General information

Wellbore name	34/10-20
Type	EXPLORATION
Purpose	WILDCAT
Status	JUNKED
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	34/10-20
Seismic location	ST 8313 - 410 SP 220
Production licence	050
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	399-L
Drilling facility	ROSS ISLE
Drilling days	123
Entered date	23.12.1983
Completed date	23.04.1984
Release date	23.04.1986
Publication date	09.12.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	135.0
Total depth (MD) [m RKB]	3747.0
Final vertical depth (TVD) [m RKB]	3743.0
Maximum inclination [°]	4.3
Bottom hole temperature [°C]	115
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	CROMER KNOLL GP
Geodetic datum	ED50
NS degrees	61° 1' 20.39'' N
EW degrees	2° 17' 45.74'' E
NS UTM [m]	6765639.55
EW UTM [m]	461951.00
UTM zone	31
NPDID wellbore	212

Wellbore history

General

Well 34/10-20 was the first well drilled on the Gamma structure south of Gullfaks Sør in the northern North Sea. The primary objective was the Middle Jurassic Brent Group. Secondary objectives were Early Cretaceous sandstones, the Cook Formation and the Statfjord Group.

Operations and results

Wildcat well 34/10-20 was spudded with the semi-submersible installation Ross Isle on 23 December 1983 and drilled to TD at 3747 m in the Early Cretaceous Cromer Knoll Group. The well was plugged back and abandoned without reaching the targets. Engineering difficulties associated with high fluid pressure and low formation integrity was the reason why the well had to be abandoned. It was drilled with gel/seawater down to 1053 m, with KCl/polymer mud from 1053 m to 2990 m, and with lignosulphonate mud from 2990 m to TD.

The well was dry. Zones with weak shows, mostly on claystone cuttings, were recorded from 1860 m to 2050 m in the Rogaland Group.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 23 April 1984 as a junk well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
230.00	3745.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
157	NORDLAND GP
904	UTSIRA FM
988	HORDALAND GP
1868	ROGALAND GP
1868	BALDER FM
1903	SELE FM

1990	LISTA FM
2127	SHETLAND GP
2127	JORSALFARE FM
2408	KYRRE FM
3045	TRYGGVASON FM
3477	SVARTE FM
3650	CROMER KNOLL GP

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

Document name	Document format	Document size [MB]
212_01_WDSS_General_Information	pdf	0.13
212_02_WDSS_completion_log	pdf	0.30

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

Document name	Document format	Document size [MB]
212_34_10_20_Completion_log	pdf	2.45
212_34_10_20_Completion_Report	pdf	56.07
212_34_10_20_Stratigraphical_Paleontological_Final_Report	pdf	7.49

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BGT GR	1026	2721
BHC GR	3663	3699
CBL VDL GR	156	3656
DLWD	1026	3747
ISF LSS MSFL GR	1026	3743
LDL CNL GR	1026	3744
MWD	134	1026
VSP	165	3746

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	218.0	36	219.0	0.00	LOT
SURF.COND.	20	1026.0	26	1039.0	1.51	LOT
INTERM.	13 3/8	2658.0	17 1/2	2720.0	1.85	LOT
INTERM.	9 5/8	3532.0	12 1/4	3607.0	2.04	LOT
LINER	7	3660.0	8 1/2	3665.0	2.15	LOT
OPEN HOLE		3746.0	6	3746.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
221	1.06			WATER BASED	
615	1.08			WATER BASED	
1058	1.12			WATER BASED	
1400	1.13			WATER BASED	
2025	1.30			WATER BASED	
2288	1.32			WATER BASED	
2551	1.32			WATER BASED	
2643	1.35			WATER BASED	
2720	1.45			WATER BASED	
2735	1.60			WATER BASED	
3113	1.65			WATER BASED	
3252	1.70			WATER BASED	
3553	1.75			WATER BASED	
3601	1.81			WATER BASED	
3610	1.90			WATER BASED	
3639	1.97			WATER BASED	
3693	2.02			WATER BASED	
3726	2.04			WATER BASED	