

**General information**

Wellbore name	8/10-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	8/10-1
Seismic location	PG 030340 & SP30
Production licence	017
Drilling operator	Phillips Petroleum Company Norway
Drill permit	27-L
Drilling facility	OCEAN VIKING
Drilling days	33
Entered date	30.05.1969
Completed date	01.07.1969
Release date	01.07.1971
Publication date	24.09.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	27.0
Water depth [m]	66.0
Total depth (MD) [m RKB]	3089.0
Maximum inclination [°]	13.5
Bottom hole temperature [°C]	101
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	57° 8' 1.04" N
EW degrees	3° 3' 55.09" E
NS UTM [m]	6332404.31
EW UTM [m]	503952.97
UTM zone	31
NPDID wellbore	166

**Wellbore history****General**

Exploration well 8/10-1 was drilled on a gentle salt dome structure about 12 km west of the Ula Field on the Sørvestlandet High. The objectives were to test Tertiary and Mesozoic horizons. More specifically, the well should test the Tertiary Miocene section equivalent to the gas-bearing sand section in well 2/3-1 (35 miles southeast), Eocene sands which had minor gas shows in well 7/8-1 (25 miles northwest) and with oil shows in the Shell 1/3-1, Paleocene sands productive in the Cod Field (25 miles east), fractured Upper Cretaceous limestone with condensate and gas shows in well 1/3-1 (20 miles southwest), and Jurassic and Triassic sands that were very porous and permeable in well 7/8-1. The latter also had small shows in wells 7/8-1 and 9/4-1 (50 miles northwest).

Operations and results

The well was spudded with the semi-submersible installation Ocean Viking on 30 May 1969 and drilled to TD at 3099 m in the Late Permian Zechstein Group. The hole deviation increased considerably from about 2225 m to TD, with a maximum of 13.5 degrees at 2774 m and about 10 degrees at the last survey point at 3018 m. Assuming an average deviation of 9 degrees from 2200 m to TD this results in 3089 m TVD RKB at TD. The pipe stuck at 3042 m. It was worked free after spotting diesel and Mudban. Otherwise no significant problems were encountered during drilling operations. The well was drilled with seawater down to 655 m, with a sea water/gel mud system from 655 m to 2134 m, and with a lignosulphonate type mud from 2134 m to TD. Below 655 m the well was drilled with 1 % to 8 % of diesel oil in the mud, with the higher concentrations towards TD.

None of the sedimentary sequences penetrated by the well contained hydrocarbons. A more or less continuous Triassic section consisted of mainly shale /claystone with traces of sand. The Late Jurassic was represented by the Sandnes Formation sandstone and the Kimmeridge Clay (Flekkefjord Formation). An unconformity marks the boundary to the Lower Cretaceous shale/claystone sequence. Late Cretaceous sedimentation of carbonates took place in an open marine environment. The Våle Formation is represented in the well and shows the onset of erosion and clastic sedimentation at the beginning of the Tertiary. Volcanic activity is seen at the Paleocene Eocene boundary (Balder Formation). Sedimentation of mostly fine-grained clastic sediments is characteristic for the Tertiary period. This was a period of continuous subsidence in the North Sea. No core or sidewall core was taken. No fluid sample was taken.

The well was permanently abandoned as a dry hole on 1 July 1969.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
640.08	3090.67

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



Sample depth	Depth unit	Sample type	Laboratory
3240.0	[ft]	DC	PHILLIP?
9160.0	[ft]	DC	(ALLE)
9200.0	[ft]	DC	
9260.0	[ft]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
93	NORDLAND GP
1220	HORDALAND GP
2181	ROGALAND GP
2181	BALDER FM
2195	SELE FM
2270	LISTA FM
2385	VÅLE FM
2397	SHETLAND GP
2397	EKOFISK FM
2441	TOR FM
2560	HOD FM
2570	HIDRA FM
2580	CROMER KNOLL GP
2580	RØDBY FM
2610	SOLA FM
2679	TUXEN FM
2700	ÅSGARD FM
2775	BOKNFJORD GP
2775	FLEKKEFJORD FM
2793	VESTLAND GP
2793	SANDNES FM
2833	NO GROUP DEFINED
2833	SKAGERRAK FM
2866	SMITH BANK FM
3081	ZECHSTEIN GP

Composite logs





Document name	Document format	Document size [MB]
166	pdf	0.24

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

Document name	Document format	Document size [MB]
166 01 WDSS General Information	pdf	0.18

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

Document name	Document format	Document size [MB]
166 1 Completion Report and Completion Log	pdf	3.32

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
166 01 NPD Paper No.22 Lithology Well 8 10 1	pdf	10.54
166 02 NPD Paper No.22 Interpreted Lithology log Well 8 10 1	pdf	48.65

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CDM	2125	3042
DIR	2125	3017
IEL	2125	3090
SONIC CALIPER	605	2131
SONIC CALIPER	2125	3095
SONIC GR CALIPER	93	2125

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	20	156.0	26	157.0	0.00	LOT
SURF.COND.	13 3/8	606.0	17 1/2	610.0	0.00	LOT
INTERM.	9 5/8	2125.0	12 1/4	2126.0	0.00	LOT
OPEN HOLE		3099.0	8 1/2	3099.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
607	1.02			seawater	
2133	1.55	53.0	12.0	seawater	
2591	1.49	47.0	12.0	seawater	
2713	1.55	55.0	16.0	seawater	
3042	1.66	58.0	19.0	seawater	
3097	1.72	55.0	15.0	seawater	