk (60% recovery) and two in the Berriasian Sandstones from 3337.5 to 3339 m (67% recovery) and from 3339 to 3348 m (100% recovery). No wire line fluid samples were taken.

The well was permanently abandoned on 31 August 1981 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
180.00	3522.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2830.0	2839.6	[m]
2	3337.5	3338.5	[m]
3	3339.0	3348.0	[m]

Total kjerneprøve lengde [m]	19.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2830-2835m



2835-2839m



3337-3338m



3339-3344m



3344-3348m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1500.0	[m]	DC	RRI
1500.0	[m]	DC	AMOCO
1530.0	[m]	DC	RRI
1530.0	[m]	DC	AMOCO
1560.0	[m]	DC	RRI
1560.0	[m]	DC	AMOCO
1590.0	[m]	DC	RRI
1590.0	[m]	DC	AMOCO
1620.0	[m]	DC	RRI
1620.0	[m]	DC	AMOCO
1650.0	[m]	DC	RRI
1650.0	[m]	DC	AMOCO
1670.0	[m]	DC	RRI
1670.0	[m]	DC	AMOCO
1710.0	[m]	DC	RRI
1710.0	[m]	DC	AMOCO
1740.0	[m]	DC	RRI



1740.0 [m]	DC	AMOCO
1770.0 [m]	DC	RRI
1770.0 [m]	DC	AMOCO
1800.0 [m]	DC	RRI
1800.0 [m]	DC	AMOCO
1820.0 [m]	DC	RRI
1820.0 [m]	DC	AMOCO
1860.0 [m]	DC	RRI
1860.0 [m]	DC	AMOCO
1890.0 [m]	DC	RRI
1890.0 [m]	DC	AMOCO
1920.0 [m]	DC	RRI
1920.0 [m]	DC	AMOCO
1950.0 [m]	DC	RRI
1950.0 [m]	DC	AMOCO
1980.0 [m]	DC	RRI
1980.0 [m]	DC	AMOCO
2010.0 [m]	DC	RRI
2010.0 [m]	DC	AMOCO
2040.0 [m]	DC	RRI
2040.0 [m]	DC	AMOCO
2070.0 [m]	DC	RRI
2070.0 [m]	DC	AMOCO
2100.0 [m]	DC	RRI
2100.0 [m]	DC	AMOCO
2140.0 [m]	DC	RRI
2140.0 [m]	DC	AMOCO
2160.0 [m]	DC	RRI
2160.0 [m]	DC	AMOCO
2190.0 [m]	DC	RRI
2190.0 [m]	DC	AMOCO
2220.0 [m]	DC	RRI
2220.0 [m]	DC	AMOCO
2240.0 [m]	DC	RRI
2240.0 [m]	DC	AMOCO
2280.0 [m]	DC	RRI
2280.0 [m]	DC	AMOCO
2310.0 [m]	DC	RRI
2310.0 [m]	DC	AMOCO
2340.0 [m]	DC	RRI



2340.0 [m]	DC	AMOCO
2370.0 [m]	DC	RRI
2370.0 [m]	DC	AMOCO
2400.0 [m]	DC	RRI
2400.0 [m]	DC	AMOCO
2430.0 [m]	DC	RRI
2430.0 [m]	DC	AMOCO
2460.0 [m]	DC	RRI
2460.0 [m]	DC	AMOCO
2490.0 [m]	DC	RRI
2490.0 [m]	DC	AMOCO
2520.0 [m]	DC	RRI
2520.0 [m]	DC	AMOCO
2550.0 [m]	DC	RRI
2550.0 [m]	DC	AMOCO
2580.0 [m]	DC	RRI
2580.0 [m]	DC	AMOCO
2610.0 [m]	DC	RRI
2610.0 [m]	DC	AMOCO
2640.0 [m]	DC	RRI
2640.0 [m]	DC	AMOCO
2670.0 [m]	DC	RRI
2670.0 [m]	DC	AMOCO
2690.0 [m]	DC	RRI
2690.0 [m]	DC	AMOCO
2700.0 [m]	DC	RRI
2710.0 [m]	DC	RRI
2710.0 [m]	DC	AMOCO
2720.0 [m]	DC	RRI
2730.0 [m]	DC	RRI
2730.0 [m]	DC	AMOCO
2740.0 [m]	DC	RRI
2740.0 [m]	DC	AMOCO
2745.0 [m]	DC	AMOCO
2750.0 [m]	DC	RRI
2750.0 [m]	DC	AMOCO
2752.0 [m]	DC	RRI
2754.0 [m]	DC	AMOCO
2760.0 [m]	DC	RRI
2760.0 [m]	DC	AMOCO



