

**General information**

Wellbore name	16/7-6
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	16/7-6
Seismic location	ES97-123 SP. 500-INLINE 1118 &CL 5664
Production licence	072
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	882-L
Drilling facility	STENA DEE
Drilling days	28
Entered date	27.06.1997
Completed date	24.07.1997
Release date	24.07.1999
Publication date	18.01.2007
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	78.0
Total depth (MD) [m RKB]	2725.0
Final vertical depth (TVD) [m RKB]	2725.0
Maximum inclination [°]	2.38
Bottom hole temperature [°C]	105
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	58° 15' 39.23" N
EW degrees	2° 2' 36.04" E
NS UTM [m]	6458303.16
EW UTM [m]	443863.11
UTM zone	31
NPDID wellbore	3067

**Wellbore history****General**

Wildcat well 16/7-6 is located ca 2 km south of the Sigyn Field. It was drilled to test the A-South prospect at Triassic level.

Operations and results

Well 16/7-6 was spudded with the semi-submersible installation Stena Dee on 27 June 1997 and drilled to TD at 2725 m in the Triassic Skagerrak Formation. A 36" hole was drilled from 103 - 178 m. The 30" casing was set at 176.5 m. A 9 7/8" pilot hole was drilled to 1160 m. No shallow gas was observed. The hole was opened up to 17 1/2" down to 1160 m and the 13 3/8" casing was set at 1153 m. The well was drilled with seawater down to 176.5 m and with Ancotec oil based mud from 1176.5 m to TD.

The well encountered the Skagerrak Formation sands at 2564 m. A total of 140.5 m of these sands were drilled before the well was terminated at 2725 m. Of this, petrophysical evaluation gave 134.4 m net sand with 20.3 % average porosity. The entire reservoir was water bearing. No shows were reported from any section of the well.

Two cores were cut from 2562 to 2626 m in the Skagerrak Formation. Seven MDT water samples were taken at 2621.6 m.

The well was permanently abandoned on 24 July 1997 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]
1170.00	2725.00

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	2562.0	2589.0	[m]
2	2589.0	2625.4	[m]

Total core sample length [m]	63.4
Cores available for sampling?	YES



Core photos



2562-2567m



2567-2572m



2672-2577m



2577-2582m



2582-2587m



2587-2589m



2589-2594m



2594-2599m



2599-2604m



2604-2609m



2609-2614m



2614-2619m



2619-2624m



2624-2625m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
103	NORDLAND GP
867	UTSIRA FM
1106	HORDALAND GP
2030	ROGALAND GP
2030	BALDER FM
2071	SELE FM
2115	LISTA FM
2184	VÅLE FM
2197	SHETLAND GP
2197	EKOFISK FM
2221	TOR FM
2419	HOD FM
2478	BLODØKS FM



2504	CROMER KNOLL GP
2504	RØDBY FM
2530	SOLA FM
2550	ÅSGARD FM
2555	VIKING GP
2555	DRAUPNE FM
2556	NO GROUP DEFINED
2556	UNDIFFERENTIATED
2565	SKAGERRAK FM

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

Document name	Document format	Document size [MB]
3067 16 7 6 COMPLETION LOG	pdf	2.43
3067 16 7 6 COMPLETION REPORT	pdf	91.22

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT IPL DSI	1153	2727
CMR	2540	2711
MDT	2582	2693
MWD LWD - GR RES DIR	178	2725
SWC	2495	2670
VSP	290	2720

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	176.0	36	178.0	0.00	LOT
SURF.COND.	13 3/8	1153.0	17 1/2	1160.0	2.01	LOT
OPEN HOLE		2725.0	12 1/4	2725.0	0.00	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1160	1.40	30.0		OIL BASED	
1400	1.32	30.0		OIL BASED	
1814	1.37	38.0		OIL BASED	
1984	1.37	34.0		OIL BASED	
2562	1.38	40.0		OIL BASED	

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]
3067_Formalion_pressure_(Formasjonstrykk)	pdf	0.21

