



## **Generell informasjon**





## Faktasider

### Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 03:07

Brønnbane navn	3/7-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	NORTH SEA
Brønn navn	3/7-2
Seismisk lokalisering	X ANO 7832 SP: 1343 +line ANO738&SP502
Utvinningstillatelse	<a href="#">023</a>
Boreoperatør	Elf Norge A/S
Boretillatelse	273-L
Boreinnretning	<a href="#">DYVI ALPHA</a>
Boredager	83
Borestart	30.03.1981
Boeslutt	20.06.1981
Frigitt dato	20.06.1983
Publiseringsdato	15.02.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	52.0
Totalt målt dybde (MD) [m RKB]	4330.0
Totalt vertikalt dybde (TVD) [m RKB]	4330.0
Maks inklinasjon [°]	9.5
Temperatur ved bunn av brønnbanen [°C]	126
Eldste penetrerte alder	EARLY PERMIAN
Eldste penetrerte formasjon	ROTLIEGEND GP
Geodetisk datum	ED50
NS grader	56° 29' 58.37" N
ØV grader	4° 4' 8.36" E
NS UTM [m]	6262331.32
ØV UTM [m]	565809.72
UTM sone	31
NPDID for brønnbanen	220



## Brønnhistorie

### General

Well 3/7-2 was drilled on a structure located across blocks 3/4 (Amoco Group) and 3/7 (Petronord Group). The primary targets were: Tertiary sands found gas bearing in well 2/3-1; Danian/Late Cretaceous limestone (chalk) hydrocarbon bearing in the Ekofisk area and in the Danish well Lulu 1; Middle Jurassic sandstones which were hydrocarbon bearing in well 2/6-2; and Rotliegendes sandstones. The TD was planned into the Carboniferous in order to establish the source potential of this formation.

### Operations and results

Wildcat well 3/7-2 was spudded with the semi-submersible installation Dyvi Alpha on 30 March and drilled to TD at 4330 m in the Early Permian Rotliegendes Group. A drilling break occurred at 2534 m. Flow check at 2553 m showed a weak flow, which was controlled by raising the mud weight to 1.46 sg. Drilling resumed and was stopped at 2563 m for logging. Three days were necessary to run the electric logs because of continuous slight flow. Deviation problems were experienced in the salt. The deviation reached a maximum of 9 1/2 deg at 3659 m then was reduced to 2 1/2 deg at 4004 m. The well was drilled with a lignosulphonate mud from 2563 m to 3027 m. Below the 9 5/8" casing shoe at 3012 m the mud was displaced to a salt saturated mud.

The Eocene/Oligocene sands were found missing. Only 8 meters of sand were encountered in the Paleocene. The chalk was tight and water bearing. The Jurassic sandstones were not as developed as prognosed, and they were water bearing. No sandstones were encountered in the Rotliegendes Group, which consisted of an upper shale and a lower volcanic unit. Carboniferous sediments were not penetrated. All the targets above the salt were found water bearing while no reservoir was encountered below 4166 m (base salt, F horizon). Prognosed stratigraphy at base Cretaceous and below was in error. Base Cretaceous was encountered 115 m higher than prognosed, top salt was 209 m higher than prognosed, while base salt (F Horizon) was 150 m deeper than prognosed. The interval velocities were confirmed by the velocity surveys, so the wrong picking was due to a weak base Cretaceous reflector, Jurassic sandstones being too thin to provide good reflectors, and the reflector taken for top salt in fact was an intra-salt reflector corresponding to a thick layer of Potassium salt. Rare and weak fluorescences and cuts in the upper Jurassic Shale were the only shows recorded in the well.

Five cores were cut, three in the Danian/Late Cretaceous Limestone, one in the Middle Jurassic and one at TD in the Rotliegendes basalt. RFT sampling was performed in the Jurassic at 2909 m. The sample was opened and found to contain 9 l salted water (NaCl 115 g/l), slightly contaminated by the lignosulphonate mud. (The mud salinity was 47 g NaCl /l).

The well was permanently abandoned on 20 June 1981 as a dry well.

### Testing

No drill stem test was performed in the well.

## Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
155.00	4320.00

Borekaks tilgjengelig for prøvetaking?	YES
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### Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2570.0	2572.0	[m ]
2	2575.5	2588.8	[m ]
3	2602.0	2604.8	[m ]
4	2911.0	2919.0	[m ]
5	4310.0	4319.0	[m ]

Total kjerneprøve lengde [m]	35.1
Kjerner tilgjengelig for prøvetaking?	YES

### Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1960.0	[m]	DC	RRI
2010.0	[m]	DC	RRI
2040.0	[m]	DC	RRI
2060.0	[m]	DC	RRI
2090.0	[m]	DC	RRI
2110.0	[m]	DC	RRI
2140.0	[m]	DC	RRI
2160.0	[m]	DC	RRI
2180.0	[m]	DC	RRI
2200.0	[m]	DC	RRI
2220.0	[m]	DC	RRI
2240.0	[m]	DC	RRI
2260.0	[m]	DC	RRI
2280.0	[m]	DC	RRI
2300.0	[m]	DC	RRI
2320.0	[m]	DC	RRI
2340.0	[m]	DC	RRI
2353.0	[m]	DC	RRI



