

**General information**

Wellbore name	30/7-6 R
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	MARTIN LINGE
Discovery	30/7-6 Martin Linge
Well name	30/7-6
Seismic location	
Production licence	040
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	173-L3
Drilling facility	TREASURE SEEKER
Drilling days	47
Entered date	18.04.1978
Completed date	03.06.1978
Plugged and abandon date	03.06.1978
Release date	03.06.1980
Publication date	21.05.2015
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING/PLUGGING
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	24.0
Water depth [m]	116.0
Total depth (MD) [m RKB]	4115.0
Final vertical depth (TVD) [m RKB]	4115.0
Bottom hole temperature [°C]	127
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	60° 29' 29.82" N
EW degrees	2° 3' 26.14" E
NS UTM [m]	6706692.25



EW UTM [m]	448196.93
UTM zone	31
NPDID wellbore	507

Wellbore history

General

Well 30/7-6 R was originally named 30/7-6 Phase II by the operator group. It is a re-entry of well 30/7-6, which was suspended at a final depth of 3711 m after taking a massive gas kick at the base of the Heather Formation. The well is located on the East Shetland Basin in the North Sea close to the UK border. The main objective of the re-entry was Early and Middle Jurassic sandstones.

Operations and results

Wildcat well 30/7-6 was re-entered with the semi-submersible installation Treasure Seeker on 18 April 1978. The 7" liner shoe at 3707 m was drilled out with a 6" bit using 1.92 sp.gr. mud. A small influx of gas was encountered while drilling into the high-pressured reservoir sand at 3810 m. The gas influx was circulated out and the mud weight increased to 1.98 sp.gr. After several circulations, the mud density was raised to 2.04 sp.gr. Two days elapsed in conditioning and stabilizing the well. Further drilling proceeded without significant problems to TD at 4115 m in the Early Jurassic Drake Formation. The well was drilled with a fresh water gel/chromium-lignosulphonate mud system from 3707 m to TD.

The 30/7-6 well encountered the gas condensate bearing sandstones of Middle Jurassic age (Tarbert Formation) at 3792 m. The reservoir continued with interbeds of shales and coals down to the deepest sandstone at 3892 m in the top of the Ness Formation. Net sandstone in the interval is 75 m based on wire line log evaluation. No hydrocarbon-water contact was penetrated in the well. Average porosity is calculated to 19.4% and average water saturation to 20%. No shows were described below the hydrocarbon bearing reservoir.

No conventional cores were cut in the well. RFT fluid samples were taken at 3793 m (mud filtrate and a small quantity of 54.6 ° API condensate), at 3855.5 m (mud filtrate and a small quantity of 54.6 ° API condensate), and 3891.5 m (only mud filtrate).

The well was permanently abandoned on 3 June 1978 as a gas/condensate discovery.

Testing

No drill stem test was performed.

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
140	NORDLAND GP
455	UTSIRA FM
870	HORDALAND GP
1784	FRIGG FM



1965	ROGALAND GP
1965	BALDER FM
2000	LISTA FM
2044	HEIMDAL FM
2084	LISTA FM
2377	SHETLAND GP
3709	CROMER KNOLL GP
3725	VIKING GP
3725	DRAUPNE FM
3738	HEATHER FM
3792	BRENT GP
3792	TARBERT FM
3887	NESS FM
4001	ETIVE FM
4035	RANNOCH FM
4051	BROOM FM
4057	DUNLIN GP
4057	DRAKE FM

Geochemical information

Document name	Document format	Document size [MB]
507_GCH_1	pdf	0.02
507_GCH_2	pdf	0.43

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

Document name	Document format	Document size [MB]
507_03_WDSS_lithlog	pdf	0.08

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

Document name	Document format	Document size [MB]
507_30_7_6_R_COMPLETION_LOG	pdf	5.09
507_30_7_6_R_COMPLETION_REPORT	pdf	12.27





Logs

Log type	Log top depth [m]	Log bottom depth [m]
CNL GR	3250	3711
CST	3727	4109
DLL MSFL GR	3772	4113
FDC CNL GR	3702	4113
HDT	3707	4112
ISF SON GR	3702	4112
RFT	3793	3793
RFT	3806	3891
RFT	3855	4008
VELOCITY	120	4115

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
INTERM.	9 5/8	3252.0	12 1/4	3252.0	0.00	
LINER	7	3707.0	8 1/2	3711.0	0.00	
OPEN HOLE		4115.0	6	4115.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
3715	1.92	60.0		waterbased	
3968	2.10	46.0		waterbased	
4115	2.06	67.0		waterbased	