General information

Wellbore name	2/8-12 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/8-12
Seismic location	ANO 8701-38 & SP 143
Production licence	006
Drilling operator	Amoco Norway Oil Company
Drill permit	595-L
Drilling facility	DYVI STENA
Drilling days	172
Entered date	07.11.1988
Completed date	27.04.1989
Release date	27.04.1991
Publication date	02.03.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	68.7
Total depth (MD) [m RKB]	5300.0
Final vertical depth (TVD) [m RKB]	5143.0
Bottom hole temperature [°C]	179
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	56° 23' 48.8'' N
EW degrees	3° 26' 15.4'' E
NS UTM [m]	6250478.40
EW UTM [m]	527013.72
UTM zone	31
NPDID wellbore	1351

Wellbore history

General

Well 2/8-12 S was drilled on the eastern flank of the Middle and Late Jurassic "Mode" salt feature in a location ca 12 km north of the Valhall Field. The well was planned deviated to avoid the Ekofisk-Emden gas pipeline. The objective of the well was to test the reservoir and possible hydrocarbon potential in the Late and Middle Jurassic sands in the deepest part of the Central Trough, determine the source rock potential and maturation as well as the Jurassic stratigraphy, and determine the Late Cretaceous/Tertiary stratigraphy of the chalk section.

Operations and results

Wildcat well 2/8-12 S was spudded with Stena Equipment semi- submersible installation Dyvi Stena on 7 November 1988 and drilled to TD at a total depth of 5300 m in the Triassic Group. The well was drilled with seawater down to 904 m, with seawater/PAC/PHPA from 904 m to 3360 m, with seawater/Low Lime fro 3360 m to 4024 m, and with freshwater/Hoestadrill mud from 4024 m to TD. Shallow gas was encountered in sands around 930 meters. The well was stabilised with heavy mud, and there was no damage or injuries.

A major normal fault cuts through the chalk section and caused major problems with lost circulation. Later biostratigraphic analyses showed that most of the Hod Formation was faulted out in the well. The lower Cretaceous section was thicker than expected due to a 241 m of unexpected Early Cretaceous limestone/dolomite (Tuxen Formation). The Late Jurassic shales of the Tyne Group was encountered at 4000 m and proved to be 1191 m thick, which also was thicker than expected. It consisted of the Mandal (42 m), Farsund (165 m) and Haugesund (985 m) Formations. The lithology of the group was generally silty claystone/shale with dolomite/limestone stringers. Organic geochemical analyses of cuttings proved very good source rock potential throughout the whole Group, with the better potential found in the Mandal and Farsund Formations. Top of the oil window is at around 3500 m. Some shows were observed in chalk of the Ekofisk and Tor Formations. One core was cut in the Triassic sands from 5226.5 m to 5244.5 m. The well was permanently abandoned 27 April 1989 as a dry hole with oil/gas shows.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
940.00	5300.00

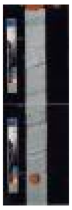
Cuttings available for sampling?	YES

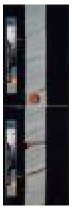
Cores at the Norwegian Offshore Directorate

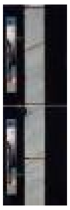
Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	5226.5	5243.6	[m]

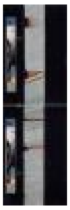
Total core sample length [m]	17.1
Cores available for sampling?	YES

Core photos


5226-5243m


5226-5243m


5226-5243m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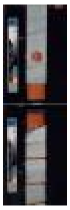
5226-5243m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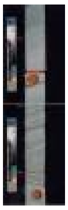
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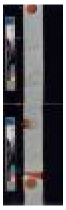
5226-5243m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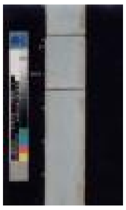
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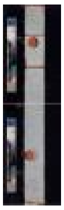
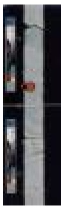
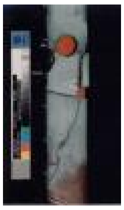

