General information

Wellbore name	30/7-8
Type	EXPLORATION
Purpose	APPRAISAL
Status	SUSPENDED
Factmaps in new window	link to map
Main area	NORTH SEA
Field	MARTIN LINGE
Discovery	30/7-6 Martin Linge
Well name	30/7-8
Seismic location	802 - 61 SP. 87.7
Production licence	040
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	269-L
Drilling facility	TREASURE SEEKER
Drilling days	137
Entered date	19.11.1980
Completed date	04.04.1981
Release date	05.07.2016
Publication date	05.07.2016
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	25.0
Water depth [m]	103.0
Total depth (MD) [m RKB]	4287.0
Final vertical depth (TVD) [m RKB]	4287.0
Maximum inclination [°]	6
Bottom hole temperature [°C]	130
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	HEGRE GP
Geodetic datum	ED50
NS degrees	60° 29' 43.08'' N
EW degrees	2° 0' 20.56'' E
NS UTM [m]	6707144.14
EW UTM [m]	445370.62

UTM zone	31
NPDID wellbore	216

Wellbore history

General

Well 30/7-8 was drilled in the Norwegian part of the Shetland Basin. The primary objective was to test the hydrocarbon potential in the Middle Jurassic Brent group, which had previously proved gas and condensate bearing in wells 30/4-2 and 30/7-6. The Early Jurassic Cook Formation and Statfjord Group were secondary targets. The planned TD was 4600 m in the Triassic Red Beds.

Operations and results

Appraisal well 30/7-8 was spudded with the semi-submersible installation Treasure Seeker on 19 November 1980 and drilled to 4287 m in the Middle Jurassic Brent Group . The drill pipe became differentially stuck at 4069 m. After unsuccessful fishing, the well was suspended with top of the fish at 4058 m, and 4287 m became official TD for the well. The well was drilled with seawater and hi-vis pills down to 215 m, with water based "lost circulation mud" from 215 m to 962 m, with gypsum/lignosulphonate mud from 962 m to 2648 m, with a bentonite/lignosulfonate/lignite mud type from 2648 m to TD.

Frequent traces of oil shows were described in many intervals from 1820 m and down to well TD. Most of the shows occurred in limestone stringers and were rated poor. The primary target Middle Jurassic (Bathonian-Bajocian) Brent Group reservoir was encountered at 4066 m. The shows in the Brent Group sandstones were rated good.

Five cores were cut in the well. One was cut in the Draupne Formation from 3888.5 m, while the other four were cut in the Brent Group reservoir section from 4082.3 m to 4129.3 m. No fluid sample was taken.

The well was suspended on 4 April 1980 as a gas/condensate 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]
220.00	4813.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3888.5	3898.4	[m]
2	4082.3	4096.0	[m]
3	4100.8	4107.6	[m]
4	4110.0	4125.7	[m]
5	4126.0	4128.9	[m]
7	4065.0	4075.8	[m]
8	4075.8	4083.0	[m]
9	4083.0	4093.8	[m]
10	4093.8	4105.8	[m]
11	4105.8	4123.9	[m]
12	4123.9	4138.0	[m]
13	4139.0	4148.7	[m]
14	4148.7	4155.5	[m]

