

**General information**

Wellbore name	6507/7-13 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Field	HEIDRUN
Discovery	6507/7-13 (Alpha Horst)
Well name	6507/7-13
Seismic location	ST97 inline 1233-xline1435
Production licence	095
Drilling operator	Conoco Norway Inc.
Drill permit	999-L
Drilling facility	MÆRSK JUTLANDER
Drilling days	14
Entered date	08.01.2001
Completed date	21.01.2001
Release date	21.01.2003
Publication date	28.06.2007
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	ÅRE FM
Kelly bushing elevation [m]	23.0
Water depth [m]	381.0
Total depth (MD) [m RKB]	2522.0
Final vertical depth (TVD) [m RKB]	2519.0
Maximum inclination [°]	11.1
Bottom hole temperature [°C]	90
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	65° 24' 4.53" N
EW degrees	7° 19' 49.2" E
NS UTM [m]	7254385.05



EW UTM [m]	422450.33
UTM zone	32
NPDID wellbore	4275

Wellbore history

General

Wildcat well 6507/7-13 was drilled on a horst structure at the flank of the Nordland Ridge, eight km north of the Heidrun Field installation. Hydrocarbons were proven in Åre Formation sandstones. Sidetrack 6507/7-13 A was drilled to obtain cores from the reservoir.

Operations and results

Appraisal well 6507/7-13 A was kicked off from 2148 m in well 6507/7-13 on 8 January 2001. It was drilled with the semi-submersible installation Maersk Jutlander to TD at 2522 m in Late Triassic sediments of the Åre Formation. The well was drilled with water based silicate/KCl mud from kick-off to TD.

The Åre Formation was encountered at 2390 m, 3 m TVD shallower than in 6507/7-13. Three cores were taken in the Åre Formation, from core point at 2416 m, below first coals to reduce chance jamming off. The three cores covered a total interval of 71 m.

The well was permanently abandoned on 21 January 2001 as an oil appraisal well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
2150.00	2390.00

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	2416.0	2440.4	[m]
2	2443.0	2466.9	[m]
3	2466.5	2487.3	[m]

Total core sample length [m]	69.0
Cores available for sampling?	YES



Core photos



2416-2420m



2420-2424m



2424-2428m



2428-2432m



2432-2436m



2436-2440m



2440-2441m



2443-2447m



2447-2451m



2451-2455m



2455-2459m



2459-2463m



2463-2467m



2466-2470m



2470-2474m



2474-2478m



2478-2482m



2482-2486m



2486-2487m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2150.0	[m]	DC	RRI
2170.0	[m]	DC	RRI
2200.0	[m]	DC	RRI
2230.0	[m]	DC	RRI
2260.0	[m]	DC	RRI
2290.0	[m]	DC	RRI



2320.0 [m]	DC	RRI
2350.0 [m]	DC	RRI
2380.0 [m]	DC	RRI
2410.0 [m]	DC	RRI
2418.0 [m]	C	RRI
2419.8 [m]	C	RRI
2433.0 [m]	C	RRI
2434.5 [m]	C	RRI
2436.2 [m]	C	RRI
2437.4 [m]	C	RRI
2445.0 [m]	C	RRI
2448.8 [m]	C	RRI
2456.7 [m]	C	RRI
2457.7 [m]	C	RRI
2460.0 [m]	C	RRI
2460.8 [m]	C	RRI
2462.0 [m]	C	RRI
2465.0 [m]	C	RRI
2466.5 [m]	C	RRI
2468.2 [m]	C	RRI
2470.0 [m]	C	RRI
2472.4 [m]	C	RRI
2475.0 [m]	C	RRI
2481.5 [m]	C	RRI
2483.0 [m]	C	RRI
2486.0 [m]	C	RRI
2487.2 [m]	C	RRI
2490.0 [m]	DC	RRI
2502.0 [m]	DC	RRI
2511.0 [m]	DC	RRI
2520.0 [m]	DC	RRI

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
404	NORDLAND GP
404	NAUST FM
1485	KAI FM
1842	HORDALAND GP



1842	BRYGGE FM
1990	ROGALAND GP
1990	TARE FM
2020	TANG FM
2080	SHETLAND GP
2390	BÅT GP
2390	ÅRE FM

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

Document name	Document format	Document size [MB]
4275_6507_7_13_A_COMPLETION_LOG	.pdf	0.57
4275_6507_7_13_A_FINAL_WELL_REPORT	.pdf	6.00

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DIR GR RES	2120	2148
LWD - DIR GR RES DEN NEU ULTRACA	2148	2522
VSP 3D STATIONARY	1750	1890
VSP 3D STATIONARY	1750	1890

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	465.0	36	466.0	0.00	LOT
SURF.COND.	13 3/8	1063.0	17 1/2	1065.0	1.57	LOT
INTERM.	9 5/8	2120.0	12 1/4	2122.0	1.89	LOT
OPEN HOLE		2623.0	8 1/2	2623.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
404	1.05			SPUD MUD	
420	1.02			LOW SOLIDS	





468	1.05	1.0		SPUD MUD	
468	1.05			SPUD MUD	
1930	1.46	22.0		LOW SOLIDS	
1970	1.46	22.0		LOW SOLIDS	
2128	1.43	22.0		LOW SOLIDS	
2414	1.39	25.0		LOW SOLIDS	
2467	1.40	23.0		LOW SOLIDS	
2623	1.39	20.0		LOW SOLIDS	