

**General information**

Wellbore name	11/10-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	11/10-1
Seismic location	LINE 610 SP. 2050.
Production licence	021
Drilling operator	Syracuse Oils Norge A/S
Drill permit	31-L
Drilling facility	OCEAN VIKING
Drilling days	18
Entered date	02.08.1969
Completed date	19.08.1969
Release date	19.08.1971
Publication date	01.12.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	27.0
Water depth [m]	58.0
Total depth (MD) [m RKB]	2430.0
Final vertical depth (TVD) [m RKB]	2430.0
Bottom hole temperature [°C]	68
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	57° 0' 46" N
EW degrees	6° 10' 4.7" E
NS UTM [m]	6322515.78
EW UTM [m]	328039.30
UTM zone	32
NPDID wellbore	170



Wellbore history

General

Wildcat well 11/10-1 was drilled in the eastern part of the Danish Norwegian Basin close to the borderline between the Norwegian and the Danish sectors. The well is situated close to the Krepes fault zone on the western flank of the Horns Graben. The main objectives of the 11/10-1 well were to test the hydrocarbon potential of the Tertiary and the Mesozoic formations. Well 11/10-1 is the first well in quadrant 11 and one of the few wells drilled in the southeastern part of the Norwegian continental shelf so long.

Operations and results

Wildcat well 11/10-1 was spudded with the semi-submersible rig "Ocean Viking" on 2 August 1969 and completed 19 August the same year. The well was drilled at 63 m water depth and bottomed at a total depth of 2430 m in a Triassic sand section without having encountered hydrocarbons in any of the targets.

Three casing strings were set in the well. Sea water was used for the initial drilling down to 253 m. From this depth down to 1023 m a sea water gel mud was used and from 1023 down to TD a sea water Q-Broxin mud system was the drilling fluid. No significant drilling problems occurred during the drilling of this well.

No samples are available from the sea floor down to 305 m. From 305 to 430 m the sampled sequence consists of medium to coarse grained, subangular to subrounded, glauconitic sand and sandstone with scattered rock fragments. The sand is generally unconsolidated and mostly clear quartz and is relatively well sorted. Carbonaceous material, plant remains and shell fragments occur throughout. Dolomitic limestone are also present, increasing towards the bottom of the unit where the dolomite forms the cement of the sand. The underlying shales are dated Late Oligocene, the age of the sandy section is questionable as the upper 300m of the well has not been sampled.

No sandstones are developed in the Rogaland Group which is much reduced in this well. The Upper Cretaceous chalk formations penetrated below 1048 m are approximately 400 m thick. 200 m of marls and shales containing limestone stringers constitute the Cromer Knoll Group below 1493m. The Upper Jurassic section is 200 m thick and consists of mainly shale with only stringers of sandstone. The Lower and Middle Jurassic section is missing in this well. The interval from 1860 to 1900 is considered to belong to the Triassic Gassum formation. At the top of this sequence there is a bed of light grey lime mudstone. Most of the interval, however, consists of loose, clear quartz sand, coarse to very coarse and a fine grained white to light grey sandstone with calcareous cement. From 1900 to 2430 m (TD) interbedded reddish and brownish sandstones and shales of the Skagerrak Formation are present. Visual porosity is good throughout this unit. No shows were observed when drilling through almost 600 m of Triassic section.

Neither fluid samples nor pressure point were taken in this well.

No cores were taken in this well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate



Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
304.80	2429.87

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

Sample depth	Depth unit	Sample type	Laboratory
1200.0	[ft]	DC	OD
1300.0	[ft]	DC	OD
1300.0	[ft]	DC	OD
1350.0	[ft]	DC	OD
1400.0	[ft]	DC	OD
1500.0	[ft]	DC	OD
1550.0	[ft]	DC	OD
1550.0	[ft]	DC	OD
1600.0	[ft]	DC	OD
1650.0	[ft]	DC	OD
1700.0	[ft]	DC	OD
1750.0	[ft]	DC	OD
1800.0	[ft]	DC	OD
1850.0	[ft]	DC	OD
1900.0	[ft]	DC	OD
2000.0	[ft]	DC	OD
2050.0	[ft]	DC	OD
2050.0	[ft]	DC	OD
2100.0	[ft]	DC	OD
2200.0	[ft]	DC	OD
2300.0	[ft]	DC	OD
2400.0	[ft]	DC	OD
2500.0	[ft]	DC	OD
2600.0	[ft]	DC	OD
2600.0	[ft]	DC	OD
2700.0	[ft]	DC	OD
2800.0	[ft]	DC	OD
2900.0	[ft]	DC	OD
3000.0	[ft]	DC	OD
3100.0	[ft]	DC	OD
3200.0	[ft]	DC	OD
4840.0	[ft]	DC	OD



