

**General information**

Wellbore name	17/9-1 R
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	17/9-1
Seismic location	LINE N-9/C-315
Production licence	002
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	93-L2
Drilling facility	GLOMAR GRAND ISLE
Drilling days	25
Entered date	18.05.1974
Completed date	11.06.1974
Plugged and abandon date	11.06.1974
Release date	11.06.1976
Publication date	25.04.2005
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	9.0
Water depth [m]	159.0
Total depth (MD) [m RKB]	3161.0
Final vertical depth (TVD) [m RKB]	3161.0
Bottom hole temperature [°C]	62
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	58° 28' 27.26" N
EW degrees	3° 50' 16.18" E
NS UTM [m]	6481963.51
EW UTM [m]	548868.52
UTM zone	31
NPDID wellbore	515



Wellbore history

General

Well 17/9-1R is located in the Åsta Graben in the North Sea, ca 30 km north of the 17/12 -1R Bream Discovery well. The primary objective was to evaluate sands at the base of the Jurassic sequence. The structure is not associated with mobile salt, which is the case for the Bream Discovery. The first entry was suspended on 6 November 1973 at 2816 m when the riser was lost in a storm. The re-entry 17/9-1R was made to recover and repair the damaged stack on the sea floor. A deeping program was designed to 3658 m to test the Triassic and possible Zechstein sand intervals. Also a complete logging program was designed to include the portion of original hole below 2616 m, which was not logged due to storm damage to drill ship.

Operations and results

Well 17/9-1 was re-entered (17/9-1R) with the drill ship Glomar Grand Isle on 12 May 1974. The broken BOP stack left on the original hole was recovered and repaired by divers. A total of 7 days and 11 lock-out dives in 159 m water depth were required for these operations. After successful re-entry well bore 17/9-1R was drilled to TD at 3161 m in Late Triassic sand and shale of the Skagerrak Formation. The well bore was drilled with a lignosulphonate/seawater mud from re-entry point to TD.

The upper section of the Skagerrak Formation, from 2999.2 m to 3029.7 m, had sandstone with apparent porosity and questionable traces of dead oil. Sands penetrated in the interval from 3109 m to TD had no shows. The sands were found in thin zones and the potential reservoir quality was considered very poor. Organic geochemical analyses detected no significant source rock potential in the re-entry; the Late Jurassic shales penetrated in the first entry (17/9-1) thus remain as the only significant source rock in the total well bore. The well was found immature; possibly marginally mature towards the Late Triassic at TD (%Ro = 0.5). One organic geochemical study (Robertson Research) inferred "traces of migrant oil stain" in the interval from 2078 m to 2661 m in 17/9-1.

One core from 3073.0 m to 3077.3 m was taken with full recovery. The recovery was a basaltic -volcanic conglomerate with inclusions of calcite, volcanic tuff, siltstone, shale, quartzite and large mica-flakes (biotite). Triassic red Shale and Sand was drilled immediately below the core to total depth with no shows. A total 46 out of 57 attempted sidewall cores were recovered from the interval 2232 m to 3146 m. No fluid samples were taken.

The decision was made to plug and abandon after penetrating the Late Triassic with no shows of hydrocarbons in the well. The well was permanently abandoned on 11 June 1974 as dry hole.

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	10082.0	10098.0	[ft]



Total core sample length [m]	4.9
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
168	NORDLAND GP
439	HORDALAND GP
695	ROGALAND GP
695	BALDER FM
719	SELE FM
731	LISTA FM
738	VÅLE FM
746	SHETLAND GP
789	TOR FM
1085	HOD FM
1195	BLODØKS FM
1220	CROMER KNOLL GP
1220	RØDBY FM
1354	SOLA FM
1464	ÅSGARD FM
1933	BOKNEFJORD GP
1933	FLEKKEFJORD FM
1954	SAUDA FM
2165	TAU FM
2205	EGERSUND FM
2220	VESTLAND GP
2220	SANDNES FM
2237	NO FORMAL NAME
2835	NO GROUP DEFINED
2835	FJERRITSLEV FM
2992	NO GROUP DEFINED
2992	SKAGERRAK FM

Geochemical information





Document name	Document format	Document size [MB]
515 1	pdf	0.22
515 2	pdf	1.91
515 3	pdf	4.45

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

Document name	Document format	Document size [MB]
515 01 Completion report and Completion I og	pdf	9.91

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC-C	2545	3158
CDM	2113	3158
CDM AP	2113	3158
CDM FP	2113	3158
CDM PP	2113	3158
DIL	2545	3158
FDC CNL	2113	3158
IES	2545	3158
VELOCITY	410	3156

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
OPEN HOLE		3161.0	8 1/2	3161.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
3161	1.17			waterbased	

