

**General information**

Wellbore name	30/8-1 S
Type	EXPLORATION
Purpose	WILDCAT
Status	SUSPENDED
Factmaps in new window	link to map
Main area	NORTH SEA
Field	TUNE
Discovery	30/8-1 S Tune
Well name	30/8-1
Seismic location	VG 91-inline 277& x-line 546
Production licence	190
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	797-L
Drilling facility	TREASURE SAGA
Drilling days	121
Entered date	01.11.1994
Completed date	01.03.1995
Release date	01.03.1997
Publication date	01.08.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	26.0
Water depth [m]	96.0
Total depth (MD) [m RKB]	4688.0
Final vertical depth (TVD) [m RKB]	4348.0
Maximum inclination [°]	43.1
Bottom hole temperature [°C]	151
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	AMUNDSEN FM
Geodetic datum	ED50
NS degrees	60° 27' 46.93" N
EW degrees	2° 38' 6.53" E
NS UTM [m]	6703193.60
EW UTM [m]	479933.47



UTM zone	31
NPDID wellbore	2430

Wellbore history

General

Well 30/8-1 S was drilled in the Viking Graben of the North Sea, just west of the Oseberg Fields. The objective was to test the hydrocarbon potential of the Jurassic Brent Group and Statfjord Formation. The well was committed to drill into the Hegre Group or to a maximum depth of 5026 m TVD.

Operations and results

Wildcat well 30/8-1 S was spudded with the semi-submersible installation Treasure Saga on 1 November 1994 and drilled to TD at 4688 m in the Early Jurassic Amundsen Formation. No shallow gas was observed in the well. A kick was taken at 4055 m, where 0.8 m³ was gained over a 30 minute interval on drilling and 1.8 m³ gained on flow checking before shutting in the well. The kick was circulated out through the choke manifold and the well was killed with heavy mud. When logging the 12 1/4" section the tools got stuck several times. On a short wiper trip to the 9 5/8" casing shoe a 2.5 m³ kick was taken when circulating and 1.67 m³ while flow checking. Again the well was killed with heavy mud. Frequent mud losses were experienced in the final 8 3/8" section from 4332 to TD. The well was drilled with spud mud down to 1360 m, with KCl/polymer mud from 1360 m to 4058 m, and with Ancoterm High Temperature water based mud from 4058 m to TD.

The main reservoir interval consisted of the Middle and Lower Tarbert Formations, but the Ness and the ORE Formations were also encountered. Hydrocarbons were encountered in the Tarbert Formation in a gas-down-to situation at 3687 m (3525.8 m TVD). Net sand is 109.9 m, with net pay of 84.7 m. An additional thin hydrocarbon-bearing zone is indicated in sandstones of the Ness Formation at 3884 - 3888 m. The formation pressure data indicate a clear Tarbert Gas gradient (rich gas), and a water gradient in the underlying interval. There is no pressure communication between the hydrocarbon bearing zone and the water zone in the well position. The pressure regime in the Brent Group was higher than anticipated. Weak oil shows were encountered in the Late Maastrichtian. Gas shows were encountered in the Heather Formation and in the Brent Group.

A total of 203 m core was recovered in 13 cores from the Heather, Tarbert, and Ness Formations. A wire line water sample was taken at 3734.9 m.

The well was suspended on 1 March 1995 due to environmental regulations. It is classified as a gas/condensate discovery. It was re-entered later same year to fulfil the drilling commitment and to test the Brent and possible Statfjord discoveries.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate



Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1370.00	3317.00

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	3457.0	3461.4	[m]
2	3526.0	3527.0	[m]
3	3563.0	3572.8	[m]
4	3572.9	3600.5	[m]
5	3601.0	3615.5	[m]
6	3616.0	3620.7	[m]
7	3621.0	3648.7	[m]
8	3648.7	3677.7	[m]
9	3677.7	3700.8	[m]
10	3701.0	3709.7	[m]
11	3710.3	3739.7	[m]
12	3739.7	3742.2	[m]
13	3743.0	3754.7	[m]

