

**General information**

Wellbore name	6507/3-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Field	SKARV
Discovery	6507/3-3 (Idun)
Well name	6507/3-3
Seismic location	ST9717- INLINE 3260 & CROSSLINE 2590
Production licence	159
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	944-L
Drilling facility	BYFORD DOLPHIN
Drilling days	93
Entered date	23.12.1998
Completed date	25.03.1999
Release date	25.03.2001
Publication date	15.11.2001
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	FANGST GP
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	BÅT GP
Kelly bushing elevation [m]	25.0
Water depth [m]	391.0
Total depth (MD) [m RKB]	3830.0
Final vertical depth (TVD) [m RKB]	3796.0
Bottom hole temperature [°C]	135
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	65° 48' 3.73" N
EW degrees	7° 43' 28.69" E
NS UTM [m]	7298509.86



EW UTM [m]	441665.21
UTM zone	32
NPDID wellbore	3668

Wellbore history

General

The main objectives for the well were to test the hydrocarbon potential in the Middle and Lower Jurassic sandstones in the formations of the Fangst and Båt Groups. Secondary reservoir targets were to test the hydrocarbon potential in Lower Cretaceous sandstones of the Lange Formation.

Operations and results

The well 6507/3-3 was drilled to a total depth of 3830 m MD RKB, into Lower Jurassic Åre Formation. Water based mud was used down to 1720 m, oil based from 1720 to 3403, and water based again from there to TD. Gas was proven in the Jurassic sandstones. One core was cut in the Lange Formation from 2721 to 2747.7 m and 5 cores were cut in the Garn, Not, Ile, Ror, and Tilje Formations from 3375 to 3654 m. An MDT sample was collected in the Lange Formation, but contained mainly oil based mud filtrate. In the Jurassic section samples were collected in the Garn, Ile, Tilje, and Åre Formations. The well was plugged and abandoned on the 25th of March 1999 as a gas discovery.

Testing

No DST was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
710.00	3828.00

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	2721.0	2747.7	[m]
2	3375.0	3401.4	[m]
3	3403.0	3435.5	[m]
4	3461.0	3487.4	[m]
5	3545.0	3599.9	[m]
6	3600.0	3654.5	[m]



Total core sample length [m]	221.3
Cores available for sampling?	YES

Core photos



2721-2726m



2726-2731m



2731-2736m



2736-2741m



2741-2746m



2746-2748m



3375-3380m



3380-3385m



3385-3390m



3390-3395m



3395-3400m



3400-3401m



3403-3408m



3408-3413m



3413-3418m



3418-3423m



3423-3428m



3428-3433m



3433-3435m



3461-3466m



3466-3471m



3471-3476m



3476-3481m



3481-3486m



3486-3487m



3545-3550m



3550-3555m



3555-3560m



3560-3565m



3565-3570m



3570-3575m



3575-3580m



3580-3585m



3585-3590m



3590-3595m



3595-3600m



3600-3605m



3605-3610m



3610-3615m



3615-3620m



3620-3625m



3625-3630m



3630-3635m



3635-3640m



3640-3645m



3645-3650m



3650-3654m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1450.0	[m]	DC	GEOSTR
1470.0	[m]	DC	GEOSTR
1490.0	[m]	DC	GEOSTR



1510.0	[m]	DC	GEOSTR
1530.0	[m]	DC	GEOSTR
1550.0	[m]	DC	GEOSTR
1570.0	[m]	DC	GEOSTR
1590.0	[m]	DC	GEOSTR
1610.0	[m]	DC	GEOSTR
1630.0	[m]	DC	GEOSTR
1650.0	[m]	DC	GEOSTR
1670.0	[m]	DC	GEOSTR
1690.0	[m]	DC	GEOSTR
1710.0	[m]	DC	GEOSTR
1730.0	[m]	DC	GEOSTR
1750.0	[m]	DC	GEOSTR
1770.0	[m]	DC	GEOSTR
1790.0	[m]	DC	GEOSTR
1810.0	[m]	DC	GEOSTR
1830.0	[m]	DC	GEOSTR
1850.0	[m]	DC	GEOSTR
1870.0	[m]	DC	GEOSTR
1890.0	[m]	DC	GEOSTR
1910.0	[m]	DC	GEOSTR
1930.0	[m]	DC	GEOSTR
1950.0	[m]	DC	GEOSTR
1970.0	[m]	DC	GEOSTR
1990.0	[m]	DC	GEOSTR
2010.0	[m]	DC	GEOSTR
2030.0	[m]	DC	GEOSTR
2050.0	[m]	DC	GEOSTR
2070.0	[m]	DC	GEOSTR
2090.0	[m]	DC	GEOSTR
2110.0	[m]	DC	GEOSTR
2130.0	[m]	DC	GEOSTR
2150.0	[m]	DC	GEOSTR
2170.0	[m]	DC	GEOSTR
2190.0	[m]	DC	GEOSTR
2210.0	[m]	DC	GEOSTR
2230.0	[m]	DC	GEOSTR
2250.0	[m]	DC	GEOSTR
2270.0	[m]	DC	GEOSTR
2290.0	[m]	DC	GEOSTR



