General information

Wellbore name	2/1-10
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/1-10
Seismic location	GYDA 3D IN LINE 122 X- LINE 1006
Production licence	164
Drilling operator	BP Norway Limited U.A.
Drill permit	703-L
Drilling facility	ROSS ISLE
Drilling days	67
Entered date	09.11.1991
Completed date	14.01.1992
Release date	14.01.1994
Publication date	24.09.2002
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	23.0
Water depth [m]	66.0
Total depth (MD) [m RKB]	4525.0
Final vertical depth (TVD) [m RKB]	4523.1
Maximum inclination [°]	6.65
Bottom hole temperature [°C]	163
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	56° 57' 53.61'' N
EW degrees	3° 1' 19.7'' E
NS UTM [m]	6313619.42
EW UTM [m]	501346.22
UTM zone	31
NPDID wellbore	1865

Wellbore history

General

The well 2/1-10 was drilled on a prospect located within PL 164, 7.8km Northwest of Gyda Platform. The primary objective was to test the Upper Jurassic Ula Formation, if successfully, to prove a volume of oil that was commercial as a tie back development to the Gyda Platform. A secondary target was a younger Ula Formation interval.

Operations and results

The wildcat well 2/1-10 was spudded on 9 November 1991 with the semi-submersible installation "Ross Isle", and was completed 14 January 1992 in the Triassic Skagerrak Formation. The well was drilled with sea water and hi-vis pills down to 1101 m and with KCl polymer mud from 1101 m to TD. The upper part of the Ula Formation was encountered at 4189.5 m, 50 m deeper than originally predicted. A 133 m thick Ula Formation was encountered instead of the most likely prognosed model of 15 to 30 m thick Ula formation (intra Farsund) sandstone, separated from underlying Ula Sandstone by a 50 to 60 m thick Farsund mudstone. The Ula Formation was cored from 4194 m to 4289.5 m. Fair quality shows was observed in uppermost 5 meter of sandstone only. 2/1-10 was plugged and abandoned as dry well.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1110.00	4525.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	4193.0	4219.0	[m]
2	4219.0	4246.0	[m]
3	4246.0	4272.7	[m]
4	4272.7	4278.5	[m]
5	4278.5	4288.3	[m]

Total core sample length [m]	95.3
Cores available for sampling?	YES

Core photos


4193-4198m


4198-4203m


4203-4208m


4208-4213m


4213-4218m


4218-4221m


4221-4226m


4226-4231m


4231-4236m


4236-4241m


4241-4246m


4246-4250m


4250-4255m


4255-4260m


4260-4265m


4265-4270m


4270-4274m


4274-4279m


4279-4284m


4284-4288m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
4127.0	[m]	DC	PETROSTR
4133.0	[m]	DC	PETROS
4139.0	[m]	DC	PETROS
4145.0	[m]	DC	PETROS
4151.0	[m]	DC	PETROS
4157.0	[m]	DC	PETROS
4163.0	[m]	DC	PETROS

4169.0	[m]	DC	PETROS
4175.0	[m]	DC	PETROS
4181.0	[m]	DC	PETROS
4187.0	[m]	DC	PETROS
4194.4	[m]	C	PETROS
4196.1	[m]	C	PETROS
4198.7	[m]	C	PETROS
4203.2	[m]	C	PETROS
4204.0	[m]	C	PETROS
4205.0	[m]	DC	PETROS
4210.7	[m]	C	PETROS
4213.0	[m]	C	PETROS
4219.3	[m]	C	PETROS
4224.4	[m]	C	PETROS
4230.1	[m]	C	PETROS
4230.3	[m]	C	PETROS
4233.2	[m]	C	PETROS
4239.6	[m]	C	PETROS
4245.5	[m]	C	PETROS
4247.5	[m]	C	PETROS
4252.8	[m]	C	PETROS
4256.6	[m]	C	PETROS
4260.3	[m]	C	PETROS
4262.3	[m]	C	PETROS
4266.1	[m]	C	PETROS
4271.4	[m]	C	PETROS
4274.5	[m]	C	PETROS
4277.0	[m]	DC	PETROS
4279.4	[m]	C	PETROS
4287.4	[m]	C	PETROS
4307.0	[m]	DC	PETROS
4319.0	[m]	DC	PETROS
4331.0	[m]	DC	PETROS
4343.0	[m]	DC	PETROS
4355.0	[m]	DC	PETROS
4361.0	[m]	DC	PETROS
4373.0	[m]	DC	PETROS
4385.0	[m]	DC	PETROS
4397.0	[m]	DC	PETROS
4403.0	[m]	DC	PETROS

4415.0	[m]	DC	PETROS
4427.0	[m]	DC	PETROS
4433.0	[m]	DC	PETROS
4442.0	[m]	DC	PETROS

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
89	NORDLAND GP
1712	HORDALAND GP
2977	ROGALAND GP
2977	BALDER FM
3003	SELE FM
3015	LISTA FM
3168	VÅLE FM
3221	SHETLAND GP
3221	EKOFISK FM
3323	TOR FM
3607	HOD FM
3789	BLODØKS FM
3822	HIDRA FM
3852	CROMER KNOLL GP
3852	RØDBY FM
3889	SOLA FM
3914	TUXEN FM
3964	ÅSGARD FM
4127	TYNE GP
4127	MANDAL FM
4156	FARSUND FM
4189	VESTLAND GP
4189	ULA FM
4322	TYNE GP
4322	FARSUND FM
4347	HAUGESUND FM
4435	NO GROUP DEFINED
4435	SKAGERRAK FM

Composite logs

Document name	Document format	Document size [MB]
1865	pdf	0.61

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

Document name	Document format	Document size [MB]
1865_01_WDSS_General_Information	pdf	0.49
1865_02_WDSS_completion_log	pdf	0.25

