General information

Wellbore name	9/12-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	9/12-1
Seismic location	LINE 310 SP. 1692.
Production licence	012
Drilling operator	A/S Norske Shell
Drill permit	24-L
Drilling facility	SEDNETH I
Drilling days	40
Entered date	28.03.1969
Completed date	06.05.1969
Release date	06.05.1971
Publication date	25.04.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	61.0
Total depth (MD) [m RKB]	2698.0
Maximum inclination [°]	3
Bottom hole temperature [°C]	73
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SMITH BANK FM
Geodetic datum	ED50
NS degrees	57° 11' 40'' N
EW degrees	4° 57' 21'' E
NS UTM [m]	6340869.09
EW UTM [m]	618188.74
UTM zone	31
NPDID wellbore	163

Wellbore history

General

Well 9/12-1 is located in the North Sea, in the Danish-Norwegian Basin west of the Krabbe Fault Zone and Lista Fault Blocks. It was drilled near the crest of a salt induced anticlinal feature. The well is very similar to the 9/8-1 well, but the various geological units are somewhat thinner in 9/8-1. The objective of the well was to test the Tertiary and Mesozoic sequences.

Operations and results

Wildcat well 9/12-1 was spudded with the semi-submersible installation Sedneth I on 28 March 1969 and drilled to TD at 2698 m in the Triassic Smith Bank Formation. The 36" hole was drilled to 133 m and the 30" casing was run to 131 m. An 18 1/2" hole was drilled to 403 m, and two joints of 20" casing were hung from the 30" housing before the 13 3/8" casing was set at 395 m. Seawater was used as drilling fluid in the 36" and 18" holes and the returns were to the sea floor. After the setting of the 13 3/8" casing the mud system was converted to a Spersene/ XP-20 seawater mud, which was used to TD.

The well encountered porous Danian/Late Cretaceous limestones as well as Triassic and Jurassic sandstones, but no hydrocarbons. The Triassic was represented by about 600 m of continental red beds. There was a major unconformity to the overlying 65 m thick Middle Jurassic sandstones, which represent a marginal marine, deltaic environment. The Late Jurassic consisted of 165 m of mainly dark shales. During the Early Cretaceous in excess of 300 m of shales were deposited in the area while the Late Cretaceous is represented by 375 m of carbonates. From the Tertiary on the sedimentation turned to a clastic regime. Deposition of fine-grained sediments prevailed although this was interrupted by the deposition of more sandy units. The Tertiary is made up of about 1200 m of sediments in this well. Late Jurassic source rocks were confirmed by the well, but were found immature. The absence of hydrocarbons was by the operator firmly attributed to the immaturity of source rocks. No conventional core was cut and no fluid sample taken. Sixty-eight sidewall cores were recovered.

The well was permanently abandoned on 6 May 1969 as a dry hole.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
408.00	2698.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1340.0	[ft]	DC	RRI
1400.0	[ft]	DC	RRI
1408.5	[ft]	DC	OD

1420.6	[ft]	DC	OD
1432.8	[ft]	DC	OD
1445.0	[ft]	DC	OD
1457.2	[ft]	DC	OD
1460.0	[ft]	DC	RRI
1469.4	[ft]	DC	OD
1481.6	[ft]	DC	OD
1493.8	[ft]	DC	OD
1500.0	[ft]	DC	RRI
1506.0	[ft]	DC	OD
1518.2	[ft]	DC	OD
1530.4	[ft]	DC	OD
1540.0	[ft]	DC	RRI
1542.5	[ft]	DC	OD
1554.7	[ft]	DC	OD
1566.9	[ft]	DC	OD
1579.1	[ft]	DC	OD
1591.3	[ft]	DC	OD
1603.5	[ft]	DC	OD
1640.0	[ft]	DC	RRI
1700.0	[ft]	DC	RRI
1760.0	[ft]	DC	RRI
1820.0	[ft]	DC	RRI
1900.0	[ft]	DC	RRI
2040.0	[ft]	DC	RRI
2140.0	[ft]	DC	RRI
2240.0	[ft]	DC	RRI
2380.0	[ft]	DC	RRI
2460.0	[ft]	DC	RRI
2540.0	[ft]	DC	RRI
2620.0	[ft]	DC	RRI
2700.0	[ft]	DC	RRI
2820.0	[ft]	DC	RRI
2900.0	[ft]	DC	RRI
3040.0	[ft]	DC	RRI

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
87	NORDLAND GP
400	HORDALAND GP
987	ROGALAND GP
987	BALDER FM
1011	FISKEBANK FM
1085	LISTA FM
1138	VÅLE FM
1167	SHETLAND GP
1167	EKOFISK FM
1222	TOR FM
1445	HOD FM
1525	BLODØKS FM
1530	HIDRA FM
1550	CROMER KNOLL GP
1550	RØDBY FM
1609	ÅSGARD FM
1615	TUXEN FM
1645	ÅSGARD FM
1905	BOKNFJORD GP
1905	FLEKKEFJORD FM
1948	SAUDA FM
2005	BØRGLUM UNIT
2038	VESTLAND GP
2038	SANDNES FM
2050	BRYNE FM
2107	NO GROUP DEFINED
2107	SKAGERRAK FM
2417	SMITH BANK FM

Composite logs

Document name	Document format	Document size [MB]
163	pdf	0.44

Geochemical information

Document name	Document format	Document size [MB]
163_1	pdf	0.26
163_2	pdf	0.96
163_3	pdf	0.66
163_4	pdf	1.16

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

Document name	Document format	Document size [MB]
163_01_WDSS_General_Information	pdf	0.20

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

Document name	Document format	Document size [MB]
163_01_Resume_of_exploration_well_and_Completion_log	pdf	11.07

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
163_01_NPD_Paper_No.27_Lithology__Well_9_12_1	pdf	11.49
163_02_NPD_Paper_No.27_Interpreted_Lithology_log__Well_9_12_1	pdf	40.39
163_03_NPD_Paper_No.31_Correlation_chart_4__Well_9_12_1	pdf	0.60
163_04_NPD_Paper_No.31_Correlation_chart_4_II__Well_9_12_1	pdf	0.47

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL	85	1209
CDM	1209	2698
DIR	1209	2698

FDC	395	2696
FDC	395	2696
GR	91	395
IES	395	2697
LL-7	395	2698
MLL-C	395	2698
SGR-C	395	2694
SNP	1209	2698
SRC	85	2697
TS	30	1173

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	130.0	36	132.0	0.00	LOT
SURF.COND.	13 3/8	395.0	18 1/2	402.0	0.00	LOT
INTERM.	9 5/8	1210.0	12 1/2	1218.0	0.00	LOT
OPEN HOLE		2698.0	8 1/2	2698.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
122	1.02			seawater	
1144	1.43	48.0		waterbased	
1248	1.35	47.0		waterbased	
1860	1.36	48.0		waterbased	
2121	1.36	45.0		waterbased	
2371	1.36	57.0		waterbased	
2697	1.36	48.0		waterbased	