Total core sample length [m]	138.4
Cores available for sampling?	YES

Core photos


3888-3891m


3891-3893m


3893-3896m


3896-3898m


4062-4066m


4066-4071m


4071-4075m


4075-4080m


4080-4083m


4082-4085m


4083-4087m


4085-4087m


4087-4090m


4087-4092m


4090-4093m


4092-4093m


4093-4095m


4093-4098m


4095-4096m


4098-4102m


4100-4103m


4102-4105m


4103-4106m


4105-4110m


4106-4107m


4110-4114m


4111-4113m


4113-4116m


4114-4116m


4116-4119m


4119-4121m


4119-4123m


4121-4124m


4123-4123m


4123-4128m


4124-4125m


4126-4128m


4128-4128m


4128-4132m


4132-4137m


4137-4137m


4139-4143m


4143-4148m


4148-4149m


4149-4153m


4153-4155m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1250.0	[m]	DC	GEOCH
1280.0	[m]	DC	GEOCH
1310.0	[m]	DC	GEOCH
1340.0	[m]	DC	GEOCH
1370.0	[m]	DC	GEOCH
1400.0	[m]	DC	GEOCH
1430.0	[m]	DC	GEOCH
1460.0	[m]	DC	GEOCH
1490.0	[m]	DC	GEOCH
1520.0	[m]	DC	GEOCH
1550.0	[m]	DC	GEOCH
1580.0	[m]	DC	GEOCH
1610.0	[m]	DC	GEOCH
1640.0	[m]	DC	GEOCH
1670.0	[m]	DC	GEOCH
1700.0	[m]	DC	GEOCH
1730.0	[m]	DC	GEOCH
1760.0	[m]	DC	GEOCH
1790.0	[m]	DC	GEOCH
1820.0	[m]	DC	GEOCH
1850.0	[m]	DC	GEOCH
1880.0	[m]	DC	GEOCH
1910.0	[m]	DC	GEOCH
1940.0	[m]	DC	GEOCH
1970.0	[m]	DC	GEOCH
2000.0	[m]	DC	GEOCH
2030.0	[m]	DC	GEOCH
2060.0	[m]	DC	GEOCH

2090.0	[m]	DC	GEOCH
2120.0	[m]	DC	GEOCH
2150.0	[m]	DC	GEOCH
2180.0	[m]	DC	GEOCH
2210.0	[m]	DC	GEOCH
2240.0	[m]	DC	GEOCH
2270.0	[m]	DC	GEOCH
2300.0	[m]	DC	GEOCH
2330.0	[m]	DC	GEOCH
2340.0	[m]	DC	GEOCH
2350.0	[m]	DC	GEOCH
2980.0	[m]	DC	IKU
2990.0	[m]	DC	IKU
3160.0	[m]	DC	IKU
3170.0	[m]	DC	IKU
3315.0	[m]	DC	IKU
3365.0	[m]	DC	IKU
3385.0	[m]	DC	IKU
3405.0	[m]	DC	IKU
3425.0	[m]	DC	IKU
3445.0	[m]	DC	IKU
3465.0	[m]	DC	IKU
3485.0	[m]	DC	IKU
3490.0	[m]	DC	IKU
3495.0	[m]	DC	IKU
3500.0	[m]	SWC	IKU
3505.0	[m]	DC	IKU
3520.0	[m]	DC	IKU
3525.0	[m]	SWC	IKU
3534.0	[m]	SWC	IKU
3540.0	[m]	DC	IKU
3543.0	[m]	SWC	IKU
3560.0	[m]	DC	IKU
3567.0	[m]	SWC	IKU
3570.0	[m]	DC	IKU
3573.0	[m]	DC	IKU
3576.0	[m]	SWC	IKU
3586.0	[m]	SWC	IKU
3592.0	[m]	SWC	IKU
3597.0	[m]	SWC	IKU

3600.0	[m]	DC	IKU
3603.8	[m]	SWC	IKU
3616.0	[m]	SWC	IKU
3617.0	[m]	SWC	IKU
3620.0	[m]	DC	IKU
3634.0	[m]	SWC	IKU
3640.0	[m]	DC	IKU
3647.8	[m]	SWC	IKU
3659.0	[m]	SWC	IKU
3660.0	[m]	DC	IKU
3667.0	[m]	SWC	IKU
3670.0	[m]	DC	IKU
3670.0	[m]	SWC	IKU
3676.0	[m]	SWC	IKU
3678.0	[m]	DC	IKU
3679.0	[m]	SWC	IKU
3680.0	[m]	DC	IKU
3692.0	[m]	DC	IKU
3695.0	[m]	SWC	IKU
3697.0	[m]	SWC	IKU
3698.0	[m]	DC	IKU
3705.0	[m]	DC	IKU
3705.0	[m]	SWC	IKU
3708.0	[m]	DC	IKU
3710.0	[m]	SWC	IKU
3715.0	[m]	SWC	IKU
3718.0	[m]	DC	IKU
3718.0	[m]	SWC	IKU
3728.0	[m]	SWC	IKU
3728.0	[m]	DC	IKU
3734.0	[m]	SWC	IKU
3741.0	[m]	DC	IKU
3741.0	[m]	SWC	IKU
3763.0	[m]	DC	IKU
3783.0	[m]	DC	IKU
3795.0	[m]	SWC	IKU
3800.0	[m]	SWC	IKU
3800.0	[m]	DC	IKU
3805.0	[m]	DC	IKU
3808.0	[m]	DC	IKU

