

**General information**

Wellbore name	15/6-2 R
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	GINA KROG
Discovery	15/5-1 Gina Krog
Well name	15/6-2
Seismic location	SC 23 SP.7490
Production licence	029
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	62-L2
Drilling facility	DRILLMASTER
Drilling days	85
Entered date	09.05.1974
Completed date	01.08.1974
Plugged and abandon date	01.08.1974
Release date	01.08.1976
Publication date	24.09.2015
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING
Content	GAS/CONDENSATE
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	HUGIN FM
Kelly bushing elevation [m]	24.0
Water depth [m]	115.0
Total depth (MD) [m RKB]	4779.0
Final vertical depth (TVD) [m RKB]	4779.0
Bottom hole temperature [°C]	91
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	58° 32' 47.58" N
EW degrees	1° 41' 54.09" E



NS UTM [m]	6490444.74
EW UTM [m]	424236.03
UTM zone	31
NPDID wellbore	517

Wellbore history

General

Well 15/6-2 R is a re-entry of well 15/6-2 in the Ve Sub-basin in the North Sea, ca 5 km north of the Sleipner Field. The initial well 16/6-2 was drilled to 3131 m in the Shetland Group with the drill vessel Glomar Grand Isle. The well found good shows in Paleocene sandstones and was suspended in October 1971. The primary objective of the re-entry was to deepen the well and test the Dogger (Middle Jurassic) deltaic sands. A secondary objective was to test the Lias section (Early Jurassic).

Operations and results

Wildcat well 15/6-2 re-entered on 9 May 1974. It was drilled with the semi-submersible installation Drillmaster to TD at 4779 m in the Late Permian Zechstein Group. The pipe stuck temporarily three times in intervals below 4602 m. Due to hole problems and tight spots no logs were run below 4611 m. The well was drilled with a seawater /lignosulphonate mud from re-entry point to TD.

The only hydrocarbon reservoir penetrated was the Dogger gas-condensate sands from 3582 to 3641 m. The lower part of Dogger section and all of the Lias section were cut out of this test by an erosional unconformity and/or faulting. The missing interval has good potential for additional reservoir quality sands. In addition, the Late Triassic has good sand development that could be adequate for reservoiring hydrocarbons. During the drilling of the Triassic and Permian section (3688 to TD), the background gas in mud and cuttings was near zero, which probably is related to lack of source material for hydrocarbons.

No shows were recorded except in Dogger.

Five cores were cut with 100% recovery in the interval 3582.3 to 3641.1 m. A total of eight FIT fluid samples were taken: P8 (3600.6 m, mud filtrate and poor gas), P7 (3606.4 m, gas and 2 litres condensate), P6 (3610.4 m, gas), P1 (3615.5 m, mud and gas), P3 (3616.5 m, gas and water), P5 (3623.5 m, gas and mud filtrate), P4 (3634.4 m, gas and 2 litres condensate), and P2 (3675.3 m, water, mud and filtrate).

The well was permanently abandoned on 1 August 1974. It is classified as an appraisal well for the 15/5-1 Gina Krog Discovery

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
3135.78	4779.26



Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	11735.0	11783.0	[ft]
2	11783.0	11822.0	[ft]
3	11823.0	11870.0	[ft]
4	11870.0	11898.0	[ft]
5	11898.0	11946.0	[ft]

Total core sample length [m]	64.0
Cores available for sampling?	YES

Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
FIT		3606.60	0.00	OIL	28.07.1974 - 00:00	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
139	NORDLAND GP
768	UTSIRA FM
1009	HORDALAND GP
1746	GRID FM
2112	ROGALAND GP
2112	BALDER FM
2155	SELE FM
2183	LISTA FM
2206	HEIMDAL FM
2676	VÅLE FM
2735	SHETLAND GP
3383	CROMER KNOLL GP
3438	VIKING GP



3438	DRAUPNE FM
3523	HEATHER FM
3583	VESTLAND GP
3583	HUGIN FM
3638	SLEIPNER FM
3682	STATFJORD GP

Geochemical information

Document name	Document format	Document size [MB]
517_GCH_1	pdf	0.35

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

Document name	Document format	Document size [MB]
517_15_6_2_R_COMPLETION_REPORT	pdf	11.53

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC	3078	4593
CDM	3063	3654
DIL	3078	4145
FDC CNL	3063	3654
IES	3680	4611
VELOCITY	1315	3611

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
LINER	7	3678.0	8 1/2	3681.0	0.00	
OPEN HOLE		4779.0	5 2/3	4779.0	0.00	



**Pressure plots**

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
517 Formation pressure (Formasjonstrykk)	pdf	0.20

