



General information





Wellbore name	2/7-19
Type	EXPLORATION
Purpose	WILDCAT
Status	SUSPENDED
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	2/7-19 (Ebba)
Well name	2/7-19
Seismic location	PG 030615 SP.12
Production licence	018
Drilling operator	Phillips Petroleum Company Norway
Drill permit	262-L
Drilling facility	BORGSTEN DOLPHIN
Drilling days	154
Entered date	02.09.1980
Completed date	02.02.1981
Release date	02.02.1983
Publication date	17.06.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	LATE JURASSIC
1st level with HC, formation	ULA FM
Kelly bushing elevation [m]	25.0
Water depth [m]	73.0
Total depth (MD) [m RKB]	4876.0
Final vertical depth (TVD) [m RKB]	4876.0
Maximum inclination [°]	3.4
Bottom hole temperature [°C]	154
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	56° 20' 19.1" N
EW degrees	3° 6' 12.2" E
NS UTM [m]	6243913.56
EW UTM [m]	506391.96
UTM zone	31
NPDID wellbore	1367

**Wellbore history**

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General

Well 2/7-19 is located ca 10 km west of the Embla and Eldfisk fields in the southern Norwegian North Sea. The objective was to test the Danian - Late cretaceous limestone, and sandstones of the Early Cretaceous and Jurassic on a low relief structure. Well 2/7-19 was the third attempt to drill this prospect. The first two attempts, 2/7-17 and 2/7-18, were junked because of mechanical problems.

Operations and results

Well 2/7-19 was spudded with the semi-submersible installation Borgny Dolphin on 2 September 1980 and drilled to TD at 4877 m in the Late Permian Zechstein Group. A total of 154 days on the location were used to drill and abandon the well. The well was drilled to a depth of 4785 m with 16.0 ppg mud. This was on 17 November. An estimated 12 m of Early Cretaceous sandstone had been penetrated and the drilling gas had increased after entering this zone, with some indications of hydrocarbons. The well was static with 16.0 ppg density mud, however the weight was raised to come out of the hole and commence coring. Upon raising the mud weight to 16.3 ppg a pack-off occurred which broke down a formation and circulation was lost. Circulation was re-established with 16.0 ppg mud. The mud weight was then raised in stages from 16.2 ppg to give an adequate trip margin to log. Logs were run, after which lost circulation problems again occurred. It took up to January 8 1981 before problems were cured and drilling could commence. The well was drilled with seawater and pre-hydrated bentonite down to 593 m, with seawater/bentonite/native solids from 593 m to 1600 m, and with seawater/Drispac/lignosulphonate from 1600 m to TD.

No hydrocarbons were encountered in the Danian - Late Cretaceous limestone. Some fluorescence was observed on limestones in the Tor Formation and in the Hydra Formation. Gas-bearing sands of the Ula Formation were encountered. Oil shows were recorded in these sands, generally described as dull yellow fluorescence and slow yellow cut.

One conventional core was cut from 3143.7 - 3162.0 m in the top of the Ekofisk Formation. One RFT fluid sample was recovered from 4772.2 m in an Ula Formation sandstone unit. The sample consisted of 50% gas-cut mud, where the gas gravity was 0.78 (air = 1). The RFT results indicated pressures too high to be safely tested with the rig equipment and BOP's on the rig at that time.

The well was suspended on 19 June 1989 pending further evaluation and possible testing.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
586.00	4876.00

Cuttings available for sampling?	YES
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**Cores at the Norwegian Offshore Directorate**

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	10314.0	10370.3	[ft]

Total core sample length [m]	17.2
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
4547.0	[m]	DC	OD
4580.0	[m]	DC	OD
4583.0	[m]	DC	HRS
4593.0	[m]	DC	OD
4596.0	[m]	DC	HRS
4596.0	[m]	DC	OD
4608.0	[m]	DC	HRS
4617.0	[m]	DC	OD
4620.0	[m]	DC	OD
4623.0	[m]	DC	HRS
4626.0	[m]	DC	OD
4635.0	[m]	DC	HRS
4647.0	[m]	DC	HRS
4647.0	[m]	DC	OD
4666.0	[m]	DC	OD
4684.0	[m]	DC	OD
4705.0	[m]	DC	OD
4721.0	[m]	DC	OD
4736.0	[m]	DC	OD
4754.0	[m]	DC	OD
4760.0	[m]	DC	HRS
4766.0	[m]	DC	HRS
4766.0	[m]	DC	OD
4781.0	[m]	DC	OD
4785.0	[m]	DC	HRS
4800.0	[m]	DC	OD