Total core sample length [m]	194.1
Cores available for sampling?	YES

Core photos



3457-3461m



3461-3461m



3526-3527m



3563-3567m



3567-3571m



3571-3572m



3572-3576m



3576-3580m



3580-3584m



3584-3588m



3588-3592m



3592-3596m



3596-3600m



3600-3600m



3601-3605m



3605-3609m



3609-3613m



3613-3615m



3620-3620m



3621-3625m



3625-3629m



3629-3633m



3633-3637m



3687-3641m



3641-3645m



3645-3648m



3648-3652m



3652-3656m



3656-3660m



3460-3664m



3664-3668m



3668-3672m



3672-3676m



3678-3677m



3677-3681m



3681-3685m



3685-3689m



3689-3693m



3693-3697m



3697-3700m



3701-3705m



3705-3709m



3709-3710m



3710-3714m



3714-3718m



3718-3722m



3722-3726m



3726-3730m



3730-3734m



3734-3738m



3738-3739m



3739-3742m



3743-3747m



3747-3751m



3751-3754m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1369.0	[m]	SWC	GEOST
1390.0	[m]	SWC	GEOST
1401.0	[m]	SWC	GEOST
1430.0	[m]	SWC	GEOST
1450.0	[m]	SWC	GEOST
1470.0	[m]	SWC	GEOST
1490.0	[m]	SWC	GEOST
1514.0	[m]	SWC	GEOST
1530.0	[m]	SWC	GEOST
1550.0	[m]	SWC	GEOST
1570.0	[m]	SWC	GEOST
1590.0	[m]	SWC	GEOST
1610.0	[m]	SWC	GEOST
1630.0	[m]	SWC	GEOST
1650.0	[m]	SWC	GEOST



1670.0 [m]	SWC	GEOST
1690.0 [m]	SWC	GEOST
1710.0 [m]	SWC	GEOST
1730.0 [m]	SWC	GEOST
1750.0 [m]	SWC	GEOST
1770.0 [m]	SWC	GEOST
1790.0 [m]	SWC	GEOST
1810.0 [m]	SWC	GEOST
1830.0 [m]	SWC	GEOST
1840.0 [m]	SWC	GEOST
1860.0 [m]	SWC	GEOST
1870.0 [m]	SWC	GEOST
1890.0 [m]	SWC	GEOST
1910.0 [m]	SWC	GEOST
1930.0 [m]	SWC	GEOST
1946.0 [m]	SWC	GEOST
1970.0 [m]	SWC	GEOST
1990.0 [m]	SWC	GEOST
2010.0 [m]	SWC	GEOST
2017.0 [m]	SWC	GEOST
2050.0 [m]	SWC	GEOST
2062.0 [m]	SWC	GEOST
2077.0 [m]	SWC	GEOST
2090.0 [m]	SWC	GEOST
2099.0 [m]	SWC	GEOST
2110.0 [m]	SWC	GEOST
2117.0 [m]	SWC	GEOST
2130.0 [m]	SWC	GEOST
2140.0 [m]	SWC	GEOST
2150.0 [m]	SWC	GEOST
2160.0 [m]	SWC	GEOST
2170.0 [m]	SWC	GEOST
2182.0 [m]	SWC	GEOST
2190.0 [m]	SWC	GEOST
2200.0 [m]	SWC	GEOST
2210.0 [m]	SWC	GEOST
2220.0 [m]	SWC	GEOST
2230.0 [m]	SWC	GEOST
2234.0 [m]	SWC	GEOST
2240.0 [m]	SWC	GEOST