2766.0 [m]	DC	RRI
2768.0 [m]	DC	AMOCO
2770.0 [m]	DC	RRI
2776.0 [m]	DC	RRI
2776.0 [m]	DC	AMOCO
2780.0 [m]	DC	RRI
2784.0 [m]	DC	RRI
2784.0 [m]	DC	AMOCO
2792.0 [m]	DC	RRI
2792.0 [m]	DC	AMOCO
2796.0 [m]	DC	RRI
2800.0 [m]	DC	RRI
2800.0 [m]	DC	AMOCO
2808.0 [m]	DC	RRI
2808.0 [m]	DC	AMOCO
2810.0 [m]	DC	RRI
2816.0 [m]	DC	RRI
2816.0 [m]	DC	AMOCO
2820.0 [m]	DC	RRI
2820.0 [m]	DC	AMOCO
2824.0 [m]	DC	RRI
2824.0 [m]	DC	AMOCO
2830.0 [m]	DC	RRI
2830.0 [m]	DC	AMOCO
2850.0 [m]	DC	RRI
2850.0 [m]	DC	AMOCO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
92	NORDLAND GP
1455	HORDALAND GP
2697	ROGALAND GP
2697	BALDER FM
2726	SELE FM
2761	LISTA FM
2775	MAUREEN FM
2812	SHETLAND GP
2812	EKOFISK FM



2907	TOR FM
3119	HOD FM
3280	CROMER KNOLL GP
3280	ÅSGARD FM
3325	RAN SANDSTONE UNITS
3432	TYNE GP
3432	MANDAL FM
3506	ZECHSTEIN GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
293_1	pdf	0.24
293_2	pdf	9.17

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
293_01_WDSS_General_Information	pdf	0.10
293_02_WDSS_completion_log	pdf	0.23

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
293_01_3_7_3_GEOLOGICAL_COMPLETION_REPORT	PDF	25.90
293_02_3_7_3_Completion_log	pdf	1.91
293_03_3_7_3_Completion_Report	pdf	25.90
293_03_3_7_3_CORE_DESCRIPTION	PDF	0.01
293_03_3_7_3_CORE_PHOTOS_1-3	PDF	0.69
293_03_3_7_3_DRILLING_PROGRAM	pdf	3.22
293_03_3_7_3_DRILLING_REPORT	pdf	4.28
293_03_3_7_3_LITHOSTRATIGRAPHY_AND_RESERVOIR_ASPECT_OF_THE_PRE-CHALK_SEDIMENTS	pdf	0.48
293_03_3_7_3_PRELIMINARY_REPORT_CORE_1	PDF	0.09





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	500	1935
CBL VDL	1700	3242
HDT	1971	3253
HDT	3240	3505
ISF SONIC GR	153	2906
ISF SONIC NGT	3244	3542
LDL CNL GR	1961	3542
LDL GR	153	666
TEMP	100	1500
TEMP	378	1800
VELOCITY	2500	3520

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	153.0	36	153.5	0.00	LOT
SURF.COND.	20	653.0	26	666.0	1.65	LOT
INTERM.	13 3/8	1961.0	17 1/2	1970.0	1.81	LOT
INTERM.	9 5/8	3241.0	12 1/4	3253.0	2.04	LOT
OPEN HOLE		3540.0	8 1/2	3542.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
742	1.13			waterbased	
1027	1.19			waterbased	
2019	1.59			waterbased	
2814	1.63			waterbased	
3241	1.63			waterbased	
3540	1.64			waterbased	

Tynnslip i Sokkeldirektoratet



Dybde	Enhet
3338.00	[m]
3344.00	[m]
3346.00	[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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
293 Formation pressure (Formasjonstrykk)	pdf	0.21