5226-5243m


5226-5243m


5226-5243m


5226-5243m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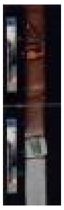
5226-5243m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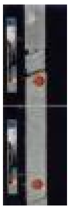
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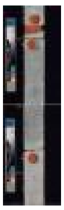
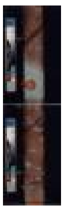
5226-5243m


5226-5243m


5226-5243m


5226-5243m


5226-5243m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5226-5243m


5226-5243m


5226-5243m


5226-5243m


5226-5243m


5226-5243m


5224-5243m


5226-5243m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
5234.0	[m]	DC	TNO
5243.0	[m]	DC	TNO
5267.0	[m]	DC	TNO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
94	NORDLAND GP
1629	HORDALAND GP
2883	ROGALAND GP
2883	BALDER FM
2911	SELE FM
2942	LISTA FM
3021	MAUREEN FM
3046	SHETLAND GP
3046	EKOFISK FM
3118	TOR FM
3235	HIDRA FM
3257	CROMER KNOLL GP
3257	RØDBY FM
3271	SOLA FM
3759	TUXEN FM

4000	TYNE GP
4000	MANDAL FM
4042	FARSUND FM
4207	HAUGESUND FM
5191	VESTLAND GP
5191	BRYNE FM
5225	NO GROUP DEFINED
5225	SKAGERRAK FM

Composite logs

Document name	Document format	Document size [MB]
1351	pdf	0.65

Geochemical information

Document name	Document format	Document size [MB]
1351_1	pdf	0.99

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

Document name	Document format	Document size [MB]
1351_01_WDSS_General_Information	pdf	0.26
1351_02_WDSS_completion_log	pdf	0.24

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

Document name	Document format	Document size [MB]
1351_01_2_8_12_S_Completion_report	pdf	20.59
1351_02_2_8_12_S_Completion_log	pdf	3.67
1351_2_8_12_COMPLETION_REPORT	.pdf	20.59
1351_2_8_12_S_COMPLETION_LOG	.pdf	3.67

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BGT GR	2283	3359
BHC GR CAL	3362	3789
CST GR	2878	3358
CST GR	3397	4020
CST GR	4035	5004
CST GR	4113	4980
CST GR	5010	5302
DIL BHC GR	4765	5004
DIL BHC GR AMS	4028	4765
DIL BHC GR SP	3789	4022
DIL BNC GR	5005	5304
DIL GR SP	3362	3789
FDC CNL GR	5005	5302
FMS GR	3000	3359
GCT GYRO SURVEY	100	4009
ISF BHC GR MSFL	2286	3357
LDL CNL GR CAL	2286	3358
LDL CNL GR CAL	3362	4023
MWD - GR RES DIR	180	2297
MWD - GR RES DIR	3268	5000
RFT GR	3067	3309
RFT GR	3984	3988
SHDT GR	4028	4600
SHDT GR	4028	4600
SHDT GR	4550	5004
SHDT GR	5005	5300
ULSEL	4024	5003
VSP	600	5296

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	178.0	36	185.0	0.00	LOT
INTERM.	20	904.0	26	935.0	1.81	LOT
INTERM.	13 3/8	2286.0	18 1/2	2298.0	1.96	LOT
INTERM.	11 3/4	3360.0	12 1/4	3360.0	1.98	LOT