2310.0	[m]	DC	GEOSTR
2330.0	[m]	DC	GEOSTR
2350.0	[m]	DC	GEOSTR
2370.0	[m]	DC	GEOSTR
2390.0	[m]	DC	GEOSTR
2410.0	[m]	DC	GEOSTR
2430.0	[m]	DC	GEOSTR
2450.0	[m]	DC	GEOSTR
2470.0	[m]	DC	GEOSTR
2490.0	[m]	DC	GEOSTR
2500.0	[m]	DC	GEOSTR
2511.0	[m]	DC	GEOSTR
2523.0	[m]	DC	GEOSTR
2535.0	[m]	DC	GEOSTR
2547.0	[m]	DC	GEOSTR
2559.0	[m]	DC	GEOSTR
2571.0	[m]	DC	GEOSTR
2583.0	[m]	DC	GEOSTR
2595.0	[m]	DC	GEOSTR
2607.0	[m]	DC	GEOSTR
2619.0	[m]	DC	GEOSTR
2640.0	[m]	DC	GEOSTR
2652.0	[m]	DC	GEOSTR
2664.0	[m]	DC	GEOSTR
2676.0	[m]	DC	GEOSTR
2678.0	[m]	DC	GEOSTR
2688.0	[m]	DC	GEOSTR
2700.0	[m]	DC	GEOSTR
2712.0	[m]	DC	GEOSTR
2721.0	[m]	C	GEOSTR
2722.5	[m]	C	OD
2723.9	[m]	C	GEOSTRAT
2726.8	[m]	C	GEOSTR
2729.8	[m]	C	GEOSTR
2732.7	[m]	C	GEOSTR
2733.2	[m]	C	GEOSTR
2734.3	[m]	C	GEOSTR
2737.3	[m]	C	GEOSTR
2737.5	[m]	C	OD
2738.9	[m]	C	GEOSTRAT



2741.2	[m]	C	GEOSTR
2742.8	[m]	C	GEOSTR
2745.2	[m]	C	GEOSTR
2747.5	[m]	C	GEOSTR
2754.0	[m]	DC	GEOSTR
2766.0	[m]	DC	GEOSTR
2778.0	[m]	DC	GEOSTR
2790.0	[m]	DC	GEOSTR
2802.0	[m]	DC	GEOSTR
2814.0	[m]	DC	GEOSTR
2826.0	[m]	DC	GEOSTR
2838.0	[m]	DC	GEOSTR
2850.0	[m]	DC	GEOSTR
2862.0	[m]	DC	GEOSTR
2874.0	[m]	DC	GEOSTR
2886.0	[m]	DC	GEOSTR
2896.0	[m]	DC	GEOSTR
2910.0	[m]	DC	GEOSTR
2922.0	[m]	DC	GEOSTR
2934.0	[m]	DC	GEOSTR
2946.0	[m]	DC	GEOSTR
2958.0	[m]	DC	GEOSTR
2970.0	[m]	DC	GEOSTR
2985.0	[m]	DC	GEOSTR
2994.0	[m]	DC	GEOSTR
3006.0	[m]	DC	GEOSTR
3018.0	[m]	DC	GEOSTR
3030.0	[m]	DC	GEOSTR
3042.0	[m]	DC	GEOSTR
3054.0	[m]	DC	GEOSTR
3066.0	[m]	DC	GEOSTR
3078.0	[m]	DC	GEOSTR
3090.0	[m]	DC	GEOSTR
3102.0	[m]	DC	GEOSTR
3114.0	[m]	DC	GEOSTR
3126.0	[m]	DC	GEOSTR
3138.0	[m]	DC	GEOSTR
3150.0	[m]	DC	GEOSTR
3162.0	[m]	DC	GEOSTR
3174.0	[m]	DC	GEOSTR



