General information

Wellbore name	31/6-7
Type	EXPLORATION
Purpose	APPRAISAL
Status	JUNKED
Factmaps in new window	link to map
Main area	NORTH SEA
Field	TROLL
Discovery	31/6-1 (Troll Øst)
Well name	31/6-7
Seismic location	N H 8202 - 338 SP. 247
Production licence	085
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	459-L
Drilling facility	TREASURE SEEKER
Drilling days	13
Entered date	01.04.1985
Completed date	13.04.1985
Release date	13.04.1987
Publication date	06.06.2006
Purpose - planned	APPRAISAL
Reentry	NO
Content	NOT APPLICABLE
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	300.0
Total depth (MD) [m RKB]	698.0
Final vertical depth (TVD) [m RKB]	698.0
Maximum inclination [°]	1.5
Bottom hole temperature [°C]	25
Oldest penetrated age	OLIGOCENE
Oldest penetrated formation	HORDALAND GP
Geodetic datum	ED50
NS degrees	60° 33' 19.68'' N
EW degrees	3° 40' 39.04'' E
NS UTM [m]	6713624.35
EW UTM [m]	537156.13
UTM zone	31
NPDID wellbore	141

Wellbore history

General

Appraisal well 31/6-7 was drilled in the south-west corner of the Troll East gas province. The main objectives of the well was to determine the lateral extent of the reservoir, to determine the fluid contacts in the Sognefjord Formation and to obtain the best possible seismic correlation within the reservoir from well 31/6-1. If hydrocarbons were encountered the well would be tested to obtain a number of reservoir engineering parameters: permeabilities and skin, fluid samples, pressure/temperature drops in tubing at various flow rates, reservoir inflow at high flow rates, and behaviour of gravel pack at high rates.

Operations and results

Well 31/6-7 was spudded with the semi-submersible installation Treasure Seeker on 1 April 1985 and drilled to TD at 698 m in Oligocene sediments. After drilling the 26" hole to 694 m, and setting the 20" casing it was discovered that the angle of the 18 3/8" wellhead was 2.5 degrees and it was decided to junk the well. The well was permanently plugged and abandoned on 13 April 1985, and the rig was moved 50 m due north to spud replacement well 31/6-8.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
420.00	690.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
325	NORDLAND GP
540	HORDALAND GP
540	NO FORMAL NAME

Composite logs

Document name	Document format	Document size [MB]
141	pdf	0.04

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

Document name	Document format	Document size [MB]
141_01_WDSS_General_Information	pdf	0.18
141_02_WDSS_completion_log	pdf	0.09

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

Document name	Document format	Document size [MB]
141_31_6_7_COMPLETION_REPORT_AND_LOG	pdf	34.84

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DLWD	410	695
ISF LSS GR	325	698

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	411.0	36	411.0	0.00	LOT
SURF.COND.	20	683.0	26	698.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
411	1.07			WATER BASED	11.04.1985
698	1.10	5.0	9.6	WATER BASED	11.04.1985
698	1.05	15.0	24.0	WATER BASED	11.04.1985

698	1.05	15.0	24.0	WATER BASED	11.04.1985
698	1.05			WATER BASED	11.04.1985
698	1.05			WATER BASED	11.04.1985