General information

Wellbore name	2/5-8
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	2/5-8
Seismic location	ANO 79 - 56 SP 133
Production licence	006
Drilling operator	Amoco Norway Oil Company
Drill permit	585-L
Drilling facility	DYVI STENA
Drilling days	49
Entered date	18.09.1988
Completed date	05.11.1988
Release date	05.11.1990
Publication date	17.10.2007
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	66.5
Total depth (MD) [m RKB]	3367.0
Final vertical depth (TVD) [m RKB]	3364.0
Maximum inclination [°]	4.3
Bottom hole temperature [°C]	132
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	HOD FM
Geodetic datum	ED50
NS degrees	56° 35' 16.5'' N
EW degrees	3° 26' 22.2'' E
NS UTM [m]	6271742.34
EW UTM [m]	526994.31
UTM zone	31
NPDID wellbore	1308

Wellbore history

General

Well 2/5-8 is located on the South East Tor Field in block 2/5 in the Central Trough in the North Sea. The overall outline of the field had previously been defined by the wells 2/5-3 and 2/5-5. The purpose of the well was to test the distribution of high-porosity, re-deposited chalk and productive zones west of the major NS trending crestal fault in the field. It was also planned to test the productivity of the chalk in both the Ekofisk and the Tor Formations on the flanks, confirm reserve calculations for the structure and get good oriented core coverage in both formations.

Operations and results

Appraisal well 2/5-8 was spudded with the semi-submersible installation Dyvi Stena on 18 September 1988 and drilled to TD at 3367 m in the Late Cretaceous Hod Formation. Drilling proceeded without significant problems. The well was drilled with seawater and pre-hydrated gel sweeps down to 370 m and with water based gypsum/polymer non-dispersed mud from 370 m to TD.

Top Ekofisk came in at 3107 m and top Tor Formation at 3204 m. Two cores were cut in the interval 3115 - 3142.5 m in the Ekofisk Formation and another three cores in the interval 3207 - 3291 m in the Tor Formation. The chalk was of a relatively poor reservoir quality both in the Ekofisk and Tor Formation, and oil staining were only found along fracture planes in cores from the Tor Formation. The logs confirmed the negative result from the cores.

No fluid samples were taken in the well.

The well was permanently abandoned on 5 November 1988 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]
390.00	3365.00

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	3115.0	3130.0	[m]
2	3130.0	3142.0	[m]
3	3207.0	3234.9	[m]

4	3235.0	3263.0	[m]
5	3262.0	3291.3	[m]

Total core sample length [m]	112.2
Cores available for sampling?	YES

Core photos


3115-3120m


3120-3125m


3125-3130m


3130-3135m


3135-3140m


3140-3142m


3207-3212m


3212-3217m


3217-3222m


3222-3227m


3227-3232m


3232-3234m


3235-3240m


3240-3245m


3245-3249m


3249-3254m


3254-3259m


3259-3263m


3263-3268m


3268-3273m









3273-3278m 3278-3283m 3283-3288m 3288-3291m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
92	NORDLAND GP
1898	HORDALAND GP
2953	ROGALAND GP
2953	BALDER FM
2973	SELE FM
3042	LISTA FM
3090	MAUREEN FM
3107	SHETLAND GP
3107	EKOFISK FM
3204	TOR FM
3323	HOD FM

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

Document name	Document format	Document size [MB]
1308_01_WDSS_General_Information	pdf	0.30
1308_02_WDSS_completion_log	pdf	0.22

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

Document name	Document format	Document size [MB]
1308_2_5_8_COMPLETION_REPORT_AND_LOG	pdf	31.95

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL GR CCL	1100	2983
CST GR	3010	3360
DIL BHC GR CAL	1578	3013

DIL SFL BHC GR	3004	3366
DLL MAFL GR	3004	3368
FMS GR	3003	3368
LDT CNL GR	3004	3368
MWD - GR RES DIR	146	3199
RFT GR	3111	3290
VELOCITY	1660	3365

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	139.0	36	166.0	0.00	LOT
SURF.COND.	20	359.0	26	373.0	1.50	LOT
SURF.COND.	20	360.0	26	373.0	1.50	LOT
INTERM.	13 3/8	1582.0	17 1/2	1598.0	1.93	LOT
INTERM.	9 5/8	3006.0	12 1/4	3017.0	1.92	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
146	1.06	12.0		WATER BASED	
370	1.03	12.0		WATER BASED	
987	1.25	17.0		WATER BASED	
1595	1.43	29.0		WATER BASED	
1860	1.62	20.0		WATER BASED	
2145	1.62	21.0		WATER BASED	
2300	1.62	21.0		WATER BASED	
2728	1.62	21.0		WATER BASED	
3017	1.63	20.0		WATER BASED	
3124	1.62	23.0		WATER BASED	
3253	1.62	32.0		WATER BASED	
3356	1.62	32.0		WATER BASED	
3367	0.00			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]
1308_Formation_pressure_(Formasjonstrykk)	pdf	0.21