2248.0	[m]	SWC	GEOST
2250.0	[m]	SWC	GEOST
2260.0	[m]	SWC	GEOST
2270.0	[m]	SWC	GEOST
2280.0	[m]	SWC	GEOST
2287.0	[m]	SWC	GEOST
2295.0	[m]	SWC	GEOST
2300.0	[m]	SWC	GEOST
2313.0	[m]	SWC	GEOST
2320.0	[m]	SWC	GEOST
2327.0	[m]	SWC	GEOST
2345.0	[m]	SWC	GEOST
2350.0	[m]	SWC	GEOST
2362.0	[m]	SWC	GEOST
2366.0	[m]	SWC	GEOST
2380.0	[m]	SWC	GEOST
2390.0	[m]	SWC	GEOST
2400.0	[m]	SWC	GEOST
2410.0	[m]	SWC	GEOST
2420.0	[m]	SWC	GEOST
2425.0	[m]	SWC	GEOST
2432.0	[m]	SWC	GEOST
2442.0	[m]	SWC	GEOST
2450.0	[m]	SWC	GEOST
2470.0	[m]	SWC	GEOST
2480.0	[m]	SWC	GEOST
2500.0	[m]	SWC	GEOST
2520.0	[m]	SWC	GEOST
2540.0	[m]	SWC	GEOST
2560.0	[m]	SWC	GEOST
2580.0	[m]	SWC	GEOST
2604.0	[m]	SWC	GEOST
2620.0	[m]	SWC	GEOST
2640.0	[m]	SWC	GEOST
2660.0	[m]	SWC	GEOST
2693.0	[m]	SWC	GEOST
2700.0	[m]	SWC	GEOST
2720.0	[m]	SWC	GEOST
2740.0	[m]	SWC	GEOST
2760.0	[m]	SWC	GEOST



2780.0	[m]	SWC	GEOST
2800.0	[m]	SWC	GEOST
2820.0	[m]	SWC	GEOST
2840.0	[m]	SWC	GEOST
2860.0	[m]	SWC	GEOST
2880.0	[m]	SWC	GEOST
2900.0	[m]	SWC	GEOST
2920.0	[m]	SWC	GEOST
2940.0	[m]	SWC	GEOST
2960.0	[m]	SWC	GEOST
2980.0	[m]	SWC	GEOST
3000.0	[m]	SWC	GEOST
3020.0	[m]	SWC	GEOST
3040.0	[m]	SWC	GEOST
3060.0	[m]	SWC	GEOST
3080.0	[m]	SWC	GEOST
3100.0	[m]	SWC	GEOST
3120.0	[m]	SWC	GEOST
3140.0	[m]	SWC	GEOST
3160.0	[m]	SWC	GEOST
3180.0	[m]	SWC	GEOST
3200.0	[m]	SWC	GEOST
3220.0	[m]	SWC	GEOST
3240.0	[m]	SWC	GEOST
3245.0	[m]	SWC	GEOST
3255.0	[m]	SWC	GEOST
3260.0	[m]	SWC	GEOST
3280.0	[m]	SWC	GEOST
3300.0	[m]	SWC	GEOST
3320.0	[m]	SWC	GEOST
3330.0	[m]	SWC	GEOST
3340.0	[m]	SWC	GEOST
3350.0	[m]	SWC	GEOST
3360.0	[m]	SWC	GEOST
3370.0	[m]	SWC	GEOST
3380.0	[m]	SWC	GEOST
3390.0	[m]	SWC	GEOST
3400.0	[m]	SWC	GEOST
3410.0	[m]	SWC	GEOST
3420.0	[m]	SWC	GEOST



