

**General information**

Wellbore name	15/6-4
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	15/6-4
Seismic location	
Production licence	029
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	159-L
Drilling facility	NORJARL
Drilling days	50
Entered date	28.06.1976
Completed date	16.08.1976
Release date	16.08.1978
Publication date	28.03.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	111.0
Total depth (MD) [m RKB]	3505.0
Final vertical depth (TVD) [m RKB]	3504.0
Maximum inclination [°]	3.5
Bottom hole temperature [°C]	99
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	58° 37' 34.39" N
EW degrees	1° 48' 19.94" E
NS UTM [m]	6499198.96
EW UTM [m]	430632.04
UTM zone	31
NPDID wellbore	319



Wellbore history

General

Well 15/6-4 was drilled on the southern end of the Gudrun Terrace in the North Sea. The objective was to test the hydrocarbon potential of Middle Jurassic (Dogger) sandstones.

Operations and results

Wildcat well 15/6-4 was spudded with the semi-submersible installation Norjarl on 28 June 1976 and drilled to TD at 3505 m in the Triassic Smith Bank Formation. The well was drilled water based with lignosulphonate/CMC/lignite below 3097 m

Top Draupne Formation was encountered at 3157 m. The target sandstone unit was encountered at 3222 m and was found to be water bearing.

Four cores were cut. Cores 1 and 2 were cut from 3226.3 m to 3247.6 m and cores 3 and 4 were cut from 3271.5 m to 3308 m. FIT fluid samples were taken on wire line at 3312 m (small amounts of gas and 10.2 l water) and at 3222.5 m (small amounts of gas and 10.2 l water).

The well was permanently abandoned on 16 August as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
180.00	3505.00

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	10585.0	10604.0	[ft]
2	10607.0	10651.2	[ft]
3	3271.3	3290.1	[m]
4	3290.1	3308.1	[m]



Total core sample length [m]	56.1
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1100.0	[m]	DC	
1130.0	[m]	DC	
1130.0	[m]	SWC	
1160.0	[m]	DC	
1190.0	[m]	DC	
1220.0	[m]	DC	
1240.0	[m]	DC	
1250.0	[m]	DC	
1250.0	[m]	SWC	
1280.0	[m]	DC	
1310.0	[m]	DC	
1340.0	[m]	DC	
1370.0	[m]	DC	
1400.0	[m]	DC	
1410.0	[m]	DC	
1430.0	[m]	DC	
1460.0	[m]	DC	
1490.0	[m]	DC	
1500.0	[m]	DC	
1520.0	[m]	DC	
1550.0	[m]	DC	
1580.0	[m]	DC	
1610.0	[m]	DC	
1640.0	[m]	DC	
1650.0	[m]	DC	
1670.0	[m]	DC	
1700.0	[m]	DC	
1700.0	[m]	SWC	
1720.0	[m]	DC	
1730.0	[m]	DC	
1750.0	[m]	SWC	
1760.0	[m]	DC	
1790.0	[m]	DC	



1820.0	[m]	DC	
1845.0	[m]	SWC	
1850.0	[m]	DC	
1850.0	[m]	DC	
1880.0	[m]	DC	
1885.0	[m]	SWC	
1910.0	[m]	DC	
1940.0	[m]	DC	
1970.0	[m]	DC	
1995.0	[m]	SWC	
2000.0	[m]	DC	
2030.0	[m]	DC	
2040.0	[m]	DC	
2050.0	[m]	DC	
2050.0	[m]	SWC	
2060.0	[m]	DC	
2090.0	[m]	DC	
2100.0	[m]	DC	
2110.0	[m]	DC	
2120.0	[m]	DC	
2130.0	[m]	DC	
2150.0	[m]	SWC	
2160.0	[m]	DC	
2176.0	[m]	SWC	
2180.0	[m]	DC	
2190.0	[m]	DC	
2200.0	[m]	DC	
2220.0	[m]	DC	
2220.0	[m]	SWC	
2249.0	[m]	SWC	
2250.0	[m]	DC	
2270.0	[m]	DC	
2280.0	[m]	DC	
2290.0	[m]	DC	
2295.0	[m]	SWC	
2300.0	[m]	DC	
2310.0	[m]	DC	
2310.0	[m]	SWC	
2326.0	[m]	SWC	
2340.0	[m]	DC	



