General information

Wellbore name	1/3-2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	1/3-2
Seismic location	LINE 5656 SP.5125
Production licence	011
Drilling operator	A/S Norske Shell
Drill permit	26-L
Drilling facility	SEDNETH I
Drilling days	75
Entered date	14.05.1969
Completed date	27.07.1969
Release date	27.07.1971
Publication date	30.04.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	73.0
Total depth (MD) [m RKB]	4297.0
Bottom hole temperature [°C]	143
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	SOLA FM
Geodetic datum	ED50
NS degrees	56° 56' 10'' N
EW degrees	2° 45' 0'' E
NS UTM [m]	6310443.20
EW UTM [m]	484786.28
UTM zone	31
NPDID wellbore	165

Wellbore history

General

Well 1/3-2 was drilled on the crest of a salt-induced anticline on the Hidra High in the North Sea.The main objective was possible L. Tertiary sands, well developed and productive in Phillips 7/11-1. Secondary objective was the Late Cretaceous chalky limestone, which had given shows in 1/3-1.

Operations and results

Wildcat well 1/3-2 was spudded with the semi-submersible installation Sedneth I on 14 May 1969 and drilled to TD at 4297 m in the Early Cretaceous Sola Formation. When drilling out of the 20" casing shoe, circulation was lost immediately, and the lost circulation zone had to be cemented off. The plastic clays caused continuous troubles, such as bit balling and plugged shaker screens, and the hole had to be reamed and washed several times. Below 3378 m diamond bits were used, and the drilling was interrupted frequently because of leaking bumper subs. The well was drilled water based with a 1 - 4 % addition of diesel through most of the well bore.

Tertiary sands were not developed, and whilst thick Late Cretaceous chalky limestone was found as predicted, there were no hydrocarbon bearing intervals in it, and reservoir qualities were poor. No source rock intervals were encountered, and only very minor traces of higher hydrocarbons were detected in the Late Paleocene-Early Eocene section, and in the interval 3761 to 3901 m in the Hod Formation.

A small core recovered by junk basket was taken at 3589.02 - 3589.5 m. No wire line fluid samples were taken.

The well was permanently abandoned on 27 July 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	3589.0	3589.3	[m]

Total core sample length [m]	0.3
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
98	NORDLAND GP
1533	HORDALAND GP
2964	ROGALAND GP
2964	BALDER FM

2978	SELE FM
3067	LISTA FM
3136	VÅLE FM
3207	SHETLAND GP
3207	EKOFISK FM
3270	TOR FM
3729	HOD FM
4024	BLODØKS FM
4060	HIDRA FM
4131	CROMER KNOLL GP
4131	RØDBY FM
4229	SOLA FM

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

Document name	Document format	Document size [MB]
165_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]
165_01_1_3_2_Completion_log	pdf	2.56
165_01_1_3_2_Well_Resume	pdf	24.93

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
165_01_NPD_Paper_No.15_Lithology_Well_1_3_2	pdf	14.98
165_02_NPD_Paper_No.15_Interpreted_Lithology_log_Well_1_3_2	pdf	64.62

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	147.0	36	147.0	0.00	LOT
SURF.COND.	20	406.0	26	412.0	0.00	LOT
INTERM.	13 3/8	1525.0	17 1/2	1531.0	0.00	LOT
INTERM.	9 5/8	3204.0	12 1/4	3213.0	0.00	LOT
OPEN HOLE		4298.0	8 1/2	4298.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
147	1.07	120.0		waterbased	
381	1.10	100.0		waterbased	
831	1.42	64.0		waterbased	
1530	1.44	49.0		waterbased	
2209	1.49	54.0		waterbased	
2824	1.61	57.0		waterbased	
3185	1.73	51.0		waterbased	
3779	1.61	52.0		waterbased	
4281	1.60	44.0		waterbased	