2370.0 [m]	DC	RRI
2395.0 [m]	DC	RRI
2405.0 [m]	DC	RRI
2415.0 [m]	DC	RRI
2435.0 [m]	DC	RRI
2450.0 [m]	DC	RRI
2460.0 [m]	DC	RRI
2470.0 [m]	DC	RRI
2485.0 [m]	DC	RRI
2495.0 [m]	DC	RRI
2505.0 [m]	DC	RRI
2515.0 [m]	DC	RRI
2525.0 [m]	DC	RRI
2535.0 [m]	DC	RRI
2550.0 [m]	DC	RRI
2557.5 [m]	DC	RRI
2560.0 [m]	DC	RRI
2570.0 [m]	DC	RRI
2824.0 [m]	DC	RRI
2836.0 [m]	DC	RRI
2870.0 [m]	DC	RRI
2882.0 [m]	DC	RRI
2904.0 [m]	DC	RRI
2912.3 [m]	C	RRI
2916.5 [m]	C	RRI
2936.5 [m]	C	RRI

### Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
RFT		2909.00	0.00	WATER		YES

### Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
77	<a href="#">NORLAND GP</a>



1403	<a href="#">HORDALAND GP</a>
2456	<a href="#">ROGALAND GP</a>
2456	<a href="#">BALDER FM</a>
2487	<a href="#">SELE FM</a>
2507	<a href="#">LISTA FM</a>
2545	<a href="#">MAUREEN FM</a>
2558	<a href="#">SHETLAND GP</a>
2558	<a href="#">EKOFISK FM</a>
2596	<a href="#">TOR FM</a>
2799	<a href="#">CROMER KNOLL GP</a>
2830	<a href="#">TYNE GP</a>
2907	<a href="#">VESTLAND GP</a>
2945	<a href="#">NO GROUP DEFINED</a>
2945	<a href="#">SKAGERRAK FM</a>
2998	<a href="#">ZECHSTEIN GP</a>
4166	<a href="#">ROTLIEGEND GP</a>

### Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">220</a>	pdf	0.68

### Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">220_1</a>	pdf	0.19

### Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">220_01 WDSS General Information</a>	pdf	0.11
<a href="#">220_02 WDSS completion log</a>	pdf	0.31

### Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">220_01_3_7_2_GEOLOGICAL_COMPLETION_REPORT</a>	PDF	21.52
<a href="#">220_02_3_7_2_Completion_Report</a>	pdf	21.52
<a href="#">220_03_3_7_2_Completion_log</a>	pdf	1.85
<a href="#">220_3_7_2_BIOSTRATIGRAPHICAL_REPORT</a>	PDF	0.86
<a href="#">220_3_7_2_CALIBRATED_SONIC_AND_IMPEDANCE_LOG_ON_SEISMIC_SECTION</a>	PDF	1.93
<a href="#">220_3_7_2_CORE_DESCRIPTION_CORE_1-5</a>	PDF	0.15
<a href="#">220_3_7_2_FLUIDS_PROGRAM</a>	PDF	1.97
<a href="#">220_3_7_2_PRELIMINARY_REPORT_CORE_1-4</a>	PDF	0.46
<a href="#">220_3_7_2_SIDEWALL_CORES_DESCRIPTION</a>	PDF	2.03

### Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	300	2551
CBL	2300	3012
FDC CNL GR CAL	753	2562
FDC GR CAL	148	772
HDT	1732	2560
HDT	2554	3026
HDT	3010	4293
ISF SONIC GR	148	773
ISF SONIC GR	754	1850
ISF SONIC GR	1800	2562
ISF SONIC NGT	2554	3027
ISF SONIC NGT	3010	4244
ISF SONIC NGT	4023	4324
LDL CNL GR CAL	2553	3026
LDL CNL GR CAL	3011	4243
LDL CNL GR CAL	4122	4301
NGS	3010	4244
SONIC GR	3001	4000

### Foringsrør og formasjonsstyrketester





# Faktasider

## Brønnbane / Leting

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Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	148.0	36	148.0	0.00	LOT
SURF.COND.	20	754.0	26	770.0	1.48	LOT
INTERM.	13 3/8	2554.0	17 1/2	2563.0	1.82	LOT
INTERM.	9 5/8	3012.0	12 1/4	3027.0	2.05	LOT
OPEN HOLE		4330.0	8 1/2	4330.0	0.00	LOT

### Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
170	1.15			seawater	
350	1.19			seawater	
1140	1.19	55.0		waterbased	
2450	1.40	33.0		waterbased	
2805	1.50	36.0		waterbased	
3050	1.52	32.0		waterbased	
3550	1.65	65.0		waterbased	
3930	1.70	70.0		waterbased	

### 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]
<a href="#">220 Formation pressure (Formasjonstrykk)</a>	pdf	0.22