2370.0 [m]	DC	
2400.0 [m]	DC	
2408.0 [m]	SWC	
2430.0 [m]	DC	
2433.0 [m]	SWC	
2460.0 [m]	DC	
2490.0 [m]	DC	
2490.0 [m]	DC	
2520.0 [m]	DC	
2550.0 [m]	DC	
2580.0 [m]	DC	
2612.0 [m]	DC	
2635.0 [m]	SWC	
2642.0 [m]	DC	
2672.0 [m]	DC	
2702.0 [m]	DC	
2732.0 [m]	DC	
2762.0 [m]	DC	
2792.0 [m]	DC	
2822.0 [m]	DC	
2852.0 [m]	DC	
2882.0 [m]	DC	
2912.0 [m]	DC	
2942.0 [m]	DC	
2972.0 [m]	DC	
3002.0 [m]	DC	
3032.0 [m]	DC	
3062.0 [m]	DC	
3065.0 [m]	SWC	
3092.0 [m]	DC	
3122.0 [m]	DC	
3131.0 [m]	DC	
3152.0 [m]	DC	
3160.0 [m]	SWC	
3161.0 [m]	DC	
3170.0 [m]	SWC	
3170.0 [m]	DC	
3175.0 [m]	SWC	
3180.0 [m]	SWC	
3182.0 [m]	DC	



3185.0 [m]	SWC	
3190.0 [m]	SWC	
3205.0 [m]	SWC	
3207.0 [m]	SWC	
3210.0 [m]	SWC	
3212.0 [m]	DC	
3213.0 [m]	SWC	
3215.0 [m]	SWC	
3218.0 [m]	SWC	
3218.0 [m]	DC	
3222.5 [m]	SWC	
3223.0 [m]	SWC	
3224.0 [m]	SWC	
3225.0 [m]	SWC	
3227.6 [m]	C	
3228.3 [m]	C	RRI
3228.5 [m]	C	
3228.8 [m]	C	RRI
3229.6 [m]	C	
3229.6 [m]	C	
3230.4 [m]	C	
3230.7 [m]	C	
3231.0 [m]	C	
3231.3 [m]	C	
3231.8 [m]	C	RRI
3231.8 [m]	C	
3232.8 [m]	C	
3233.2 [m]	C	
3234.4 [m]	C	
3234.6 [m]	C	
3234.8 [m]	C	RRI
3235.3 [m]	C	
3236.5 [m]	C	
3237.0 [m]	C	
3238.0 [m]	C	
3238.3 [m]	C	
3239.2 [m]	C	
3239.7 [m]	C	
3243.0 [m]	C	
3243.5 [m]	C	



3244.0 [m]	C	RRI
3244.0 [m]	C	
3244.4 [m]	C	
3244.9 [m]	C	RRI
3250.0 [m]	SWC	
3251.0 [m]	DC	
3263.0 [m]	SWC	
3267.5 [m]	SWC	
3272.0 [m]	DC	
3274.0 [m]	C	RRI
3279.3 [m]	C	
3283.9 [m]	C	
3287.0 [m]	C	
3290.5 [m]	C	
3294.0 [m]	C	
3295.4 [m]	C	
3297.2 [m]	C	
3298.1 [m]	C	
3307.6 [m]	C	
3308.0 [m]	C	
3311.0 [m]	DC	
3341.0 [m]	DC	
3350.0 [m]	SWC	
3365.0 [m]	DC	
3371.0 [m]	DC	
3400.0 [m]	DC	
3401.0 [m]	DC	
3431.0 [m]	DC	
3450.0 [m]	SWC	
3461.0 [m]	DC	
3488.0 [m]	DC	
3491.0 [m]	DC	
3505.0 [m]	DC	
3505.0 [m]	SWC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
136	NORDLAND GP



745	UTSIRA FM
1017	HORDALAND GP
1718	GRID FM
2174	ROGALAND GP
2174	BALDER FM
2225	SELE FM
2287	LISTA FM
2327	HEIMDAL FM
2605	SHETLAND GP
2605	EKOFISK FM
2667	TOR FM
3157	VIKING GP
3157	DRAUPNE FM
3187	HEATHER FM
3222	VESTLAND GP
3268	HEGRE GP
3268	SKAGERRAK FM

Geochemical information

Document name	Document format	Document size [MB]
319 1	pdf	0.31
319 2	pdf	0.68
319 3	pdf	2.00

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

Document name	Document format	Document size [MB]
319 01 WDSS General Information	pdf	0.28

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

Document name	Document format	Document size [MB]
319 15 6 4 COMPLETION LOG	pdf	1.96
319 15 6 4 COMPLETION REPORT	pdf	25.25





Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC SON	170	2742
CBL	1700	2518
CDM	2776	3505
DLL	2776	3505
FDC CNL	2776	3511
ISF	1079	2753
ISF SON	379	3505
MUD	170	3505
VELOCITY	170	3505

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	170.0	36	177.0	0.00	
SURF.COND.	20	379.0	26	394.0	0.00	
INTERM.	13 3/8	1083.0	17 1/2	1097.0	0.00	
INTERM.	9 5/8	2775.0	12 1/4	2789.0	0.00	
OPEN HOLE		3530.0	8 1/2	3530.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
168	1.06			waterbased	
1097	1.10			waterbased	
2356	1.16			waterbased	
2758	1.15			waterbased	
2788	1.16			waterbased	

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]
319 Formation pressure (Formasjonstrykk)	pdf	0.21

