General information

Wellbore name	2/8-14
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/8-14
Seismic location	ANO83- 14 & SP. 270
Production licence	006
Drilling operator	Amoco Norway Oil Company
Drill permit	647-L
Drilling facility	WEST VANGUARD
Drilling days	162
Entered date	14.08.1990
Completed date	22.01.1991
Release date	22.01.1993
Publication date	16.10.2012
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	67.0
Total depth (MD) [m RKB]	4392.0
Bottom hole temperature [°C]	152
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	FARSUND FM
Geodetic datum	ED50
NS degrees	56° 15' 48.93'' N
EW degrees	3° 21' 23.11'' E
NS UTM [m]	6235612.57
EW UTM [m]	522078.60
UTM zone	31
NPDID wellbore	1552

Wellbore history

General

Well 2/8-14 was drilled on a complexly faulted anticline situated below the western flank of the Valhall Field (designated as the West Valhall prospect) in the southern North Sea. The primary objective was to test a late Jurassic "wedge" sandstone. The secondary objective was Late Jurassic, Volgian age, sandstones. The well would also determine reservoir quality of the Shetland Group chalk sequences. The planned total depth of the well was 5622 m.

Operations and results

Wildcat well 2/8-14 was spudded with the semi-submersible installation West Vanguard on 14 August 1990. No shallow gas zones were penetrated in the well. The well penetrated high pore pressures at 3176 m in the Lower Cretaceous that required plugging back the well and setting an 11 3/4" liner. High pore pressures were again penetrated at 4274 m in the Late Jurassic. Due to well control considerations, the hole was plugged back and sidetracked below approximately 3797 m before setting a 7" liner at 4202 m. Further down high pore pressures again forced a premature end to the well with TD at 4397 m in the Late Jurassic (Late Kimmeridgian) Farsund Formation. The well was drilled with seawater and pre-hydrated bentonite down to 952 m, with KCl/PHPA/Polydrill mud from 952 m to 2560 m, with AncoTemp Polydrill/Ancoresin PHPA from 2560 m to 3855 m, and with AncoTemp Polydrill/Hostadrill PHPA mud from 3855 m to TD.

Top Shetland Group Chalk (Tor Formation) was encountered at 2614 m with a 73% mud gas peak and good oil shows. The Tor Formation was 3 m thick and the underlying Hod Formation was 225 m thick. The pressures in the Tor and in the Hod chalk formations were depleted due to production from the Valhall Field as expected. Top Tyne Group, Mandal Formation came in at 3188 m. No significant Volgian age sandstones were penetrated in the well. The primary objective Late Jurassic "Wedge Sandstones" were not penetrated. The well had oil shows of variable quality in all types of lithology virtually all through from 1510 m to TD, except for an interval from 2778 m in the lower Hod Formation to 2929 m in the Sola Formation.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 22 January 1991 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]
960.00	4392.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
89	NORDLAND GP
1522	HORDALAND GP
2567	ROGALAND GP
2567	BALDER FM
2576	SELE FM
2592	LISTA FM
2614	SHETLAND GP
2614	TOR FM
2617	HOD FM
2842	BLODØKS FM
2847	HIDRA FM
2874	CROMER KNOLL GP
2874	RØDBY FM
2901	SOLA FM
2936	TUXEN FM
2984	ÅSGARD FM
3188	TYNE GP
3189	MANDAL FM
3257	FARSUND FM

Geochemical information

Document name	Document format	Document size [MB]
1552_GCH_1	pdf	0.12
1552_GCH_2	pdf	20.45

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

Document name	Document format	Document size [MB]
1552_01_WDSS_General_Information	pdf	0.63
1552_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]
1552_2_8_14_Completion_log	pdf	2.32
1552_2_8_14_Completion_report	pdf	16.99
1552_2_8_14_Drilling_diary	pdf	25.14
1552_2_8_14_Drilling_report	pdf	35.46
1552_2_8_14_Wellsite_samples - Kopi	pdf	39.66
1552_2_8_14_Wellsite_samples	pdf	39.66

