



Generell informasjon

Brønnbane navn	7/12-5
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	7/12-5 (Ula North)
Brønn navn	7/12-5
Seismisk lokalisering	SL CN7 - 118 SP: 220.
Utvinningstillatelse	019
Boreoperatør	BP Norway Limited U.A.
Boretillatelse	276-L
Boreinnretning	BORGSTEN DOLPHIN
Boredager	122
Borestart	06.02.1981
Boreslutt	07.06.1981
Frigitt dato	07.06.1983
Publiseringsdato	28.03.2014
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]	73.0
Totalt målt dybde (MD) [m RKB]	4440.0
Totalt vertikalt dybde (TVD) [m RKB]	4437.0
Maks inklinasjon [°]	4.75
Temperatur ved bunn av brønnbanen [°C]	152
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	57° 9' 49.01" N
ØV grader	2° 46' 42.35" E



NS UTM [m]	6335762.94
ØV UTM [m]	486598.60
UTM sone	31
NPDID for brønnbanen	299

Brønnhistorie

General

Well 7/12-5 was drilled ca 4 km northwest of the Ula Field in the North Sea. The objective was to test the hydrocarbon potential in Late Jurassic Sandstones. Secondary objectives were Early Jurassic and Triassic sandstones.

Operations and results

Wildcat well 7/12-5 was spudded with the semi-submersible installation Borgsten Dolphin 6 February 1981 and drilled to TD at 4440 m in the Late Permian Zechstein Group. There were some problems with drilling the section from 2851 to 3741 m due to junk in hole, otherwise operations proceeded without significant problems. The well was drilled with sea water and hi-vis pills and gel down to 467 m and with gypsum/lignosulphonate/CMC mud from 467 m to TD.

The Mandal Formation was penetrated at 3731 m, while the Farsund Formation was penetrated at 3763 m. The Ula Formation was penetrated at 3831 m and consisted of a 69.5 m thick homogenous sandstone, very fine to fine grained with poor reservoir characteristics (porosities from 7 to 14 % and permeabilities from 0.3 to 3 mD). All attempts to obtain reservoir pressures and fluid samples failed due to tight formation. Oil shows were recorded in the upper half of the reservoir and an oil water contact was established at 3872. Log analysis indicated that no significant hydrocarbons were present below the Ula formation where all porous zones calculated high water saturations. Weak shows were recorded in sandstone in the interval 3940 to 3960 m in the Skagerrak Formation. Weak shows were recorded also in siltstone in an isolated sample from 2235 m in the Hordaland Group.

Four cores were cut from 3844.5 to 3912.15 m in the Ula, Fjerritslev, and Skagerrak formations. Core depths are 4.8 m deeper than logger's depth. No wire line fluid samples were taken.

The well was permanently abandoned on 7 June 1981 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
180.00	4436.00

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3844.5	3862.7	[m]
2	3862.7	3876.4	[m]
3	3876.3	3894.3	[m]
4	3894.3	3912.2	[m]

Total kjerneprøve lengde [m]	67.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3844-3847m



3847-3849m



3849-3852m



3852-3855m



3855-3858m



3858-3860m



3880-3882m



3862-3865m



3865-3868m



3868-3870m



3870-3873m



3873-3876m



3876-3876m



3876-3879m



3879-3881m



3881-3884m



3884-3887m



3887-3889m



3889-3892m



3892-3894m



3894-3897m



3897-3899m



3899-3902m



3902-3905m



3905-3907m



3907-3910m



3910-3912m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
99	NORDLAND GP
1650	HORDALAND GP
2645	ROGALAND GP
2645	BALDER FM
2686	SELE FM
2734	LISTA FM
2866	MAUREEN FM
2912	SHETLAND GP
2912	EKOFISK FM
3058	TOR FM
3289	HOD FM
3322	BLODØKS FM
3323	HIDRA FM
3332	CROMER KNOLL GP
3332	RØDBY FM
3528	ÅSGARD FM
3731	TYNE GP
3731	MANDAL FM
3763	FARSUND FM
3831	VESTLAND GP
3831	ULA FM



3901	FJERRITSLEV FM
3917	SKAGERRAK FM
4145	SMITH BANK FM
4393	ZECHSTEIN GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
299 1	pdf	0.92
299 2	pdf	3.85
299 3	pdf	0.32
299 4	pdf	10.11

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
299 01 WDSS General Information	pdf	0.10
299 02 WDSS completion log	pdf	0.31

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
299 7 12 5 COMPLETION REPORT AND LOG	pdf	14.39

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	4185	4197	14.3

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





Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyingde rel. luft	GOR [m3/m3]
1.0	470	118000	0.828	0.876	251

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL CCL	98	1818
CST	3732	4113
DLL MSFL GR SP CAL	3733	4043
FDC CNL GR SP CAL	3695	4432
HDT	3718	4116
HRT	98	1804
ISF BHC GR SP	98	463
ISF BHC GR SP	3737	4430
ISF BHC GR SP MSFL	454	3738
ISF BHC GR SP MSFL	4056	4113

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	182.0	36	188.0	0.00	LOT
SURF.COND.	20	456.0	26	467.0	1.99	LOT
INTERM.	13 3/8	1658.0	17 1/2	1670.5	1.83	LOT
INTERM.	9 5/8	3732.0	12 1/4	3740.0	2.06	LOT
OPEN HOLE		4440.0	8 1/2	4440.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
188	1.05			WATER BASED	03.06.1981
325	1.08			WATER BASED	03.06.1981
467	1.29			WATER BASED	03.06.1981
509	1.15			WATER BASED	03.06.1981
849	1.16			WATER BASED	03.06.1981
1029	1.17			WATER BASED	03.06.1981



1246	1.22			WATER BASED	03.06.1981
1670	1.40			WATER BASED	03.06.1981
1924	1.42			WATER BASED	03.06.1981
2085	1.42			WATER BASED	03.06.1981
2166	1.42			WATER BASED	03.06.1981
2224	1.42			WATER BASED	03.06.1981
2414	1.43			WATER BASED	03.06.1981
2835	1.48			WATER BASED	03.06.1981
3006	1.48			WATER BASED	03.06.1981
3113	1.48			WATER BASED	03.06.1981
3417	1.48			WATER BASED	03.06.1981
3741	1.50			WATER BASED	03.06.1981
4193	1.50			WATER BASED	03.06.1981
4249	1.50			WATER BASED	03.06.1981
4332	1.49			WATER BASED	03.06.1981
4440	1.50			WATER BASED	03.06.1981