3810.0	[m]	DC	IKU
3813.8	[m]	DC	IKU
3815.0	[m]	DC	IKU
3820.0	[m]	DC	IKU
3825.0	[m]	DC	IKU
3830.0	[m]	DC	IKU
3830.0	[m]	SWC	IKU
3835.0	[m]	DC	IKU
3838.5	[m]	SWC	IKU
3840.0	[m]	DC	IKU
3841.0	[m]	SWC	IKU
3845.5	[m]	SWC	IKU
3862.0	[m]	SWC	IKU
3863.0	[m]	DC	IKU
3870.0	[m]	SWC	IKU
3875.0	[m]	SWC	IKU
3888.8	[m]	C	IKU
3889.4	[m]	C	IKU
3891.8	[m]	C	IKU
3892.0	[m]	C	SNEA
3893.5	[m]	C	IKU
3896.2	[m]	C	IKU
3897.3	[m]	C	IKU
3915.0	[m]	SWC	IKU
3920.0	[m]	DC	IKU
3940.0	[m]	DC	IKU
3940.0	[m]	SWC	IKU
3946.0	[m]	SWC	IKU
3960.0	[m]	DC	IKU
3960.0	[m]	SWC	IKU
3980.0	[m]	DC	IKU
3994.0	[m]	SWC	IKU
3999.0	[m]	SWC	IKU
4000.0	[m]	DC	IKU
4000.0	[m]	SWC	IKU
4015.0	[m]	SWC	IKU
4020.0	[m]	DC	IKU
4035.0	[m]	SWC	IKU
4040.0	[m]	DC	IKU
4055.0	[m]	DC	IKU

4063.0	[m]	DC	IKU
4068.0	[m]	DC	IKU
4082.3	[m]	C	IKU
4087.5	[m]	C	IKU
4096.0	[m]	C	IKU
4105.6	[m]	C	IKU
4111.3	[m]	C	SNEA
4112.0	[m]	C	SNEA
4114.9	[m]	C	SNEA
4115.2	[m]	C	IKU
4118.6	[m]	C	SNEA
4121.4	[m]	C	IKU
4123.0	[m]	DC	IKU
4123.3	[m]	C	SNEA
4127.9	[m]	C	IKU
4143.0	[m]	DC	IKU
4163.0	[m]	DC	IKU
4175.0	[m]	DC	IKU
4188.0	[m]	DC	IKU
4208.0	[m]	DC	IKU
4228.0	[m]	DC	IKU
4250.0	[m]	DC	IKU
4268.0	[m]	DC	IKU
4275.0	[m]	DC	IKU
4285.0	[m]	DC	IKU

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
128	NORDLAND GP
442	UTSIRA FM
970	HORDALAND GP
1782	FRIGG FM
1927	ROGALAND GP
1927	BALDER FM
1952	SELE FM
2020	HEIMDAL FM
2090	LISTA FM
2275	VÅLE FM

2328	SHETLAND GP
3799	CROMER KNOLL GP
3807	VIKING GP
3807	DRAUPNE FM
4066	BRENT GP

Geochemical information

Document name	Document format	Document size [MB]
216_1	pdf	0.28
216_2	pdf	1.31

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

Document name	Document format	Document size [MB]
216_01_WDSS_General_Information	pdf	0.10

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

Document name	Document format	Document size [MB]
216_30_7_8_COMPLETION_LOG	pdf	3.26
216_30_7_8_COMPLETION_REPORT	pdf	28.57
216_30_7_8_COMPLETION_REPORT_AND_LOG	pdf	28.57

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	960	4052
CYBERDIP	2633	4049
DIR	3721	4189
FDC CNL	960	4170
HDT	2633	4049
ISF SON	215	4187
ISF SON FDC CNL	961	2646

MWD TELECO	3629	3736
RFT	4067	4068
TEMP	125	3726
VELOCITY	970	4050

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	215.0	36	215.0	0.00	LOT
SURF.COND.	20	962.0	26	1011.0	1.52	LOT
INTERM.	13 3/8	2633.0	17 1/2	2648.0	1.83	LOT
INTERM.	8 5/8	3726.0	12 1/4	3741.0	2.08	LOT
OPEN HOLE		4287.0	8 3/8	4287.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
952	1.40			Waterbased	
1017	1.08			Waterbased	
1572	1.12			Waterbased	
2346	1.26			Waterbased	
2648	1.40			Waterbased	
2654	1.51			Waterbased	
3205	1.63			Waterbased	
3576	1.40			Waterbased	
3611	1.69			Waterbased	
3676	2.03			Waterbased	
3741	1.76			Waterbased	
3807	2.03			Waterbased	
3888	1.96			Waterbased	
4038	2.04			Waterbased	
4082	1.99			Waterbased	
4094	2.09			Waterbased	
4589	2.04			Waterbased	
4812	2.04			Waterbased	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
4067.50	[m]
4079.15	[m]
4064.50	[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]
216_Formation_pressure_(Formasjonstrykk)	pdf	0.18