

**General information**

Wellbore name	34/7-26 SR
Type	EXPLORATION
Purpose	APPRAISAL
Status	PLUGGED
Factmaps in new window	link to map
Main area	NORTH SEA
Field	TORDIS
Discovery	34/7-21 Borg
Well name	34/7-26
Seismic location	
Production licence	089
Drilling operator	Saga Petroleum ASA
Drill permit	902-L2
Drilling facility	SCARABEO 5
Drilling days	26
Entered date	08.01.1998
Completed date	02.02.1998
Plugged date	02.02.1998
Release date	02.02.2000
Publication date	28.02.2008
Purpose - planned	APPRAISAL
Reentry	YES
Reentry activity	DRILLING/PLUGGING
Content	OIL
Discovery wellbore	NO
1st level with HC, age	EARLY CRETACEOUS
1st level with HC, formation	NO FORMAL NAME
2nd level with HC, age	LATE JURASSIC
2nd level with HC, formation	INTRA DRAUPNE FM SS
Kelly bushing elevation [m]	25.0
Water depth [m]	201.0
Total depth (MD) [m RKB]	4690.0
Final vertical depth (TVD) [m RKB]	2658.0
Maximum inclination [°]	59
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	HEATHER FM
Geodetic datum	ED50
NS degrees	61° 16' 29.35" N



EW degrees	2° 7' 11.74" E
NS UTM [m]	6793878.10
EW UTM [m]	452810.97
UTM zone	31
NPDID wellbore	3315

Wellbore history

General

Appraisal well 34/7-26 SR is located in the Tampen area in the Northern North Sea. It is a re-entry of well 34/7-26 S, which was suspended when the rig was needed for clean up work on well 34/7-B-2 H. The well had two primary objectives. Firstly, to perform an optimum data collection programme in the Top Draupne sandstone and in lower Shetland Group sands if these were present. Secondly, if there was thick and good quality Top Draupne sands present, the well was to be long-termed tested for six months to the Gullfaks-C Platform.

Operations and results

Well 34/7-26 S was re-entered (34/7-26 SR) on 2 February 1998 through slot J-3 on Tordis Extension Template, approximately 2500 m south of the discovery well 34/7-21. The well was drilled with the semi-submersible installation Scarabeo 5. New Formation was drilled from below the 9 5/8" casing shoe at 4193 m in the primary well bore to final TD at 4690 m (2657.6 m TVD) in Middle Jurassic sediments of the Heather Formation. Inclination dropped from 59 to 20 deg in about 300 m. There were no particular problems with drilling, but the wire line logging programme was cancelled. Probably due to a severe rat hole below the 9 5/8" casing shoe, it was not possible to get any wire line logging tools into the open hole section. The well bore was drilled all through to TD with a pseudo oil based mud (Ancotec with Novamul).

The Top Cromer Knoll Group was penetrated at 4505 m (2480 m TVD), and consisted of the Rødby Formation from 4505 m to 4512 m and the Mime Formation from 4512 to 4528 m (2486 to 2502 m TVD). Two thin sandstones (approx. 1 and 2 m TVD) were encountered within the Mime Formation. The upper sandstone was grey in colour and bioturbated. The sandstone was dated to the Turonian-Coniacian stage. The lower sandstone exhibited a brown colour, and was bioturbated in the lower part. The lower sandstone was dated to the Middle Albian - early Late Albian stage. Both of the sands exhibited fluorescence. From log analysis, the sands exhibited good porosities, but had low permeabilities due to extensive cementation.

The main reservoir interval, the Intra Draupne Formation sand, came in at (4528 m (2502 m TVD), 24 m TVD shallower than prognosed. The gross thickness of the reservoir was approximately 9 m MD, compared to the prognosed thickness of 35 - 40 m. Net/gross ratio in the reservoir was 70%, average porosity 17.6%, average horizontal permeability 54 mD (from core), and average water saturation 39% (values derived from MWD-logs). Total thickness of the underlying Draupne Formation shale section was 75 m TVD. The Intra Draupne Formation reservoir consisted of bedded dark grey to black sandstones in a background of "allochthonous" black shales. Some lenticular bedding was distinguished in the core. The section was none to weakly bioturbated. The sands exhibited fluorescence. Interpreted from the logs, the best part of the reservoir was in the upper two meters. This section was unfortunately not covered by core.

From the analysis of the logs and the results from the core analysis, it was decided that the criteria for test production were not fulfilled. It was decided to drill a side-track well (34/7-26A) in a position closer to the 34/7-21 well.



No oil water contact was encountered in the well. The deepest oil down-to was observed at approximately 4543 m (2516 m TVD) in the Draupne Formation.

Coring was commenced at 4510 m, 20 m MD above estimated BCU depth. Core #1 jammed after 23 m, and only the upper 10.9 m was recovered. Core #2 started at 4533 m and ended at 4599 m. A total measured thickness of 76.9 m core was recovered. No wire line logs were run and no fluid samples were taken.