3186.0 [m]	DC	GEOSTR
3198.0 [m]	DC	GEOSTR
3210.0 [m]	DC	GEOSTR
3222.0 [m]	DC	GEOSTR
3234.0 [m]	DC	GEOSTR
3246.0 [m]	DC	GEOSTR
3258.0 [m]	DC	GEOSTR
3270.0 [m]	DC	GEOSTR
3282.0 [m]	DC	GEOSTR
3294.0 [m]	DC	GEOSTR
3306.0 [m]	DC	GEOSTR
3318.0 [m]	DC	GEOSTR
3330.0 [m]	DC	GEOSTR
3342.0 [m]	DC	GEOSTR
3354.0 [m]	DC	GEOSTR
3366.0 [m]	DC	GEOSTR
3372.0 [m]	DC	GEOSTR
3375.7 [m]	C	GEOSTR
3381.5 [m]	C	GEOSTR
3383.5 [m]	C	GEOSTR
3383.6 [m]	C	GEOSTR
3386.3 [m]	C	GEOSTR
3395.5 [m]	C	GEOSTR
3398.7 [m]	C	GEOSTR
3400.3 [m]	C	GEOSTR
3406.9 [m]	C	GEOSTR
3408.6 [m]	C	GEOSTR
3411.5 [m]	C	GEOSTR
3412.6 [m]	C	GEOSTR
3415.6 [m]	C	GEOSTR
3418.3 [m]	C	GEOSTR
3421.5 [m]	C	GEOSTR
3424.9 [m]	C	GEOSTR
3427.9 [m]	C	GEOSTR
3430.5 [m]	C	GEOSTR
3432.0 [m]	C	GEOSTR
3434.3 [m]	C	GEOSTR
3434.9 [m]	C	GEOSTR
3435.4 [m]	C	GEOSTR
3438.0 [m]	DC	GEOSTR



3450.0 [m]	DC	GEOSTR
3459.0 [m]	DC	GEOSTR
3461.3 [m]	C	GEOSTR
3464.4 [m]	C	GEOSTR
3467.5 [m]	C	GEOSTR
3470.6 [m]	C	GEOSTR
3474.5 [m]	C	GEOSTR
3476.5 [m]	C	GEOSTR
3479.4 [m]	C	GEOSTR
3482.4 [m]	C	GEOSTR
3485.4 [m]	C	GEOSTR
3487.4 [m]	C	GEOSTR
3492.0 [m]	DC	GEOSTR
3498.0 [m]	DC	GEOSTR
3508.0 [m]	DC	GEOSTR
3510.0 [m]	DC	GEOSTR
3516.0 [m]	DC	GEOSTR
3528.0 [m]	DC	GEOSTR
3540.0 [m]	DC	GEOSTR
3545.1 [m]	C	GEOSTR
3549.0 [m]	C	GEOSTR
3551.3 [m]	C	GEOSTR
3552.1 [m]	C	GEOSTR
3554.5 [m]	C	GEOSTR
3560.7 [m]	C	GEOSTR
3565.2 [m]	C	GEOSTR
3567.4 [m]	C	GEOSTR
3571.6 [m]	C	GEOSTR
3574.3 [m]	C	GEOSTR
3577.5 [m]	C	GEOSTR
3581.9 [m]	C	GEOSTR
3584.9 [m]	C	GEOSTR
3587.9 [m]	C	GEOSTR
3590.6 [m]	C	GEOSTR
3593.6 [m]	C	GEOSTR
3599.6 [m]	C	GEOSTR
3600.7 [m]	C	GEOSTR
3603.8 [m]	C	GEOSTR
3606.5 [m]	C	GEOSTR
3609.0 [m]	C	GEOSTR