INTERM.	9 5/8	4024.0	10 5/8	4025.0	2.21	LOT
OPEN HOLE		5300.0	8 1/2	5300.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
110	1.03			WATER BASED	26.04.1989
110	1.03			WATER BASED	27.04.1989
110	1.03			WATER BASED	27.04.1989
185	1.06	18.0	35.9	WATER BASED	11.11.1988
185	1.06	13.0	25.4	WATER BASED	11.11.1988
339	1.05	14.0	33.1	WATER BASED	15.11.1988
835	1.06	18.0	45.5	WATER BASED	15.11.1988
935	1.38	10.0	14.4	WATER BASED	15.11.1988
935	1.38	18.0	8.1	WATER BASED	16.11.1988
935	1.38	12.0	6.7	WATER BASED	17.11.1988
935	1.38	17.0	6.7	WATER BASED	17.11.1988
938	1.38	18.0	6.7	WATER BASED	21.11.1988
1155	1.38	20.0	7.7	WATER BASED	22.11.1988
1373	1.50	30.0	8.6	WATER BASED	22.11.1988
1804	1.56	30.0	7.2	WATER BASED	22.11.1988
2064	1.60	31.0	10.5	WATER BASED	22.11.1988
2296	1.61	25.0	7.2	WATER BASED	29.11.1988
2298	1.62	26.0	9.6	WATER BASED	29.11.1988
2298	1.62	22.0	9.1	WATER BASED	29.11.1988
2298	1.61	30.0	8.6	WATER BASED	29.11.1988
2681	1.62	36.0	9.1	WATER BASED	29.11.1988
2748	1.62	21.0	7.7	WATER BASED	29.11.1988
2756	1.62	20.0	7.7	WATER BASED	01.12.1988
2943	1.62	27.0	8.1	WATER BASED	01.12.1988
2992	1.62	35.0	9.6	WATER BASED	01.12.1988
3025	1.62	30.0	8.6	WATER BASED	02.12.1988
3191	1.62	28.0	7.7	WATER BASED	06.12.1988
3191	1.62	28.0	7.2	WATER BASED	06.12.1988
3191	1.51	16.0	4.8	WATER BASED	06.12.1988
3191	1.51	16.0	5.3	WATER BASED	07.12.1988
3191	1.51	16.0	4.8	WATER BASED	07.12.1988
3191	1.51	18.0	4.3	WATER BASED	12.12.1988

3191	1.56	26.0	7.2	WATER BASED	13.12.1988
3191	1.53	22.0	4.8	WATER BASED	13.12.1988
3191	1.57	36.0	8.6	WATER BASED	13.12.1988
3191	1.57	35.0	8.6	WATER BASED	14.12.1988
3191	1.56	32.0	5.8	WATER BASED	14.12.1988
3191	1.56	34.0	9.1	WATER BASED	15.12.1988
3191	1.56	34.0	9.1	WATER BASED	16.12.1988
3191	1.58	35.0	9.1	WATER BASED	19.12.1988
3191	1.51	21.0	4.8	WATER BASED	12.12.1988
3197	1.58	30.0	6.7	WATER BASED	19.12.1988
3197	1.58	22.0	5.7	WATER BASED	19.12.1988
3257	1.59	25.0	5.7	WATER BASED	20.12.1988
3268	1.61	21.0	5.3	WATER BASED	21.12.1988
3268	1.61	23.0	5.7	WATER BASED	22.12.1988
3312	1.59	29.0	6.7	WATER BASED	27.12.1988
3344	1.59	29.0	6.2	WATER BASED	27.12.1988
3344	1.59	30.0	11.5	WATER BASED	28.12.1988
3360	1.59	26.0	4.8	WATER BASED	28.12.1988
3360	1.59	27.0	4.8	WATER BASED	29.12.1988
3360	1.59	28.0	5.3	WATER BASED	30.12.1988
3360	1.59	30.0	6.7	WATER BASED	03.01.1989
3360	1.59	33.0	7.2	WATER BASED	03.01.1989
3360	1.59	30.0	7.2	WATER BASED	04.01.1989
3360	1.59	34.0	8.1	WATER BASED	05.01.1989
3360	1.59	33.0	6.7	WATER BASED	06.01.1989
3360	1.59	27.0	5.3	WATER BASED	10.01.1989
3360	1.59	34.0	8.2	WATER BASED	10.01.1989
3360	1.59	30.0	5.7	WATER BASED	10.01.1989
3360	1.59	31.0	5.3	WATER BASED	10.01.1989
3360	1.59	29.0	5.3	WATER BASED	11.01.1989
3360	1.59	28.0	4.8	WATER BASED	12.01.1989
3360	1.59	27.0	5.3	WATER BASED	13.01.1989
3360	1.59	27.0	5.3	WATER BASED	17.01.1989
3360	1.70	30.0	5.3	WATER BASED	24.01.1989
3360	1.59	25.0	5.7	WATER BASED	28.12.1988
3360	1.59	31.0	6.7	WATER BASED	03.01.1989
3364	1.68	30.0	5.3	WATER BASED	18.01.1989
3367	1.71	39.0	8.1	WATER BASED	25.01.1989
3371	1.70	30.0	5.7	WATER BASED	19.01.1989
3462	1.70	40.0	6.7	WATER BASED	24.01.1989