5000.0 [ft]	DC	OD
5180.0 [ft]	DC	OD
5360.0 [ft]	DC	OD
5540.0 [ft]	DC	GEUS
5600.0 [ft]	DC	GEUS
5620.0 [ft]	DC	GEUS
5620.0 [ft]	DC	OD
5660.0 [ft]	DC	GEUS
5700.0 [ft]	DC	GEUS
5760.0 [ft]	DC	GEUS
5780.0 [ft]	DC	GEUS
5820.0 [ft]	DC	GEUS
5860.0 [ft]	DC	GEUS
5860.0 [ft]	DC	OD
5920.0 [ft]	DC	GEUS
5940.0 [ft]	DC	GEUS
5980.0 [ft]	DC	GEUS
6000.0 [ft]	DC	GEUS
6030.0 [ft]	DC	GEUS
6030.0 [ft]	DC	OD
6050.0 [ft]	DC	GEUS
6090.0 [ft]	DC	GEUS
6120.0 [ft]	DC	GEUS
6140.0 [ft]	DC	GEUS
6180.0 [ft]	DC	GEUS
6210.0 [ft]	DC	GEUS
6230.0 [ft]	DC	GEUS
6230.0 [ft]	DC	OD
6270.0 [ft]	DC	GEUS
6300.0 [ft]	DC	GEUS
6330.0 [ft]	DC	GEUS
6330.0 [ft]	DC	OD
6360.0 [ft]	DC	GEUS
6400.0 [ft]	DC	GEUS
6420.0 [ft]	DC	GEUS
6420.0 [ft]	DC	GEUS
6460.0 [ft]	DC	GEUS
6480.0 [ft]	DC	OD
6500.0 [ft]	DC	GEUS
6580.0 [ft]	DC	GEUS

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
90	NORDLAND GP
223	NO FORMAL NAME
430	HORDALAND GP
1023	ROGALAND GP
1023	BALDER FM
1039	SELE FM
1043	LISTA FM
1045	VÅLE FM
1048	SHETLAND GP
1048	EKOFISK FM
1110	TOR FM
1356	HOD FM
1455	BLODØKS FM
1493	CROMER KNOLL GP
1493	RØDBY FM
1510	ÅSGARD FM
1655	BOKNFJORD GP
1655	FLEKKEFJORD FM
1672	SAUDA FM
1750	BØRGLUM UNIT
1860	NO GROUP DEFINED
1860	GASSUM FM
1900	NO GROUP DEFINED
1900	SKAGERRAK FM

Composite logs

Document name	Document format	Document size [MB]
170	pdf	0.23

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





Document name	Document format	Document size [MB]
170_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]
170_11_10_1_COMPLETION_LOG	pdf	1.48
170_11_10_1_COMPLETION_REPORT	pdf	0.89

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
170_01_NPD_Paper_No.23_Lithology_Well_1_1_10_1	pdf	10.68
170_02_NPD_Paper_No.23_Interpreted_Lithology_log_Well_11_10_1	pdf	38.09

Logs

Log type	Log top depth [m]	Log bottom depth [m]
GR CAL SONIC	85	2426
IEL	254	2429
VELOCITY	85	2430

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
SURF.COND.	20	130.0	26	131.0	0.00	LOT
INTERM.	13 3/8	253.0	17 1/2	255.0	0.00	LOT
INTERM.	9 5/8	1023.0	12 1/4	1025.0	0.00	LOT
OPEN HOLE		2430.0	8 1/2	2430.0	0.00	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
253	1.05			water based	
1039	1.13	40.0	15.0	water based	
1463	1.23	40.0	6.0	water based	
1889	1.26	43.0	8.0	water based	
2429	1.26	40.0	5.0	water based	