3430.0 [m]	SWC	GEOST
3440.0 [m]	SWC	GEOST
3447.0 [m]	C	GEOST
3450.0 [m]	SWC	GEOST
3457.0 [m]	C	GEOST
3460.0 [m]	C	GEOST
3461.0 [m]	C	GEOST
3462.0 [m]	SWC	GEOST
3470.0 [m]	SWC	GEOST
3500.0 [m]	SWC	GEOST
3510.0 [m]	SWC	GEOST
3520.0 [m]	SWC	GEOST
3527.0 [m]	C	GEOST
3530.0 [m]	SWC	GEOST
3540.0 [m]	SWC	GEOST
3550.0 [m]	SWC	GEOST
3560.0 [m]	SWC	GEOST
3565.0 [m]	SWC	GEOST
3568.0 [m]	C	GEOST
3569.0 [m]	C	GEOST
3570.0 [m]	C	GEOST
3571.0 [m]	C	GEOST
3573.0 [m]	C	GEOST
3578.0 [m]	C	GEOST
3584.0 [m]	C	GEOST
3593.0 [m]	C	GEOST
3596.0 [m]	C	GEOST
3604.0 [m]	C	GEOST
3614.0 [m]	C	GEOST
3627.0 [m]	C	GEOST
3639.0 [m]	C	GEOST
3643.0 [m]	C	GEOST
3646.0 [m]	C	GEOST
3649.0 [m]	C	GEOST
3650.0 [m]	C	GEOST
3662.0 [m]	C	GEOST
3669.0 [m]	C	GEOST
3674.0 [m]	C	GEOST
3686.0 [m]	C	GEOST
3690.0 [m]	C	GEOST



3692.0 [m]	C	GEOST
3696.0 [m]	C	GEOST
3701.0 [m]	C	GEOST
3705.0 [m]	C	GEOST
3712.0 [m]	C	GEOST
3713.0 [m]	C	GEOST
3716.0 [m]	C	GEOST
3722.0 [m]	C	GEOST
3732.0 [m]	C	GEOST
3741.0 [m]	C	GEOST
3748.0 [m]	C	GEOST
3751.0 [m]	C	GEOST
3754.0 [m]	C	GEOST
3755.0 [m]	C	GEOST
3762.0 [m]	SWC	GEOST
3770.0 [m]	SWC	GEOST
3777.0 [m]	SWC	GEOST
3785.0 [m]	SWC	GEOST
3792.0 [m]	SWC	GEOST
3800.0 [m]	SWC	GEOST
3807.0 [m]	SWC	GEOST
3815.0 [m]	SWC	GEOST
3822.0 [m]	SWC	GEOST
3830.0 [m]	SWC	GEOST
3837.0 [m]	SWC	GEOST
3845.0 [m]	SWC	GEOST
3850.0 [m]	SWC	GEOST
3860.0 [m]	SWC	GEOST
3867.0 [m]	SWC	GEOST
3875.0 [m]	SWC	GEOST
3882.0 [m]	SWC	GEOST
3890.0 [m]	SWC	GEOST
3897.0 [m]	SWC	GEOST
3905.0 [m]	SWC	GEOST
3912.0 [m]	SWC	GEOST
3920.0 [m]	SWC	GEOST
3927.0 [m]	SWC	GEOST
3935.0 [m]	SWC	GEOST
3942.0 [m]	SWC	GEOST
3950.0 [m]	SWC	GEOST



3957.0 [m]	SWC	GEOST
3965.0 [m]	SWC	GEOST
3972.0 [m]	SWC	GEOST
3980.0 [m]	SWC	GEOST
3987.0 [m]	SWC	GEOST
3995.0 [m]	SWC	GEOST
4002.0 [m]	SWC	GEOST
4010.0 [m]	SWC	GEOST
4017.0 [m]	SWC	GEOST
4025.0 [m]	SWC	GEOST
4032.0 [m]	SWC	GEOST
4040.0 [m]	SWC	GEOST
4047.0 [m]	SWC	GEOST
4055.0 [m]	SWC	GEOST
4062.0 [m]	SWC	GEOST
4070.0 [m]	SWC	GEOST
4077.0 [m]	SWC	GEOST
4085.0 [m]	SWC	GEOST
4092.0 [m]	SWC	GEOST
4100.0 [m]	SWC	GEOST
4107.0 [m]	SWC	GEOST
4115.0 [m]	SWC	GEOST
4125.0 [m]	SWC	GEOST
4165.0 [m]	SWC	GEOST
4205.0 [m]	SWC	GEOST
4225.0 [m]	SWC	GEOST
4265.0 [m]	SWC	GEOST
4285.0 [m]	SWC	GEOST
4305.0 [m]	SWC	GEOST
4322.0 [m]	SWC	GEOST
4332.0 [m]	SWC	GEOST
4350.0 [m]	SWC	GEOST
4370.0 [m]	SWC	GEOST
4390.0 [m]	SWC	GEOST
4410.0 [m]	SWC	GEOST
4430.0 [m]	SWC	GEOST
4450.0 [m]	SWC	GEOST
4470.0 [m]	SWC	GEOST
4490.0 [m]	SWC	GEOST
4510.0 [m]	SWC	GEOST



