

**General information**

Wellbore name	2/5-5
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	2/5-3 (Sørøst Tor)
Well name	2/5-5
Seismic location	
Production licence	006
Drilling operator	Amoco Norway Oil Company
Drill permit	81-L
Drilling facility	ZAPATA EXPLORER
Drilling days	63
Entered date	09.12.1972
Completed date	09.02.1973
Release date	09.02.1975
Publication date	02.04.2007
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	LATE CRETACEOUS
1st level with HC, formation	TOR FM
Kelly bushing elevation [m]	36.0
Water depth [m]	65.0
Total depth (MD) [m RKB]	3456.0
Bottom hole temperature [°C]	107
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	TOR FM
Geodetic datum	ED50
NS degrees	56° 34' 54.4" N
EW degrees	3° 25' 49.1" E
NS UTM [m]	6271055.43
EW UTM [m]	526433.88
UTM zone	31
NPDID wellbore	260



Wellbore history

General

Well 2/5-5 was drilled ca 2 km southwest of the 2/5-3 Sørøst Tor Discovery well in the southern Norwegian North Sea. It was drilled to appraise the Sørøst Tor Discovery

Operations and results

Appraisal well 2/5-5 was spudded with the jack-up installation Zapata Explorer on 9 December 1972 and drilled to TD at 3456 m in the Late Cretaceous Tor Formation.

Top Paleocene was encountered at 3058 m, top Danian chalk (Ekofisk Formation) at 3176 m, and top Maastrichtian chalk (Tor Formation) at 3274 m. The only oil show reported above top Cretaceous was in thin dolomite stringers at 2940 - 2950 m. Oil shows were recorded in the Tor Formation from the top and down to 3383 m. Oil was confirmed by testing in the Tor Formation.

Two cores were cut in the interval 3284 - 3321 m in the Tor Formation. No wire line fluid sample was taken.

The well was permanently abandoned on 9 February 1973 as an oil appraisal.

Testing

Three drill stem tests were conducted in the Tor Formation. The following results are after acidizing:

DST 1 tested the interval 3428 - 3437 m in. At the end of the flow period only load water had come to surface and the pressure had dropped to zero.

DST 2 tested the interval 3355 - 3366 m. After 31 hours flow only acid and water cushion was produced to surface.

DST 3 tested the intervals 3297 to 3298 m + 3307 to 3308 + 3312.9 to 3313.5 m. This test produced 72 Sm³ oil, 12430 Sm³ gas, and 195 m³ water /day on a 64/64" choke. The GOR was 171 Sm³/Sm³ and the oil gravity was 39.4 deg API.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
144.78	3441.19

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	10776.0	10838.0	[ft]



2	10838.0	10896.0	[ft]
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Total core sample length [m]	36.6
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
100	NORDLAND GP
1887	HORDALAND GP
3058	ROGALAND GP
3058	BALDER FM
3063	SELE FM
3069	LISTA FM
3161	VÅLE FM
3176	SHETLAND GP
3176	EKOFISK FM
3274	TOR FM

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

Document name	Document format	Document size [MB]
260_01_WDSS_General_Information	pdf	0.26

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	3425	3434	0.0
3.0	3297	3313	25.4

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				
3.0				





Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0					
3.0	72	12430	0.829		171

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC-C	1596	3456
CBL	1015	3441
CDM	1589	3458
CDM AP	1589	3458
CDM FP	1598	3065
CDM PP	1589	3458
CDM SP	1589	3458
CNL CCL	2987	3441
DIR	3064	3458
DL	3064	3459
FDC CNL	3094	3459
GR	366	1650
IES	1589	3459
PML	3064	3458
VELOCITY	1589	3456

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	151.0	36	151.0	0.00	LOT
SURF.COND.	20	374.0	26	389.0	0.00	LOT
INTERM.	13 3/8	1586.0	17 1/2	1601.0	0.00	LOT
INTERM.	9 5/8	3061.0	12 1/4	3080.0	0.00	LOT
LINER	7	3461.0	8 1/2	3456.0	0.00	LOT