3462	1.70	40.0	7.2	WATER BASED	24.01.1989
3511	1.70	39.0	6.5	WATER BASED	24.01.1989
3553	1.70	38.0	7.7	WATER BASED	24.01.1989
3582	1.86	40.0	8.1	WATER BASED	26.01.1989
3584	1.86	40.0	8.1	WATER BASED	30.01.1989
3611	1.86	33.0	5.7	WATER BASED	30.01.1989
3645	1.86	32.0	5.7	WATER BASED	30.01.1989
3645	1.86	32.0	6.2	WATER BASED	30.01.1989
3690	1.86	32.0	4.8	WATER BASED	31.01.1989
3700	1.86	32.0	5.3	WATER BASED	01.02.1989
3752	1.86	28.0	4.8	WATER BASED	02.02.1989
3788	1.92	29.0	5.3	WATER BASED	03.02.1989
3788	1.95	28.0	5.3	WATER BASED	06.02.1989
3835	1.92	30.0	1.4	WATER BASED	06.02.1989
3893	1.92	28.0	5.8	WATER BASED	08.02.1989
3962	1.92	27.0	5.8	WATER BASED	08.02.1989
4019	1.92	24.0	6.2	WATER BASED	09.02.1989
4024	1.92	24.0	3.5	WATER BASED	01.03.1989
4025	1.89	22.0	4.3	WATER BASED	13.02.1989
4025	1.92	25.0	4.8	WATER BASED	28.02.1989
4025	1.92	25.0	5.3	WATER BASED	10.02.1989
4025	1.92	20.0	3.8	WATER BASED	13.02.1989
4025	1.89	23.0	4.8	WATER BASED	13.02.1989
4025	1.92	23.0	4.8	WATER BASED	14.02.1989
4025	1.92	24.0	4.8	WATER BASED	15.02.1989
4025	1.92	25.0	4.3	WATER BASED	17.02.1989
4025	1.92	24.0	5.8	WATER BASED	17.02.1989
4025	1.92	24.0	5.8	WATER BASED	21.02.1989
4025	1.92	26.0	3.8	WATER BASED	21.02.1989
4025	1.92	26.0	4.8	WATER BASED	22.02.1989
4025	1.92	26.0	4.8	WATER BASED	23.02.1989
4025	1.92	25.0	4.3	WATER BASED	28.02.1989
4025	1.92	25.0	4.5	WATER BASED	28.02.1989
4025	1.92	23.0	4.3	WATER BASED	28.02.1989
4027	1.92	27.0	2.9	WATER BASED	02.03.1989
4037	1.92	28.0	2.9	WATER BASED	03.03.1989
4113	1.92	31.0	4.8	WATER BASED	07.03.1989
4176	1.92	34.0	4.8	WATER BASED	07.03.1989
4278	1.92	37.0	5.8	WATER BASED	07.03.1989
4347	1.98	35.0	4.8	WATER BASED	07.03.1989