3610.5 [m]	C	GEOSTR
3613.8 [m]	C	GEOSTR
3617.5 [m]	C	GEOSTR
3621.5 [m]	C	GEOSTR
3624.9 [m]	C	GEOSTR
3626.9 [m]	C	GEOSTR
3630.3 [m]	C	GEOSTR
3632.9 [m]	C	GEOSTR
3636.6 [m]	C	GEOSTR
3639.5 [m]	C	GEOSTR
3642.5 [m]	C	GEOSTR
3645.5 [m]	C	GEOSTR
3649.3 [m]	C	GEOSTR
3652.4 [m]	C	GEOSTR
3654.4 [m]	C	GEOSTR
3657.0 [m]	DC	GEOSTR
3663.0 [m]	DC	GEOSTR
3669.0 [m]	DC	GEOSTR
3675.0 [m]	DC	GEOSTR
3681.0 [m]	DC	GEOSTR
3687.0 [m]	DC	GEOSTR
3693.0 [m]	DC	GEOSTR
3699.0 [m]	DC	GEOSTR
3705.0 [m]	DC	GEOSTR
3711.0 [m]	DC	GEOSTR
3717.0 [m]	DC	GEOSTR
3723.0 [m]	DC	GEOSTR
3729.0 [m]	DC	GEOSTR
3735.0 [m]	DC	GEOSTR
3741.0 [m]	DC	GEOSTR
3747.0 [m]	DC	GEOSTR
3753.0 [m]	DC	GEOSTR
3759.0 [m]	DC	GEOSTR
3765.0 [m]	DC	GEOSTR
3771.0 [m]	DC	GEOSTR
3777.0 [m]	DC	GEOSTR
3783.0 [m]	DC	GEOSTR
3789.0 [m]	DC	GEOSTR
3795.0 [m]	DC	GEOSTR
3801.0 [m]	DC	GEOSTR



3807.0	[m]	DC	GEOSTR
3813.0	[m]	DC	GEOSTR
3819.0	[m]	DC	GEOSTR
3825.0	[m]	DC	GEOSTR
3828.0	[m]	DC	GEOSTR

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
416	NORDLAND GP
416	NAUST FM
1372	KAI FM
1710	HORDALAND GP
1710	BRYGGE FM
1931	ROGALAND GP
1931	TARE FM
2010	TANG FM
2045	SHETLAND GP
2045	SPRINGAR FM
2641	CROMER KNOLL GP
2641	LANGE FM
3013	VIKING GP
3013	SPEKK FM
3093	MELKE FM
3364	FANGST GP
3364	GARN FM
3404	NOT FM
3447	ILE FM
3478	BÅT GP
3478	ROR FM
3538	TILJE FM
3680	ÅRE FM

Composite logs

Document name	Document format	Document size [MB]
3668	pdf	0.46





Geochemical information

Document name	Document format	Document size [MB]
3668_1	pdf	1.72
3668_2	pdf	1.89
3668_3	pdf	1.43
3668_4	pdf	1.37

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

Document name	Document format	Document size [MB]
3668_6507_3_3_COMPLETION_LOG	.pdf	2.57
3668_6507_3_3_COMPLETION_REPORT	.pdf	33.31

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DIR	473	669
DIR	640	676
DLL MLL MAC DGR TTRM	3363	3827
FMT GR	2641	3372
FMT GR	2686	2686
GR MPR	490	699
GR MPR	657	3830
HDIL MAC DGR TTRM	1752	3371
MDT GR	3376	3797
MDT GR	3388	3388
VSP	1775	2786
VSP	2786	3771
ZDL CND HDIPW DSI TT	3306	3828
ZDL ZND DSLI	1752	3374

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	476.0	36	480.0	0.00	LOT
SURF.COND.	20	667.0	26	701.0	1.28	LOT
INTERM.	13 3/8	1752.0	17 1/2	1758.0	1.65	LOT
INTERM.	9 5/8	3362.0	12 1/4	3367.0	1.59	LOT
OPEN HOLE		3830.0	8 1/2	3830.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
453	1.00			sea-water/P	
481	1.00			sea-water/P	
673	1.00			sea-water/P	
861	1.10	19.0		sea-water/P	
1270	1.20	20.0		sea-water/P	
1719	1.50	44.0		oil based m	
1733	1.50	44.0		oil based m	
1761	1.50	41.0		oil based m	
1805	1.50	45.0		oil based m	
1887	1.50	43.0		oil based m	
1935	1.50	33.0		oil based m	
1951	1.50	44.0		oil based m	
2511	1.50	23.0		oil based m	
2721	1.50	33.0		oil based m	
2748	1.50	32.0		oil based m	
2820	1.50	33.0		oil based m	
3088	1.50	31.0		oil based m	
3200	1.50	35.0		oil based m	
3355	1.50	30.0		oil based m	
3375	1.50	35.0		oil based m	
3403	1.20	48.0		quadrill	
3437	1.20	38.0		quadrill	
3448	1.20	46.0		quadrill	
3461	1.20	32.0		quadrill	
3487	1.20	41.0		quadrill	
3511	1.20	41.0		quadrill	
3545	1.20	35.0		quadrill	



3599	1.20	37.0		quadrill	
3654	1.20	33.0		quadrill	
3830	1.20	36.0		quadrill	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
2733.45	[m]
2742.55	[m]

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]
3668 Formation pressure (Formasjonstrykk)	pdf	0.28