Logs

Log type	Log top depth [m]	Log bottom depth [m]
4ARM CAL	2549	3067
4ARM DIP GR	2549	3077
4ARM DIP GR	3064	3248
ACSIG	2550	2910
ACSIG	3064	3248
CBL VDL GR	405	2549
CBL VDL GR	2414	3064
CBL VDL GR	3107	4206
CBL VDL GR	3234	4500
COREGUN GR	3102	3245
COREGUN GR	3300	4202
COREGUN GR	3496	4206
COREGUN GR	4212	3295
DIFL AC GR CAL	3064	3248
DIFL AC SP GR	4130	4396
DIFL AC ZDL CN GR	2549	3075
DIFL AC ZDL CN SP GR CAL	3151	4207
HP FMMT GR	4211	4282
HP FMT GR	2615	2690
HP FMT GR	3101	3239
MWD - DPR EMW RES GR DIR	595	687
MWD - RGD SN RES GR DIR	193	595
MWD - RGD SN RES GR DIR	687	4274
MWD - RGD SN RES GR DIR	3797	4202
SWING ARM DIP GR	3234	4208
SWING ARM DIP GR	4206	4397
VELOCITY	2614	3780

VELOCITY	4150	4390
VSP	2580	4190
ZDL CN GR CAL	3064	3248
ZDL CN GR CAL	4153	4396

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	185.0	36	193.0	0.00	LOT
INTERM.	20	945.0	26	952.0	1.74	LOT
INTERM.	13 3/8	2549.0	17 1/2	2560.0	1.90	LOT
LINER	11 3/4	3062.0	15	3068.0	2.05	LOT
INTERM.	9 5/8	3234.0	10 5/8	3248.0	2.07	LOT
LINER	7	4202.0	8 1/2	4274.0	2.23	LOT
OPEN HOLE		4392.0	5 7/8	4392.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
190	1.09	8.0		WATER BASED	
280	1.09	42.0		WATER BASED	
330	1.41			WATER BASED	
545	1.04	45.0		WATER BASED	
687	1.06	40.0		WATER BASED	
959	1.20	10.0		WATER BASED	
1157	1.22	13.0		WATER BASED	
1288	1.70	16.0		WATER BASED	
1410	1.49	21.0		WATER BASED	
1639	1.68	24.0		WATER BASED	
1919	1.70	19.0		WATER BASED	
2035	1.70	18.0		WATER BASED	
2340	1.70	18.0		WATER BASED	
2469	1.93	10.0		WATER BASED	
2560	1.73	15.0		WATER BASED	
2759	1.67	14.0		WATER BASED	
2898	1.70	16.0		WATER BASED	
2984	1.73	16.0		WATER BASED	

3044	1.73	19.0		WATER BASED	
3170	2.08	21.0		WATER BASED	
3176	1.86	20.0		WATER BASED	
3181	1.91	18.0		WATER BASED	
3239	1.93	25.0		WATER BASED	
3248	1.93	24.0		WATER BASED	
3263	1.93	21.0		WATER BASED	
3324	1.92	23.0		WATER BASED	
3374	1.92	24.0		WATER BASED	
3403	1.96	21.0		WATER BASED	
3468	1.92	21.0		WATER BASED	
3554	1.96	24.0		WATER BASED	
3604	1.96	24.0		WATER BASED	
3650	1.96	25.0		WATER BASED	
3721	1.96	24.0		WATER BASED	
3729	2.02	22.0		WATER BASED	
3784	2.02	21.0		WATER BASED	
3810	1.96	26.0		WATER BASED	
3815	2.02	24.0		WATER BASED	
3851	2.02	26.0		WATER BASED	
3875	1.98	24.0		WATER BASED	
3882	2.02	26.0		WATER BASED	
3905	1.98	25.0		WATER BASED	
3906	2.02	26.0		WATER BASED	
3906	2.02	26.0		WATER BASED	
3911	2.02	25.0		WATER BASED	
3987	1.98	24.0		WATER BASED	
4026	2.02	25.0		WATER BASED	
4084	1.98	27.0		WATER BASED	
4134	2.02	24.0		WATER BASED	
4166	1.98	26.0		WATER BASED	
4180	2.18	21.0		WATER BASED	
4188	2.02	19.0		WATER BASED	
4202	2.02	20.0		WATER BASED	
4205	2.02	20.0		WATER BASED	
4249	2.08	20.0		WATER BASED	
4258	1.98	24.0		WATER BASED	
4270	2.00	22.0		WATER BASED	
4274	2.02	21.0		WATER BASED	
4314	2.00	20.0		WATER BASED	

4325	2.12	21.0		WATER BASED	
4326	2.12	22.0		WATER BASED	
4339	2.16	22.0		WATER BASED	
4350	2.18	16.0		WATER BASED	
4392	2.16	20.0		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]
1552_Formation_pressure_(Formasjonstrykk)	pdf	0.22