

General information

Wellbore name	2/1-2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/1-2
Seismic location	
Production licence	019 B
Drilling operator	BP Norway Limited U.A.
Drill permit	187-L
Drilling facility	NORSKALD
Drilling days	75
Entered date	14.12.1977
Completed date	26.02.1978
Release date	26.02.1980
Publication date	17.09.2007
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	70.0
Total depth (MD) [m RKB]	3555.5
Maximum inclination [°]	3.5
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	56° 57' 30.76" N
EW degrees	3° 12' 32.07" E
NS UTM [m]	6312932.05
EW UTM [m]	512705.46
UTM zone	31
NPDID wellbore	250

Wellbore history

General

Well 2/1-2 is located on the Sørvestlandet High, ca 6 km northwest of the Gyda Field in The North Sea. The objective was to test possible Late Jurassic sands within a salt-induced structural high.

The well is Reference Well for the Mandal and Ula Formations.

Operations and results

Wildcat well 2/1-2 was spudded with the semi-submersible installation Nordskald on 14 December 1977 and drilled to TD at 3555 m, 15 m into Late Permian Zechstein anhydrite. The well was drilled with seawater and gel down to 174 m, with Lime Drispac from 174 m to 3135 m, and with Lignosulphonate from 3551 m to TD.

Fifty-two meter of Maureen Formation was encountered at 2692 m, directly overlying the Tor Formation at 2743.5 m. The Cromer Knoll Group came in at 3121.5 m, and top Jurassic shales (Mandal Formation), at 3299 m. The Mandal Formation was seen as a potentially excellent source rock for major oil, but was marginally mature on-structure. The well penetrated water-bearing Late Jurassic sandstone (Ula Formation) at a depth of 3316 m. The sandstone was 30.5 m thick and had porosities of less than 10% and permeabilities less than 1 md. The well then penetrated 37.5 m of argillaceous Middle Jurassic sandstone and 156 m of interbedded Triassic sandstones and siltstones with occasional mudstones. No shows were observed in the well while drilling.

One full hole core was cut within the Ula Formation sandstone from 3318 to 3336 m. No wire line fluid samples were taken.

The well was permanently abandoned on 26 February 1978 as a 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]
180.00	3551.00

Cuttings available for sampling?	NO
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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	3318.0	3336.2	[m]

Total core sample length [m]	18.2
Cores available for sampling?	YES

Core photos



3318-3322m

3322-3327m

3327-3331m

3331-3336m

3336-3336m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3314.0	[m]	DC	
3318.0	[m]	C	APT
3318.9	[m]	C	APT
3319.8	[m]	C	APT
3320.7	[m]	C	APT
3321.6	[m]	C	APT
3322.5	[m]	C	APT
3323.0	[m]	DC	
3323.4	[m]	C	APT
3324.3	[m]	C	APT
3325.2	[m]	C	APT
3326.1	[m]	C	APT
3327.0	[m]	C	APT
3327.9	[m]	C	APT
3328.8	[m]	C	APT
3329.7	[m]	C	APT
3330.6	[m]	C	APT
3331.5	[m]	C	APT
3332.0	[m]	DC	
3332.4	[m]	C	APT
3333.3	[m]	C	APT
3334.2	[m]	C	APT
3335.1	[m]	C	APT
3336.0	[m]	C	APT
3344.0	[m]	DC	
3362.0	[m]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
94	NORDLAND GP
1624	HORDALAND GP
2524	ROGALAND GP
2524	BALDER FM
2581	SELE FM
2603	LISTA FM
2692	MAUREEN FM
2744	SHETLAND GP
2744	TOR FM
3015	HOD FM
3122	CROMER KNOLL GP
3122	RØDBY FM
3299	TYNE GP
3299	MANDAL FM
3316	VESTLAND GP
3316	ULA FM
3347	BRYNE FM
3384	NO GROUP DEFINED
3384	SMITH BANK FM
3540	ZECHSTEIN GP

Composite logs

Document name	Document format	Document size [MB]
250	pdf	0.53

Geochemical information

Document name	Document format	Document size [MB]
250_1	pdf	2.19
250_2	pdf	3.77

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

Document name	Document format	Document size [MB]
250_01_WDSS_General_Information	pdf	0.21
250_03_WDSS_lithlog	pdf	0.07

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

Document name	Document format	Document size [MB]
250_01_Completion_Report_and_Completion_Log	pdf	13.56

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CDM	3132	3285
CDM AP	3151	3274
CDM PP	3146	3274
FDC CNL	2445	3555
ISF SONIC	90	3555
TEMP	1413	2350

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud equiv. [g/cm3]	Formation test type
CONDUCTOR	30	169.0	36	174.0	0.00	LOT
SURF.COND.	20	557.0	26	562.0	0.00	LOT
INTERM.	13 3/8	2226.0	17 1/2	2231.0	0.00	LOT
INTERM.	9 5/8	3138.0	12 1/4	3140.0	0.00	LOT
OPEN HOLE		3551.0	8 1/2	3551.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
174	0.00			sea water	

310	0.00			spud mud	
774	1.40	43.0		waterbased	
1303	1.41	43.0		waterbased	
2104	1.50	52.0		waterbased	
2482	1.49	49.0		waterbased	
2672	1.48	49.0		waterbased	
2853	1.52	50.0		waterbased	
3277	1.49	52.0		waterbased	
3550	1.56	48.0		waterbased	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
3331.60	[m]

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]
250 Formation pressure (Formasjonstrykk)	PDF	0.22

