



Generell informasjon

Brønnbane navn	7/8-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	7/8-3 (Krabbe)
Brønn navn	7/8-3
Seismisk lokalisering	NH CN 82 - 119 SP 667
Utvinningstillatelse	069
Boreoperatør	Conoco Norway Inc.
Boretillatelse	387-L
Boreinnretning	BORGNY DOLPHIN
Boredager	92
Borestart	12.09.1983
Boreslutt	12.12.1983
Frigitt dato	12.12.1985
Publiseringsdato	19.10.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	ULA FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	81.0
Totalt målt dybde (MD) [m RKB]	4320.0
Totalt vertikalt dybde (TVD) [m RKB]	4320.0
Temperatur ved bunn av brønnbanen [°C]	172
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	57° 15' 30.58" N
ØV grader	2° 32' 45.78" E
NS UTM [m]	6346394.87



ØV UTM [m]	472613.75
UTM sone	31
NPDID for brønnbanen	28

Brønnhistorie

General

Well 7/8-3 is located in the North Sea, north of the Mime field on the margin of the Cod Terrace. The primary objective of 7/8-3 was to explore the hydrocarbon potential of the Late Jurassic sandstones. Secondary objectives were to explore the Cretaceous Chalk and the Triassic sandstones. Planned TD was at 4275 m in Permian salt.

Operations and results

Wildcat well 7/8-3 was spudded with the semi-submersible installation Borgny Dolphin on 12 September 1983 and drilled to TD at 4320 m in the Late Permian Zechstein Group. While running 13 3/8" casing this got stuck and had to be pulled out of the hole. The hole was cleaned and new casing was set without further complications. Otherwise no significant problems were encountered during drilling. The well was drilled with spud mud down to 199 m and with KCl polymer mud from 199 m to TD.

The Cretaceous Chalk was encountered at a depth of 3024 m, the Late Jurassic Ula Formation at 3724 m, and the Triassic at 3767 m. The Ula Formation sandstones were hydrocarbon bearing within a 43.5 m gross sand interval. No oil/water contact was encountered. Oil shows were recorded in shales and porous sections from 3699 m to 3751 m.

Four cores were cut in the interval 3731 m to 3773 m, three in the Upper Jurassic Ula Formation and one into Upper Triassic sandstones. A RFT fluid sample from the Triassic section at 4049.5 m recovered only mud filtrate.

The well was permanently abandoned on 12 December 1983 as an oil discovery.

Testing

Two DST's were performed in the Ula Formation sandstones: DST 1 from interval 3762 m to 3767 m, and DST 2 from interval 3734.5 m to 3740.5 m. The first produced oil at a slightly declining rate during the final 5-hours flow period, the average rate being 207 Sm³/day through a 2" choke. The GOR was 32 Sm³/Sm³, API oil gravity was 29 deg, and gas gravity was 0.88 (air = 1). The second DST produced 70 Sm³ oil/day through a 2" choke. API oil gravity was 29 deg. Gas was also produced, but the rate was not obtainable. Reservoir temperatures based on the DST measurements were 156 deg C in DST 1 and 154 deg C in DST 2.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
210.00	4321.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sökkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3731.0	3739.5	[m]
2	3739.8	3741.5	[m]
3	3741.7	3760.1	[m]
4	3760.1	3768.2	[m]

Total kjerneprøve lengde [m]	36.7
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3731-3736m



3737-3739m



3739-3740m



3741-3746m



3747-3752m



3753-3758m



3759-3760m



3760-3765m



3766-3768m

Palynologiske preparater i Sökkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3586.0	[m]	DC	
3592.0	[m]	DC	
3601.0	[m]	DC	
3610.0	[m]	DC	
3619.0	[m]	DC	
3628.0	[m]	DC	
3637.0	[m]	DC	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 08:28

3640.0 [m]	DC	
3649.0 [m]	DC	
3658.0 [m]	DC	
3667.0 [m]	DC	
3676.0 [m]	DC	
3685.0 [m]	DC	
3691.0 [m]	DC	HALIB
3694.0 [m]	DC	
3703.0 [m]	DC	
3706.0 [m]	DC	HALIB
3721.0 [m]	DC	HALIB
3730.0 [m]	DC	PETROSTR
3731.0 [m]	DC	HALIB
3735.1 [m]	C	PETROSTR
3736.2 [m]	C	HALIB
3738.4 [m]	C	PETROSTR
3742.2 [m]	C	PETROS
3745.3 [m]	C	HALIB
3746.9 [m]	C	PETROSTR
3748.0 [m]	C	HALIB
3750.9 [m]	C	PETROSTR
3753.6 [m]	C	HALIB
3754.8 [m]	C	PETROSTR
3758.3 [m]	C	HALIB
3758.9 [m]	C	PETROSTR
3760.0 [m]	DC	PETROS
3767.0 [m]	DC	PETROS
3775.0 [m]	DC	PETROS
3817.0 [m]	DC	SAGA
3829.0 [m]	DC	SAGA
3841.0 [m]	DC	SAGA
3856.0 [m]	DC	SAGA
3868.0 [m]	DC	SAGA
3880.0 [m]	DC	SAGA
3892.0 [m]	DC	SAGA
3904.0 [m]	DC	SAGA
3916.0 [m]	DC	SAGA
3931.0 [m]	DC	SAGA
3943.0 [m]	DC	SAGA
3955.0 [m]	DC	SAGA



