

**General information**

Wellbore name	2/8-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/8-3
Seismic location	
Production licence	006
Drilling operator	Amoco Norway Oil Company
Drill permit	72-L
Drilling facility	ZAPATA EXPLORER
Drilling days	80
Entered date	16.06.1972
Completed date	03.09.1972
Release date	03.09.1974
Publication date	26.10.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	34.0
Water depth [m]	69.0
Total depth (MD) [m RKB]	4115.0
Maximum inclination [°]	1.5
Bottom hole temperature [°C]	132
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	HAUGESUND FM
Geodetic datum	ED50
NS degrees	56° 18' 31" N
EW degrees	3° 26' 54.1" E
NS UTM [m]	6240656.75
EW UTM [m]	527741.32
UTM zone	31
NPDID wellbore	117



Wellbore history

General

Well 2/8-3 is located in the Feda Graben, ca 2 km north-east of the Valhall Field in the southern North Sea. The primary objective was to test the Jurassic hydrocarbon potential. The secondary objective was the chalk of the Shetland Group.

The well is reference well for the Haugesund and Farsund Formations.

Operations and results

Wildcat well 2/8-3 was spudded with the jack-up installation Zapata Explorer on 16 June 1972 and drilled to TD at 4115 m in Late Jurassic shales of the Haugesund Formation. The well took 48 days to complete and was drilled with unical/lignosulphonate/caustic based mud.

Reservoir quality rock was absent throughout the well. The first signs of oil were seen in Palaeocene tight siltstones with poor porosities. These were described as bright gold yellow fluorescence with a bright white streaming cut. Gas levels in the Shetland Group were low and no shows were seen in this group. A DST was run over part of this section but yielded only drilling mud. From 3267.3 m, within the Early Cretaceous, gas levels rose significantly and were associated with fair to poor shows in the Marls. The fluorescence was described as gold in colour with a slow pale yellow cut. From 3444 m, gas and shows increased and were contained in slightly argillaceous, hard limestone. Oil staining was seen and the fluorescence described as dark yellow gold with a pale yellow to very light brown cut. Mandal Formation shale was the first Jurassic age rocks seen. Gas levels were very high through these shales and the shows were described as bituminous with no direct fluorescence and a pale yellow cut. Between 3578 - 3600 m a gross sandstone unit was indicated by the gamma ray log. In roughly the same interval (3593.6 and 3605.8 m) abundant free oil appeared in the mud and abundant bright yellow gold fluorescence and a bright yellow straw cut were observed. This interval tested low rates of oil and gas. Dolomite stringers around 3858.8 and 3907.5 m gave good gas and oil shows with a dull yellow fluorescence and a pale yellow streaming cut.

No conventional cores were cut in this well. Four wire line core slices were cut in the Tor and Hod Formations, each 3 foot long at core points: 2999.2, 2967.8, 2956.6, and 2785 m. All had 100 % recovery. Sidewall cores were not taken. No wire line fluid samples were taken.

The well was permanently abandoned on 3 September 1972 as a well with oil and gas shows.

Testing

Three DST tests were performed, two in the Jurassic and one in the Tor Formation. Small amounts of Oil and gas were recovered from the Jurassic Tests. Only mud was recovered from the Cretaceous Tor Test.

DST 1 from 3570.7 - 3587.5 m in the Mandal Formation recovered 3.8 Sm³ of oil and 278 Sm³ gas. The formation shut in Pressure was 4443 psi and the Formation flowing pressure was 3632 psi after 332 minutes.

DST 2 3600 - 3571 m, flowed 32 Sm³ oil and 2019 Sm³ gas with a Final Shut in Pressure of 4037 psi and a final flowing pressure of 3537 psi after 980 minutes. 80 barrels of acid were used to stimulate the well test.

DST 3 2871-2882 m, flowed only mud despite acidising. The final shut in pressure was 5477 psi and the final flowing pressure was 4455 psi after 491 minutes.



Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
405.38	4114.80

Cuttings available for sampling?	NO
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Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
9100.0	[ft]	DC	OD
9160.0	[ft]	DC	OD
9220.0	[ft]	DC	OD
9280.0	[ft]	DC	OD
9340.0	[ft]	DC	OD
9400.0	[ft]	DC	OD
9460.0	[ft]	DC	OD
9520.0	[ft]	DC	OD
9580.0	[ft]	DC	OD
9640.0	[ft]	DC	OD
9700.0	[ft]	DC	OD
9760.0	[ft]	DC	OD
9820.0	[ft]	DC	OD
9880.0	[ft]	DC	OD
9940.0	[ft]	DC	OD
10000.0	[ft]	DC	OD
10060.0	[ft]	DC	OD
10120.0	[ft]	DC	OD
10180.0	[ft]	DC	OD
10240.0	[ft]	DC	OD
10300.0	[ft]	DC	OD
10360.0	[ft]	DC	OD
10420.0	[ft]	DC	OD
10480.0	[ft]	DC	OD
10540.0	[ft]	DC	OD
10600.0	[ft]	DC	OD

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
103	NORDLAND GP
1596	HORDALAND GP
2725	ROGALAND GP
2725	BALDER FM
2738	SELE FM
2756	LISTA FM
2771	VÅLE FM
2780	SHETLAND GP
2780	TOR FM
2850	HOD FM
3167	BLODØKS FM
3169	HIDRA FM
3192	CROMER KNOLL GP
3209	SOLA FM
3250	ÅSGARD FM
3537	TYNE GP
3537	MANDAL FM
3594	FARSUND FM
3761	HAUGESUND FM

Geochemical information

Document name	Document format	Document size [MB]
117_1	pdf	1.90
117_2	pdf	0.51

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

Document name	Document format	Document size [MB]
117_01 WDSS General Information	pdf	0.42

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





Document name	Document format	Document size [MB]
117 01 2 8 3 Completion Log	pdf	3.28
117 01 2 8 3 Completion report	pdf	67.92

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
117 01 NPD Paper No.32 Geology of the southernmost part of the Norwegian section of the Central Trough Well 2 8 3	pdf	24.44
117 02 NPD Paper No.32 Interpreted Lithology log Well 2 8 3	pdf	60.77
117 03 NPD Paper No.32 Late Cretaceous-early Tertiary Correlation chart Valhall-Hod Fields Profile 2 Well 2 8 3	pdf	0.36
117 04 NPD Paper No.32 Late Jurassic-early Tertiary Correlation chart Profile 3 Well 2 8 3	pdf	0.74

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	3571	3589	0.0
2.0	3600	3571	0.0
3.0	2871	2882	0.0

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0	30.000	25.000		
2.0	28.000	24.000		
3.0				

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0	4	278			
2.0	32	2019			
3.0					





Logs

Log type	Log top depth [m]	Log bottom depth [m]
4ARM HRD	6039	10602
4ARM HRD	10570	12142
4ARM HRD	12138	13500
BHC GR	6039	1059
BHC GR	10570	12132
BHC GR	12138	13490
CBL	2500	12140
CN FDC GR	8500	10602
CN FDC GR	10570	12140
CN FDC GR	12138	13500
DLL	8500	10591
DLL MSFL	12138	13490
DLL MSFL SP	10570	12125
VELOCITY	6039	13490
VSP	1100	11700

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	144.0	36	144.0	0.00	LOT
SURF.COND.	20	382.0	26	396.0	0.00	LOT
INTERM.	13 3/8	1841.0	17 1/2	1849.0	0.00	LOT
INTERM.	9 5/8	3223.0	12 1/4	3230.0	0.00	LOT
LINER	7	3700.0	8 1/2	3700.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1848	1.62			waterbased	
2082	1.64			waterbased	
2481	1.63			waterbased	
3009	1.67			waterbased	
3229	1.68			waterbased	



3544	1.92			waterbased	
3700	1.99			waterbased	
4115	2.01			waterbased	