4803.0	[m]	DC	OD
4821.0	[m]	DC	OD
4839.0	[m]	DC	OD
4852.0	[m]	DC	OD
4858.0	[m]	DC	OD
4867.0	[m]	DC	OD
4873.0	[m]	DC	OD

Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST		0.00	0.00		30.10.2000 - 00:00	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
98	NORDLAND GP
1530	HORDALAND GP
2987	ROGALAND GP
2987	BALDER FM
3004	SELE FM
3027	LISTA FM
3069	VÅLE FM
3130	SHETLAND GP
3130	EKOFISK FM
3188	TOR FM
3444	HOD FM
4055	BLODØKS FM
4081	HIDRA FM
4212	CROMER KNOLL GP
4212	RØDBY FM
4328	SOLA FM
4468	ÅSGARD FM
4586	TYNE GP
4586	MANDAL FM
4590	FARSUND FM



4693	VESTLAND GP
4693	ULA FM
4810	BRYNE FM
4840	ZECHSTEIN GP

Geochemical information

Document name	Document format	Document size [MB]
1367_1	pdf	0.26
1367_2	pdf	0.96

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
1367_01_WDSS_General_Information	pdf	0.10
1367_02_WDSS_completion_log	pdf	0.31

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
1367_01_2_7_19_Completion_Report_and_Completion_log	pdf	14.71
1367_01_2_7_19_Final_Well_Report_Exploratory	pdf	7.45
1367_04_2_7_19_Ebba_Palynology_and_Source_Rock_Potential	pdf	4.03

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL	1448	4836
CDM	3781	4849
CDM AP	3784	4877
DIL SONIC	3781	4784
FDC CNL	2896	4877
GR	91	586





ISF BHC	1586	3794
ISF BHC MSFL	4267	4877
ISF SONIC GR	586	1595
MPT ML MLL	3784	4877
RFT	0	0
VELOCITY	586	4877

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	153.9	36	154.5	0.00	LOT
SURF.COND.	20	585.5	26	593.4	1.40	LOT
INTERM.	13 3/8	1585.9	17 1/2	1600.2	1.87	LOT
INTERM.	9 5/8	3780.4	12 1/4	3799.9	2.02	LOT
LINER	7	4872.2	8 1/2	4876.8	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
134	2.12	71.0	27.3	OIL BASED	22.01.1990
134	2.04	20.0	19.2	WATER BASED	22.01.1990
149	2.04	20.0	16.8	WATER BASED	22.01.1990
291	2.04	20.0	8.1	WATER BASED	22.01.1990
1006	1.14	35.0		WATER BASED	02.02.1981
1356	2.04	20.0	13.9	WATER BASED	22.01.1990
1443	1.62	55.0		WATER BASED	02.02.1981
1544	2.04	19.0	9.6	WATER BASED	22.01.1990
1582	2.04	19.0	14.4	WATER BASED	22.01.1990
1600	1.19	42.0		WATER BASED	02.02.1981
2065	1.62	54.0		WATER BASED	02.02.1981
3001	2.04	21.0	6.7	WATER BASED	22.01.1990
3120	1.71	55.0		WATER BASED	02.02.1981
3437	1.71	52.0		WATER BASED	02.02.1981
3463	2.04	22.0	9.6	WATER BASED	22.01.1990
3800	1.73	45.0		WATER BASED	02.02.1981
4065	1.92	52.0		WATER BASED	02.02.1981
4163	1.92	47.0		WATER BASED	02.02.1981



4459	1.92	56.0		WATER BASED	02.02.1981
4604	1.92	50.0		WATER BASED	02.02.1981
4785	1.96	62.0		WATER BASED	02.02.1981
4862	2.05	18.0	9.1	WATER BASED	22.01.1990
4863	2.04	19.0	9.6	WATER BASED	23.01.1990
4863	2.04	55.0	14.4	OIL BASED	25.01.1990
4863	2.04	55.0	8.1	OIL BASED	26.01.1990
4863	2.04	39.0	14.4	OIL BASED	29.01.1990
4863	2.04	34.0	9.6	OIL BASED	29.01.1990
4863	2.04	34.0	9.6	OIL BASED	30.01.1990
4863	2.05	33.0	10.1	OIL BASED	31.01.1990
4863	2.05	33.0	10.1	OIL BASED	01.02.1990
4863	2.05	22.0	5.3	WATER BASED	24.01.1990
4863	2.04	55.0	8.1	OIL BASED	29.01.1990
4863	2.04	34.0	9.6	OIL BASED	29.01.1990
4985	2.01	47.0		WATER BASED	02.02.1981

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
1367 Formation pressure (Formasjonstrykk)	PDF	0.22

