

**General information**

Wellbore name	1/3-10 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	OSELVAR
Discovery	1/3-6 Oselvar
Well name	1/3-10
Seismic location	BPN 9202 R02 3D dataset inline 904 & crossline 3018
Production licence	274
Drilling operator	DONG E&P Norge AS
Drill permit	1168-L
Drilling facility	MÆRSK GUARDIAN
Drilling days	38
Entered date	07.01.2008
Completed date	13.02.2008
Release date	13.02.2010
Publication date	13.02.2010
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	PALEOCENE
1st level with HC, formation	FORTIES FM
Kelly bushing elevation [m]	45.0
Water depth [m]	72.0
Total depth (MD) [m RKB]	3632.0
Final vertical depth (TVD) [m RKB]	3335.0
Maximum inclination [°]	53.8
Bottom hole temperature [°C]	145
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	SELE FM
Geodetic datum	ED50
NS degrees	56° 55' 39.86" N
EW degrees	2° 42' 20.69" E



NS UTM [m]	6309521.94
EW UTM [m]	482089.29
UTM zone	31
NPDID wellbore	5779

Wellbore history

General

Well 1/3-10 A is located on the Hidra High, ca 20 km south-south west of the Ula Field in the North Sea. It was drilled to further appraise the Forties Formation Sandstone in the Oselvar structure, after the primary well 1/3-10 had confirmed oil and gas in the structure. The main goal of the sidetrack well was to penetrate the water leg for water sampling and establish the free water level in the structure.

Operations and results

The Oselvar 1/3-10 A appraisal sidetrack kicked off in the claystones of the Hordaland Group at 2276 m on 7 January 2008. It was drilled with the jack-up installation Mærsk Guardian to final TD at 3632 m in the lower part of the Sele Formation below the target Forties Sandstone. The well was drilled without significant technical problems. It was drilled with Carbo SEA OBM from kick-off to TD.

The well track penetrated the remaining Hordaland claystone, and the claystones, tuffaceous claystones and sandstones of the Rogaland Group (Paleocene-Eocene), which included the Balder Formation, the Sele Formation, and the target Forties Sandstone Member. The top of the Balder Formation came in only 1 m TVD shallow compared to prognosis, the Sele Formation came in deep (10 m TVD) compared to prognosis. The Forties Sandstone came in at 3516 m (3257 m TVD RKB), 11 m TVD compared to prognosis. The log data confirmed that the well had penetrated the water leg of the reservoir as expected, and indicated 64 m MD (43 m TVD) gross reservoir and a net reservoir of 37 m MD (25 m TVD), giving a Net/Gross of 0.58. The net reservoir, all of which is considered to be non-pay, has an average porosity of 18 % and mobilities in the range 1-13 mD/cP. Pressure measurements indicated a free water level at 3245 m TVD RKB.

From petrophysical evaluation the water bearing reservoir was found to contain residual hydrocarbons. The only oil show in the well was a weak oil stain at 3525 m (3263 m TVD RKB) in the Forties Formation.

No cores were cut in 1/3-10 A. An RCI log was run for pressure and fluid sampling. Water samples were taken at 3556 m, 3572 m, and 3536.75 m.

The well was permanently abandoned on 13 January 2008 as an oil and gas appraisal well.

Testing

No DST was carried out

Cuttings at the Norwegian Offshore Directorate



Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
2310.00	3631.80

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
117	NORDLAND GP
1685	HORDALAND GP
3320	ROGALAND GP
3320	BALDER FM
3348	SELE FM
3516	FORTIES FM
3580	SELE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DSL	2145	3569
MWD LWD - ...PCDC BAT	2283	3126
MWD LWD - ...PCDC BAT	3126	3632
MWD LWD - EWR DGR PWD ALD CTN...	3126	3632
MWD LWD - PWD DGR EWR ALD CTN...	2282	3126
RCI	3495	3577
ZDL DSL	2193	3616

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
OPEN HOLE		2276.0	8 1/2	3632.0	1.90	LOT

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]
5779 Formation pressure (Formasjonstrykk)	pdf	0.22

