



## General information

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Wellbore name                      | 35/9-4 S                          |
| Type                               | EXPLORATION                       |
| Purpose                            | APPRAISAL                         |
| Status                             | JUNKED                            |
| Factmaps in new window             | <a href="#">link to map</a>       |
| Main area                          | NORTH SEA                         |
| Field                              | <a href="#">GJØA</a>              |
| Discovery                          | <a href="#">35/9-2</a>            |
| Well name                          | 35/9-4                            |
| Seismic location                   | NH 9301-inline 1156 & x-line 1642 |
| Production licence                 | <a href="#">153</a>               |
| Drilling operator                  | Norsk Hydro Produksjon AS         |
| Drill permit                       | 930-L                             |
| Drilling facility                  | <a href="#">TRANSOCEAN LEADER</a> |
| Drilling days                      | 31                                |
| Entered date                       | 13.07.1998                        |
| Completed date                     | 12.08.1998                        |
| Plugged and abandon date           | 12.08.1998                        |
| Release date                       | 12.08.2000                        |
| Publication date                   | 15.12.2006                        |
| Purpose - planned                  | APPRAISAL                         |
| Reentry                            | NO                                |
| Content                            | NOT APPLICABLE                    |
| Discovery wellbore                 | NO                                |
| Kelly bushing elevation [m]        | 23.5                              |
| Water depth [m]                    | 364.0                             |
| Total depth (MD) [m RKB]           | 1261.0                            |
| Final vertical depth (TVD) [m RKB] | 1261.0                            |
| Oldest penetrated age              | PALEOCENE                         |
| Oldest penetrated formation        | LISTA FM                          |
| Geodetic datum                     | ED50                              |
| NS degrees                         | 61° 19' 32.5" N                   |
| EW degrees                         | 3° 57' 55.23" E                   |
| NS UTM [m]                         | 6799609.42                        |
| EW UTM [m]                         | 551677.16                         |
| UTM zone                           | 31                                |
| NPDID wellbore                     | 3524                              |



## Wellbore history

### General

Well 35/9-4 S was the sixth exploration well in the license and should appraise the hydrocarbon potential of the A South structure on the Gj øa Discovery. The primary target was sands of the Sognefjord and Fensfjord Formations, which were expected to be in full internal communication and with common fluid contacts.

### Operations and results

Well 35/9-4 S was spudded with the semi-submersible installation Transocean Leader on 13 July 1998 and drilled to TD at 1261 m in the Paleocene Lista Formation. A 36" hole was drilled to 451 m, and the 30" conductor set at 449 m. The 17 1/2" hole section was drilled riserless to 1261 m. During running of the 13 3/8" casing, water flow was observed in the wellhead area. The casing was set at 1255.5 m, and the riser and BOP were installed. The water flow increased in magnitude and amount, and a successful killing operation was carried out. The well was drilled with seawater and hi-vis pills from top to TD.

The well objective was not fulfilled as the well was terminated due to the shallow water flow. The source of the shallow water flow was found to be a quaternary sand-rich interval between 559 m and 600 m, and with a significant contribution from an intra Lista Formation sand at 903 m. No cores were cut and no fluid samples taken in the well.

The well was permanently abandoned on 12 August 1998 as a junked well.

### Testing

No drill stem test was performed

## Lithostratigraphy

| Top depth<br>[mMD RKB] | Lithostrat. unit               |
|------------------------|--------------------------------|
| 388                    | <a href="#">NORDLAND GP</a>    |
| 559                    | <a href="#">HORDALAND GP</a>   |
| 605                    | <a href="#">ROGALAND GP</a>    |
| 605                    | <a href="#">BALDER FM</a>      |
| 642                    | <a href="#">SELE FM</a>        |
| 723                    | <a href="#">LISTA FM</a>       |
| 832                    | <a href="#">NO FORMAL NAME</a> |
| 843                    | <a href="#">LISTA FM</a>       |
| 875                    | <a href="#">NO FORMAL NAME</a> |
| 987                    | <a href="#">LISTA FM</a>       |

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





| Document name                                   | Document format | Document size [MB] |
|-------------------------------------------------|-----------------|--------------------|
| <a href="#">3524_35_9_4_S_COMPLETION_REPORT</a> | .pdf            | 28.77              |

## Logs

| Log type         | Log top depth [m] | Log bottom depth [m] |
|------------------|-------------------|----------------------|
| CBL VDL GR       | 389               | 1254                 |
| MWD - GR RES DIR | 389               | 1261                 |
| TDT              | 389               | 1254                 |
| TEMPERATURE      | 389               | 1261                 |

## 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                  | 449.0            | 36                | 451.0          | 0.00                     | LOT                 |
| SURF.COND.  | 13 3/8              | 1255.0           | 17 1/2            | 1261.0         | 0.00                     | LOT                 |

## Drilling mud

| Depth MD [m] | Mud weight [g/cm3] | Visc. [mPa.s] | Yield point [Pa] | Mud type    | Date measured |
|--------------|--------------------|---------------|------------------|-------------|---------------|
| 445          | 1.60               | 18.0          |                  | WATER BASED |               |
| 451          | 1.03               |               |                  | WATER BASED |               |
| 460          | 1.60               | 18.0          |                  | WATER BASED |               |
| 510          | 2.04               | 16.0          |                  | WATER BASED |               |
| 1261         | 1.60               | 18.0          |                  | WATER BASED |               |

