

**General information**

Wellbore name	7/12-10
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	7/12-5 (Ula North)
Well name	7/12-10
Seismic location	BPN 88 - 513 SP 272
Production licence	019
Drilling operator	BP Norway Limited U.A.
Drill permit	686-L
Drilling facility	ROSS ISLE
Drilling days	53
Entered date	08.07.1991
Completed date	29.08.1991
Release date	29.08.1993
Publication date	06.01.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	23.0
Water depth [m]	71.0
Total depth (MD) [m RKB]	3667.0
Final vertical depth (TVD) [m RKB]	3666.0
Maximum inclination [°]	2.74
Bottom hole temperature [°C]	116
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	57° 10' 57.37" N
EW degrees	2° 48' 18.47" E
NS UTM [m]	6337871.90
EW UTM [m]	488219.56
UTM zone	31
NPDID wellbore	1557



Wellbore history

General

Well 7/12-10 was drilled a few km north of the Ula Field, on the north-eastern side of the Cod Terrace in the North Sea. The primary objective was to prove a commercial volume of oil in the Late Jurassic Ula formation for tie back to the Ula platform. Secondary reservoir potential existed in both the middle Jurassic and the uppermost part of the Triassic.

Operations and results

Wildcat well 7/12-10 was spudded with the semi-submersible installation Ross Isle on 8 July 1991 and drilled to TD at 3667 m in the Triassic Skagerrak Formation. After the 30" conductor was set at 167 m, a 17 1/2" pilot hole was drilled without riser to 950 m. No indications of shallow gas were observed. The well was drilled with seawater and hi-vis slugs down to 948 m, with Ancoquat water based mud from 948 m to 2730 m, and with KCl/polymer mud from 2730 m to TD. The inhibitive Ancoquat mud system was tested for the first time on the Norwegian Continental Shelf in this well.

Shows of oil were observed from 3010 m to 3100 m in the Tor limestone. Subsequent intermediate logs however indicated that there was not sufficient quantity of oil to warrant testing the limestone. Top Mandal formation was encountered at 3531 m drilled depth/3538 m logged depth. Top Ula formation was seen at 3620m drilled depth/3627 m logged depth. This was 56 m deeper than prognosed, and the formation was also ca 30 m thinner than expected. The Ula sandstone was found water bearing with no shows and it was not in pressure communication with the main Ula field. Top Triassic was identified at 3641.5 m logged depth. It was water bearing with no shows.

Two conventional cores were cut from 3616 m to 3628 m and 3628 m to 3655 m with 100% recovery. Core # 1 covered the lower part of the Lower Carbonaceous member of the Farsund Formation and 7.5 m of the Ula Formation. Core # 2 covered the lowermost 7 m of the Ula formation and 20 m of micaceous sandstone of Triassic age. The core depths were ca 7 m shallower than logged depths. No wire line fluid samples were taken.

The well was permanently abandoned on 29 August 1993 as a dry well with shows.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
960.00	3667.00

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	3616.0	3627.8	[m]
2	3628.0	3655.0	[m]

Total core sample length [m]	38.8
Cores available for sampling?	YES

Core photos

3616-3621m



3621-3626m



3631-3636m



3636-3641m



3641-3646m



3646-3651m



3651-3655m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3532.0	[m]	DC	PETROSTR
3535.0	[m]	DC	PETROS
3538.0	[m]	DC	PETROS
3541.0	[m]	DC	PETROS
3544.0	[m]	DC	PETROS
3547.0	[m]	DC	PETROS
3550.0	[m]	DC	PETROS
3556.0	[m]	DC	PETROS
3562.0	[m]	DC	PETROS
3568.0	[m]	DC	PETROS
3574.0	[m]	DC	PETROS
3580.0	[m]	DC	PETROS
3586.0	[m]	DC	PETROS



3592.0 [m]	DC	PETROS
3598.0 [m]	DC	PETROS
3604.0 [m]	DC	PETROS
3610.0 [m]	DC	PETROS
3616.0 [m]	DC	PETROS
3620.0 [m]	C	PETROS
3624.2 [m]	C	PETROS
3628.3 [m]	C	PETROS
3632.2 [m]	C	PETROS
3638.5 [m]	C	PETROS
3641.6 [m]	C	PETROS

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
95	NORDLAND GP
1930	HORDALAND GP
2658	ROGALAND GP
2658	BALDER FM
2700	SELE FM
2763	LISTA FM
2861	VIDAR FM
2917	VÅLE FM
2935	SHETLAND GP
2935	EKOFISK FM
3000	TOR FM
3180	HOD FM
3282	BLODØKS FM
3283	HIDRA FM
3284	HIDRA FM
3286	CROMER KNOLL GP
3286	RØDBY FM
3332	SOLA FM
3362	TUXEN FM
3385	ÅSGARD FM
3538	TYNE GP
3538	MANDAL FM
3564	FARSUND FM
3627	VESTLAND GP



3627	ULA FM
3642	SKAGERRAK FM

Geochemical information

Document name	Document format	Document size [MB]
1557_1	pdf	0.29
1557_2	pdf	0.63

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

Document name	Document format	Document size [MB]
1557_01_WDSS_General_Information	pdf	0.44
1557_02_WDSS_completion_log	pdf	0.20

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

Document name	Document format	Document size [MB]
1557_7_12_10_Completion_log	pdf	1.26
1557_7_12_10_Completion_report	pdf	18.79

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CHECKSHOT	1900	3665
CST GR	2918	3673
DLL MSFL ASL GR	3096	3669
DLL MSFL ASL GR SP	2726	3153
DLL MSFL LSS GR SP	70	2730
LDL CNL GR	2829	3156
LDL CNL NGS	3600	3672
RFT GR	3013	3065

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	167.0	36	168.0	0.00	LOT
INTERM.	20	939.0	26	948.0	1.75	LOT
INTERM.	13 3/8	2724.0	17 1/2	2730.0	1.75	LOT
OPEN HOLE		3667.0	12 1/4	3667.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
550	1.03			water based	
950	1.03			water based	
1064	1.75	34.0		water based	
1366	1.55	37.0		water based	
1501	1.55	42.0		water based	
2300	1.60	11.0		water based	
2724	1.57	43.0		water based	
3151	1.55	29.0		water based	
3667	1.57	27.0		water based	
3667	1.55	37.0		water based	

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]
1557 Formation pressure (Formasjonstrykk)	pdf	0.22