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

Document name	Document format	Document size [MB]
1865_2_1_10_COMPLETION_LOG	pdf	1.75
1865_2_1_10_DRILLING_COMPLETION_REPORT	pdf	9.65
1865_2_1_10_GEOLOGICAL_COMPLETION_REPORT	PDF	22.86

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	3840	4515
DIL LLS GR	89	3241
DLL MSFL SDT GR	3233	4525
LDL CNL GR	4050	4525
MWD	89	4525
RFT GR	4193	4463
RFT GR	4226	4226
SHDT GR	3800	4525
VSP	1000	4375

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	160.0	36	161.0	0.00	LOT

INTERM.	13 3/8	1096.0	17 1/2	1100.0	1.99	LOT
INTERM.	9 5/8	3234.0	12 1/4	3236.0	1.94	LOT
LINER	7	4525.0	8 1/2	4525.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
687	1.60	28.0	3.8	WATER BASED	14.01.1992
817	1.59	30.0	4.8	WATER BASED	14.01.1992
1100	1.08			WATER BASED	15.11.1991
1100	1.07			WATER BASED	19.11.1991
1100	1.08			WATER BASED	13.11.1991
1100	1.08			WATER BASED	15.11.1991
1100	1.07	54.0	15.4	WATER BASED	19.11.1991
1100	1.03			WATER BASED	19.11.1991
1101	1.40	32.0	9.1	WATER BASED	20.11.1991
1250	1.45	29.0	8.2	WATER BASED	20.11.1991
1636	1.57	32.0	8.6	WATER BASED	20.11.1991
1763	1.60	35.0	8.6	OIL BASED	21.11.1991
2023	1.60	41.0	9.1	WATER BASED	22.11.1991
2172	1.60	41.0	7.7	WATER BASED	25.11.1991
2290	1.60	45.0	9.6	WATER BASED	25.11.1991
2502	1.60	43.0	9.1	WATER BASED	25.11.1991
2710	1.60	44.0	8.2	WATER BASED	26.11.1991
2864	1.60	41.0	7.7	WATER BASED	27.11.1991
2906	1.60	44.0	8.2	WATER BASED	28.11.1991
3002	1.60	43.0	9.2	WATER BASED	29.11.1991
3060	1.60	49.0	10.6	WATER BASED	02.12.1991
3119	1.60	40.0	9.1	WATER BASED	02.12.1991
3128	1.57	47.0	7.2	WATER BASED	14.01.1992
3128	1.57	40.0	6.7	WATER BASED	14.01.1992
3162	1.60	49.0	10.6	WATER BASED	02.12.1991
3242	1.60	47.0	10.8	WATER BASED	04.12.1991
3242	1.60	45.0	9.3	WATER BASED	05.12.1991
3242	1.61	61.0	13.4	WATER BASED	05.12.1991
3242	1.61	44.0	10.6	WATER BASED	06.12.1991
3313	1.30	35.0	12.0	WATER BASED	09.12.1991
3366	1.55	42.0	13.0	WATER BASED	09.12.1991

3420	1.55	38.0	11.0	WATER BASED	09.12.1991
3572	1.55	43.0	12.0	WATER BASED	11.12.1991
3695	1.55	40.0	11.0	WATER BASED	12.12.1991
3721	1.55	40.0	11.0	WATER BASED	12.12.1991
3772	1.55	43.0	11.5	WATER BASED	13.12.1991
3817	1.55	40.0	10.6	WATER BASED	16.12.1991
3900	1.55	37.0	8.6	WATER BASED	16.12.1991
3954	1.55	46.0	11.5	WATER BASED	16.12.1991
3992	1.55	43.0	10.1	WATER BASED	17.12.1991
4092	1.57	51.0	10.6	WATER BASED	09.01.1992
4121	1.55	44.0	11.0	WATER BASED	18.12.1991
4193	1.55	43.0	10.6	WATER BASED	19.12.1991
4221	1.55	42.0	10.6	WATER BASED	20.12.1991
4244	1.56	41.0	9.1	WATER BASED	23.12.1991
4272	1.55	44.0	9.6	WATER BASED	23.12.1991
4277	1.55	41.0	9.1	WATER BASED	23.12.1991
4287	1.55	42.0	9.6	WATER BASED	27.12.1991
4328	1.55	48.0	11.0	WATER BASED	27.12.1991
4424	1.55	49.0	11.5	WATER BASED	27.12.1991
4443	1.55	52.0	13.4	WATER BASED	27.12.1991
4443	1.55	49.0	12.0	WATER BASED	30.12.1991
4443	1.55	50.0	13.0	WATER BASED	30.12.1991
4525	1.55	50.0	12.0	WATER BASED	30.12.1991
4525	1.55	49.0	10.6	WATER BASED	06.01.1992
4525	1.55	42.0	8.6	WATER BASED	06.01.1992
4525	1.55	49.0	10.6	WATER BASED	06.01.1992
4525	1.55	48.0	10.6	WATER BASED	06.01.1992
4525	1.55	42.0	8.6	WATER BASED	06.01.1992
4525	1.55	48.0	10.6	WATER BASED	06.01.1992
4525	1.55	42.0	8.6	WATER BASED	06.01.1992
4525	1.55	53.0	10.6	WATER BASED	08.01.1992
4525	1.55	48.0	10.6	WATER BASED	06.01.1992
4525	1.55	49.0	10.6	WATER BASED	06.01.1992
4525	1.57	57.0	13.0	WATER BASED	07.01.1992

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]
1865_Formation_pressure_(Formasjonstrykk)	PDF	0.22