4530.0	[m]	SWC	GEOST
4550.0	[m]	SWC	GEOST
4572.0	[m]	SWC	GEOST
4590.0	[m]	SWC	GEOST
4610.0	[m]	SWC	GEOST
4630.0	[m]	SWC	GEOST
4650.0	[m]	SWC	GEOST
4670.0	[m]	SWC	GEOST
4677.0	[m]	SWC	GEOST
4687.0	[m]	SWC	GEOST

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
122	NORDLAND GP
599	UTSIRA FM
908	NO FORMAL NAME
958	HORDALAND GP
958	SKADE FM
1030	NO FORMAL NAME
1256	NO FORMAL NAME
1304	NO FORMAL NAME
1417	GRID FM
1498	NO FORMAL NAME
2100	ROGALAND GP
2100	BALDER FM
2174	SELE FM
2260	LISTA FM
2410	VÅLE FM
2444	SHETLAND GP
2444	HARDRÅDE FM
2472	JORSALFARE FM
2725	KYRRE FM
3223	BLODØKS FM
3243	SVARTE FM
3361	VIKING GP
3361	HEATHER FM
3433	BRENT GP
3433	TARBERT FM



3774	NESS FM
4092	UNDIFFERENTIATED
4123	DUNLIN GP
4123	DRAKE FM
4450	COOK FM
4464	BURTON FM
4556	AMUNDSEN FM

Geochemical information

Document name	Document format	Document size [MB]
2430_1	pdf	0.98
2430_2	pdf	2.40

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

Document name	Document format	Document size [MB]
2430_30_8_1_S_COMPLETION_REPORT_AND_LOG	pdf	17.26

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL	2700	4279
CST	1396	2693
DLL MSFL LDL LSS	1346	4663
FMS	2880	4110
GR	122	1346
LDL CNL	2702	4111
RFT	3567	4093
VELOCITY	520	4688

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	231.0	36	231.0	0.00	LOT
SURF.COND.	18 5/8	1346.0	24	1360.0	0.00	LOT
INTERM.	13 3/8	2701.0	17 1/2	2716.0	0.00	LOT
INTERM.	9 5/8	4319.0	12 1/4	4332.0	0.00	LOT
LINER	7	4688.0	8 3/8	4688.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
556	1.05			water based	
1360	1.20			water based	
1363	1.40	23.0		water based	
1510	1.40	39.0		water based	
2240	1.42	43.0		water based	
2362	1.42	46.0		water based	
2367	1.42	37.0		water based	
2491	1.42	39.0		water based	
2605	1.42	41.0		water based	
2716	1.42	43.0		water based	
3040	1.27	33.0		water based	
3189	1.27	32.0		water based	
3457	1.27	35.0		water based	
3532	1.55	40.0		water based	
3573	1.55	43.0		water based	
3645	1.55	43.0		water based	
3710	1.55	43.0		water based	
3853	1.55	42.0		water based	
3945	1.55	44.0		water based	
4055	1.64	38.0		water based	
4172	1.64	44.0		water based	
4205	1.70	48.0		water based	
4226	1.70	46.0		water based	
4247	1.70	39.0		water based	
4332	1.74	47.0		water based	
4335	1.74	22.0		water based	
4688	2.04	42.0		water 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]
2430 Formation pressure (Formasjonstrykk)	pdf	0.23