The well was plugged back and suspended on 2 February 1998 as an oil appraisal. Since the criteria for a test was not met it was decided side-track well for the test (34/7-26 A), in a position closer to the 34/7-21 well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
4200.00	4689.00

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	4510.0	4521.0	[m]
2	4534.0	4599.0	[m]

Total core sample length [m]	76.0
Cores available for sampling?	YES

Core photos

4510-4515m



4515-4520m



4520-4521m



4533-4538m



4538-4543m



4543-4548m



4548-4553m



4553-4558m



4558-4563m



4563-4568m



4568-4573m



4573-4578m



4578-4583m



4583-4588m



4588-4593m



4593-4598m



4598-4599m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
4533.2	[m]	C	GEOCH
4533.5	[m]	C	GEOCH
4533.9	[m]	C	GEOCH
4534.2	[m]	C	GEOCH
4534.6	[m]	C	GEOCH
4535.1	[m]	C	GEOCH
4535.4	[m]	C	GEOCH
4535.8	[m]	C	GEOCH
4536.4	[m]	C	GEOCH
4536.8	[m]	C	GEOCH
4537.5	[m]	C	GEOCH
4537.7	[m]	C	GEOCH
4538.3	[m]	C	GEOCH
4538.8	[m]	C	GEOCH
4539.3	[m]	C	GEOCH
4539.6	[m]	C	GEOCH



4540.5 [m]	C	GEOCH
4541.5 [m]	C	GEOCH
4541.8 [m]	C	GEOCH
4542.3 [m]	C	GEOCH
4543.0 [m]	C	GEOCH
4543.7 [m]	C	GEOCH
4544.2 [m]	C	GEOCH
4548.1 [m]	C	GEOCH
4549.3 [m]	C	GEOCH
4551.5 [m]	C	GEOCH
4552.9 [m]	C	GEOCH
4553.1 [m]	C	GEOCH
4553.1 [m]	C	GEOCH
4554.1 [m]	C	GEOCH
4554.5 [m]	C	GEOCH
4555.1 [m]	C	GEOCH
4555.8 [m]	C	GEOCH
4557.0 [m]	C	GEOCH
4557.8 [m]	C	GEOCH
4558.7 [m]	C	GEOCH
4559.5 [m]	C	GEOCH
4560.5 [m]	C	GEOCH
4561.5 [m]	C	GEOCH
4562.7 [m]	C	GEOCH
4563.8 [m]	C	GEOCH
4564.5 [m]	C	GEOCH
4565.5 [m]	C	GEOCH
4566.2 [m]	C	GEOCH
4567.5 [m]	C	GEOCH
4568.0 [m]	C	GEOCH
4569.2 [m]	C	GEOCH
4571.8 [m]	C	GEOCH
4572.7 [m]	C	GEOCH
4572.8 [m]	C	GEOCH
4573.7 [m]	C	GEOCH
4574.8 [m]	C	GEOCH
4575.6 [m]	C	GEOCH
4576.6 [m]	C	GEOCH
4577.5 [m]	C	GEOCH
4578.3 [m]	C	GEOCH



4579.4 [m]	C	GEOCH
4580.8 [m]	C	GEOCH
4581.6 [m]	C	GEOCH
4582.5 [m]	C	GEOCH
4583.6 [m]	C	GEOCH
4584.7 [m]	C	GEOCH
4585.4 [m]	C	GEOCH
4586.2 [m]	C	GEOCH
4587.5 [m]	C	GEOCH
4588.3 [m]	C	GEOCH
4589.8 [m]	C	GEOCH
4590.8 [m]	C	GEOCH
4591.5 [m]	C	GEOCH
4592.5 [m]	C	GEOCH
4593.3 [m]	C	GEOCH
4594.3 [m]	C	GEOCH
4595.5 [m]	C	GEOCH
4595.7 [m]	C	GEOCH
4596.2 [m]	C	GEOCH
4596.5 [m]	C	GEOCH
4597.1 [m]	C	GEOCH
4597.4 [m]	C	GEOCH
4598.9 [m]	C	GEOCH

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
226	NORDLAND GP
1300	UTSIRA FM
1338	HORDALAND GP
1555	NO FORMAL NAME
1617	NO FORMAL NAME
1665	NO FORMAL NAME
1867	NO FORMAL NAME
1980	NO FORMAL NAME
2098	NO FORMAL NAME
2187	NO FORMAL NAME
2223	NO FORMAL NAME
2896	ROGALAND GP



2896	BALDER FM
3016	LISTA FM
3340	SHETLAND GP
3340	JORSALFARE FM
3866	KYRRE FM
4505	CROMER KNOLL GP
4505	RØDBY FM
4512	MIME FM
4528	VIKING GP
4528	INTRA DRAUPNE FM SS
4537	DRAUPNE FM
4610	HEATHER FM

Geochemical information

Document name	Document format	Document size [MB]
3315_1	pdf	0.18
3315_2	pdf	6.04

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

Document name	Document format	Document size [MB]
3315_34_7_26_SR_COMPLETION_LOG	pdf	2.83
3315_34_7_26_SR_COMPLETION_REPORT	pdf	27.38

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - GR RES DIR	4173	4684
MWD - TC SONIC	4173	4684

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
INTERM.	9 5/8	4181.0	12 1/4	4183.0	0.00	LOT





OPEN HOLE		4690.0	8 1/2	4690.0	0.00	LOT
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