3967.0	[m]	DC	SAGA
3979.0	[m]	DC	SAGA
3991.0	[m]	DC	SAGA
4003.0	[m]	DC	SAGA
4024.0	[m]	DC	SAGA
4042.0	[m]	DC	SAGA
4069.0	[m]	DC	SAGA
4099.0	[m]	DC	SAGA
4126.0	[m]	DC	SAGA
4153.0	[m]	DC	SAGA
4180.0	[m]	DC	SAGA
4210.0	[m]	DC	SAGA
4237.0	[m]	DC	SAGA
4243.0	[m]	DC	SAGA
4255.0	[m]	DC	SAGA
4267.0	[m]	DC	SAGA
4276.0	[m]	DC	SAGA
4291.0	[m]	DC	SAGA
4306.0	[m]	DC	SAGA
4315.0	[m]	DC	SAGA
4321.0	[m]	DC	SAGA

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1	3762.00	3767.00		02.12.1983 - 00:00	YES
DST	DST2	3734.50	3740.50		05.12.1983 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
106	NORDLAND GP
1334	HORDALAND GP
2717	ROGALAND GP
2717	BALDER FM
2753	SELE FM



2778	LISTA FM
2831	MAUREEN FM
2858	SHETLAND GP
2858	EKOFISK FM
3024	TOR FM
3275	HOD FM
3361	BLØDØKS FM
3367	HIDRA FM
3393	CROMER KNOLL GP
3393	RØDBY FM
3639	TYNE GP
3639	MANDAL FM
3675	FARSUND FM
3724	VESTLAND GP
3724	ULA FM
3767	NO GROUP DEFINED
3767	SMITH BANK FM
4237	ZECHSTEIN GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
28	pdf	0.91

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
28_1	pdf	1.71
28_2	pdf	3.00
28_3	pdf	0.77
28_4	pdf	2.18
28_5	pdf	0.40
28_6	pdf	1.77

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter





Dokument navn	Dokument format	Dokument størrelse [KB]
28_01_WDSS_General_Information	pdf	0.18
28_02_WDSS_completion_log	pdf	0.36

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
28_01_7_8_3_Final_Well_Report_and_Completion_log	pdf	9.77
28_02_7_8_3_Discovery_report_1984	pdf	7.95
28_02_7_8_3_Drill_Stem_Test_Report_1	pdf	1.97
28_02_7_8_3_Drill_Stem_Test_Report_2	pdf	1.42
28_02_7_8_3_DST_Technical_Report_Test1	pdf	0.45
28_02_7_8_3_DST_Technical_Report_Test2	pdf	0.42
28_02_7_8_3_Well_Testing_Report_Jurassic_Sand	pdf	3.64
28_03_7_8_3_Geco_Routine_Core_Analysis	pdf	0.25
28_03_7_8_3_Source_Rock_Evaluation_of_Sediments	pdf	2.47
28_03_7_8_3_Upper_Jurassic_Reservoir	pdf	0.68
28_04_7_8_3_Reservoir_Fluid_Study_DST1	pdf	0.55
28_04_7_8_3_Reservoir_Fluid_Study_DST2	pdf	0.72
28_05_7_8_3_Biostratigraphy_of_the_Interval_210m-4320m	pdf	2.66

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	3762	3767	50.0
2.0	3734	3741	50.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				





Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	207		0.882	0.880	32
2.0	70		0.882		

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	3350	3801
CST	2517	3550
CST	3639	4236
CYBERLOOK	3700	4240
DLL GR	3558	4257
DLWD	645	3719
DUALDIP	2000	4262
ILD LSS GR	1984	4261
ISF LSS MSFL GR	199	4261
LDL CNL GR	610	3566
LDL CNL NGL GR	3558	4262
RFT	3724	4170
SHDT ARROW	1975	4250
SHDT CYBERDIP	3558	4262
SHDT GEO	1984	4262
SHDT GR	1984	4262
TEMPERATURE	109	980
WST	205	4250

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	199.0	36	199.0	0.00	LOT
SURF.COND.	20	610.0	26	622.0	1.88	LOT
INTERM.	13 3/8	1981.0	17 1/2	1995.0	1.65	LOT
INTERM.	9 5/8	3554.0	12 1/4	3561.0	2.03	LOT
LINER	7	3827.0	8 1/2	4320.0	0.00	LOT



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]
28 Formation pressure (Formasjonstrykk)	pdf	0.22