4438	2.00	36.0	4.8	WATER BASED	08.03.1989
4547	2.06	38.0	5.3	WATER BASED	10.03.1989
4610	2.09	39.0	5.8	WATER BASED	13.03.1989
4706	2.09	39.0	6.7	WATER BASED	13.03.1989
4725	2.09	40.0	6.2	WATER BASED	13.03.1989
4744	2.09	33.0	3.8	WATER BASED	20.03.1989
4744	2.13	40.0	6.2	WATER BASED	14.03.1989
4744	2.12	38.0	5.8	WATER BASED	15.03.1989
4744	2.13	38.0	5.3	WATER BASED	16.03.1989
4744	2.14	35.0	3.8	WATER BASED	17.03.1989
4744	2.11	36.0	3.8	WATER BASED	20.03.1989
4763	2.09	40.0	5.8	WATER BASED	20.03.1989
4763	2.09	37.0	4.3	WATER BASED	22.03.1989
4763	2.09	33.0	3.1	WATER BASED	28.03.1989
4763	2.10	36.0	4.3	WATER BASED	21.03.1989
4763	2.09	37.0	4.3	WATER BASED	28.03.1989
4778	2.09	32.0	3.1	WATER BASED	28.03.1989
4847	2.09	35.0	4.3	WATER BASED	28.03.1989
4875	2.09	34.0	3.4	WATER BASED	28.03.1989
4942	2.09	37.0	3.8	WATER BASED	29.03.1989
4947	2.09	37.0	3.8	WATER BASED	30.03.1989
5000	2.09	30.0	3.8	WATER BASED	04.04.1989
5000	2.09	30.0	3.9	WATER BASED	04.04.1989
5000	2.09	30.0	3.8	WATER BASED	31.03.1989
5000	2.09	26.0	3.8	WATER BASED	10.04.1989
5000	2.09	25.0	2.4	WATER BASED	10.04.1989
5000	2.09	24.0	2.4	WATER BASED	10.04.1989
5000	2.09	24.0	2.4	WATER BASED	06.04.1989
5000	2.09	30.0	2.9	WATER BASED	05.04.1989
5000	2.09	23.0	2.9	WATER BASED	05.04.1989
5000	2.09	30.0	3.8	WATER BASED	04.04.1989
5000	2.09	25.0	3.4	WATER BASED	07.04.1989
5000	2.09	25.0	2.4	WATER BASED	12.04.1989
5007	2.09	24.0	2.4	WATER BASED	12.04.1989
5030	2.09	26.0	1.9	WATER BASED	13.04.1989
5095	2.09	26.0	2.4	WATER BASED	14.04.1989
5226	2.09	26.0	3.4	WATER BASED	17.04.1989
5226	2.09	26.0	3.4	WATER BASED	17.04.1989
5226	2.09	26.0	3.4	WATER BASED	17.04.1989
5228	2.09	26.0	2.4	WATER BASED	17.04.1989

5228	2.09	26.0	2.4	WATER BASED	17.04.1989
5228	2.09	26.0	2.4	WATER BASED	17.04.1989
5244	2.09	24.0	1.9	WATER BASED	17.04.1989
5244	2.09	24.0	1.9	WATER BASED	17.04.1989
5244	2.09	24.0	1.9	WATER BASED	17.04.1989
5285	2.09	24.0	1.4	WATER BASED	18.04.1989
5300	2.09	24.0	1.4	WATER BASED	19.04.1989
5300	2.09	22.0	0.9	WATER BASED	20.04.1989
5300	2.09	21.0	1.4	WATER BASED	21.04.1989
5300	2.09	24.0	1.4	WATER BASED	26.04.1989
5300	2.09	26.0	1.9	WATER BASED	26.04.1989
5300	2.09	25.0	1.4	WATER BASED	26.04.1989

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.

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