

**General information**

Wellbore name	2/6-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/6-1
Seismic location	LINE 686201 SP. 30.
Production licence	008
Drilling operator	Elf Petroleum Norge AS
Drill permit	21-L
Drilling facility	OCEAN VIKING
Drilling days	40
Entered date	21.04.1969
Completed date	30.05.1969
Release date	30.05.1971
Publication date	09.03.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	29.0
Water depth [m]	69.0
Total depth (MD) [m RKB]	3336.0
Maximum inclination [°]	2.5
Bottom hole temperature [°C]	95
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	56° 35' 52" N
EW degrees	3° 54' 55" E
NS UTM [m]	6273128.34
EW UTM [m]	556201.47
UTM zone	31
NPDID wellbore	160



Wellbore history

General

Well 2/6-1 is located on the north eastern slope of the Mandal High between the Søgne Basin and the Central Graben in the North Sea. It was drilled on a salt induced anticlinal structure. The objective of the well was to investigate the sedimentary section down to the Permian salt, and particularly to test the hydrocarbon potential of the Tertiary and Mesozoic sands.

Operations and results

Wildcat well 2/6-1 was spudded with the semi-submersible installation Ocean Viking on 21 April 1969 and drilled to TD at 3336 m in salt belonging to the Late Permian Zechstein Group. Down to 615 m the well was drilled with sea water as drilling fluid, and the returns were to the sea floor. From 615 m to TD a sea water/LFC type mud was used. The only significant drilling problem occurred at a depth of 3220 m in the top of the Mesozoic sands when the well kicked 6.35 m³ of water associated with a gas show. The flow rate was 20 m³/hr and the pressure was estimated to 480 kg/cm². The kick was killed with a 1.65 g/cm³ mud.

Forty meter of Middle and Late Jurassic sands revealed good reservoir properties, but contained no hydrocarbons. Average reservoir properties in these sands were 20% porosity and 140 mD permeability. The Tertiary sediments contained very little sand. Shows were described as follows: in the Paleocene siltstones and shales, a small chloroform cut was obtained on sidewall samples and in the Mesozoic sands, traces of bitumen occur and a chloroform cut was obtained. One conventional core of Jurassic sandstone was cut at 3223 to 3235 m. No wire line fluid samples were taken.

The well was permanently abandoned on 30 May 1969 as a dry well.

Testing

No drill stem test was performed.

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3223.9	3232.5	[m]

Total core sample length [m]	8.6
Cores available for sampling?	YES

Core photos





3223-3227m 3227-3231m 3231-3233m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
98	NORDLAND GP
1400	HORDALAND GP
2531	ROGALAND GP
2531	BALDER FM
2546	SELE FM
2579	LISTA FM
2627	VÅLE FM
2644	SHETLAND GP
2644	EKOFISK FM
2719	TOR FM
2950	HOD FM
3056	CROMER KNOLL GP
3056	RØDBY FM
3102	TYNE GP
3102	MANDAL FM
3217	VESTLAND GP
3217	ULA FM
3233	BRYNE FM
3256	NO GROUP DEFINED
3256	SMITH BANK FM
3302	ZECHSTEIN GP

Composite logs

Document name	Document format	Document size [MB]
160	pdf	0.42

Geochemical information





Document name	Document format	Document size [MB]
160_1	pdf	0.47

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

Document name	Document format	Document size [MB]
160_01_WDSS_General_Information	pdf	0.19

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

Document name	Document format	Document size [MB]
160_01_2_6_1_Completion_Report	pdf	3.93
160_02_2_6_1_Completion_log	pdf	1.81

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
160_01_NPD_Paper_No.19_Lithology_Well_2_6_1	pdf	11.08
160_02_NPD_Paper_No.19_Interpreted_Lithology_log_Well_2_6_1	pdf	49.98

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL	150	547
CDM	592	3313
GR	98	592
IES	592	3334
SL BHC GR	592	3334
TEMP	50	2070

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	125.0	36	127.0	0.00	LOT
SURF.COND.	13 3/8	587.0	17 1/2	600.0	0.00	LOT
INTERM.	9 5/8	2100.0	12 1/4	2107.0	0.00	LOT
OPEN HOLE		3336.0	8 1/2	3336.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1238	1.38			waterbased	
2107	1.55			waterbased	
3091	1.55			waterbased	
3336	1.63			waterbased	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
3232.00	[m]
3225.00	[m]
3228.00	[m]
3224.00	[m]
3232.00	[m]
2350.00	[m]
2580.00	[m]