



## Generell informasjon

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| Brønnbane navn                           | 34/10-52 A                              |
| Type                                     | EXPLORATION                             |
| Formål                                   | WILDCAT                                 |
| Status                                   | P&A                                     |
| Pressemelding                            | <a href="#">lenke til pressemelding</a> |
| Faktakart i nytt vindu                   | <a href="#">lenke til kart</a>          |
| Hovedområde                              | NORTH SEA                               |
| Felt                                     | <a href="#">GULLFAKS SØR</a>            |
| Funn                                     | <a href="#">34/10-52 A</a>              |
| Brønn navn                               | 34/10-52                                |
| Seismisk lokalisering                    |                                         |
| Utvinningstillatelse                     | <a href="#">050</a>                     |
| Boreoperatør                             | Statoil Petroleum AS                    |
| Boretillatelse                           | 1369-L                                  |
| Boreinnretning                           | <a href="#">DEEPSEA ATLANTIC</a>        |
| Boredager                                | 50                                      |
| Borestart                                | 18.06.2011                              |
| Boreslutt                                | 06.08.2011                              |
| Frigitt dato                             | 06.08.2013                              |
| Publiseringsdato                         | 06.08.2013                              |
| Opprinnelig formål                       | WILDCAT                                 |
| Gjenåpnet                                | NO                                      |
| Innhold                                  | OIL/GAS                                 |
| Funnbrønnbane                            | YES                                     |
| 1. nivå med hydrokarboner, alder         | MIDDLE JURASSIC                         |
| 1. nivå med hydrokarboner, formasjon.    | TARBERT FM                              |
| 2. nivå med hydrokarboner, alder         | MIDDLE JURASSIC                         |
| 2. nivå med hydrokarboner, formasjon     | NESS FM                                 |
| Avstand, boredekk - midlere havflate [m] | 32.0                                    |
| Vanndybde ved midlere havflate [m]       | 134.0                                   |
| Totalt målt dybde (MD) [m RKB]           | 3520.0                                  |
| Totalt vertikalt dybde (TVD) [m RKB]     | 3472.0                                  |
| Maks inklinasjon [°]                     | 16.6                                    |
| Temperatur ved bunn av brønnbanen [°C]   | 127                                     |



|                             |                 |
|-----------------------------|-----------------|
| Eldste penetrerte alder     | EARLY JURASSIC  |
| Eldste penetrerte formasjon | DRAKE FM        |
| Geodetisk datum             | ED50            |
| NS grader                   | 61° 4' 14.75" N |
| ØV grader                   | 2° 11' 31.5" E  |
| NS UTM [m]                  | 6771099.11      |
| ØV UTM [m]                  | 456398.97       |
| UTM sone                    | 31              |
| NPDID for brønnbanen        | 6657            |

## Brønnhistorie



## General

Well 34/10-52 A was drilled on the 10A and 10B fault segments in the southern part of the Gullfaks Sør field, located in the northern part of the North Sea. This was the first well to be drilled on these segments, and the objective for well was to prove hydrocarbons and further production potential in the Gullfaks Sør Brent Group and to support decisions on future development in the Gullfaks Sør area.

## Operations and results

Wildcat well 34/10-52 A was spudded with the semi-submersible installation Deepsea Atlantic on 18 June 2011 and drilled to TD at 3520 m (3472 m TVD) in the Early Jurassic Drake Formation. It was drilled vertical down to 2150 m, then building angle up to ca 16 deg and keeping that angle down to TD. No significant technical problem was encountered in the operations. The well was drilled with sea water and hi-vis sweeps down to 245 m, with spud mud and hi-vis sweeps from 245 m to 300 m, with Polymer WBM from 300 m to 796 m, with Glydril WBM from 796 m to 2162 m, and with Versatec OBM from 2162 m to TD.

Well 34/10-52 A penetrated an incomplete Brent Group package in the Gullfaks Sør segment 10B, parts of the Tarbert and Rannoch Formations were faulted out. BCU came in at 3228 m (3191.9 m TVD), 44 m deeper than prognosed and top Brent Group came in at 3282 m (3243.8 m TVD), 91m deeper than prognosed. Initial pore pressure was measured throughout the whole Brent Group except for a smaller interval in the Ness Formation that had approximately 20 bars lower pressure. No hydrocarbon contacts were observed in the well, only down-to situations. Gas-down-to 3287 m (3249 m TVD) and oil-down-to 3314.5 m (3275 m TVD) were observed in Tarbert. Gas was observed in Ness. A WUT was observed at 3324 m (3284 m TVD). No oil shows were recorded due to the use of OBM.

No cores were taken. Wire line MRSC and MPSR fluid samples were taken at 3285.0 m (gas condensate), 3291.5 m (oil), 3320.5 m (gas condensate), and at 3328.0 m (water).

No cores were cut and no wire line fluid samples were taken.

The A well was permanently abandoned on 6 August 2011 as an oil and gas discovery. In order to clarify the resource potential, hydrocarbon distribution and pressure conditions in segment 10A a sidetrack was initiated, called 34/10-52 B.

## Testing

No drill stem test was performed.

## Litostratigrafi

| Topp Dyb<br>[mMD RKB] | Litostrat. enhet             |
|-----------------------|------------------------------|
| 166                   | <a href="#">NORDLAND GP</a>  |
| 947                   | <a href="#">UTSIRA FM</a>    |
| 974                   | <a href="#">HORDALAND GP</a> |
| 1851                  | <a href="#">ROGALAND GP</a>  |
| 1851                  | <a href="#">BALDER FM</a>    |
| 1917                  | <a href="#">LISTA FM</a>     |
| 2078                  | <a href="#">SHETLAND GP</a>  |



|      |                                 |
|------|---------------------------------|
| 3144 | <a href="#">CROMER KNOLL GP</a> |
| 3228 | <a href="#">VIKING GP</a>       |
| 3228 | <a href="#">DRAUPNE FM</a>      |
| 3230 | <a href="#">HEATHER FM</a>      |
| 3282 | <a href="#">BRENT GP</a>        |
| 3282 | <a href="#">TARBERT FM</a>      |
| 3314 | <a href="#">NESS FM</a>         |
| 3442 | <a href="#">ETIVE FM</a>        |
| 3445 | <a href="#">RANNOCH FM</a>      |
| 3470 | <a href="#">DUNLIN GP</a>       |
| 3470 | <a href="#">DRAKE FM</a>        |

**Logger**

| Type logg                         | Topp dyp<br>for logg [m] | Bunn dyp for<br>logg [m] |
|-----------------------------------|--------------------------|--------------------------|
| CBL GR                            | 210                      | 760                      |
| CBL USIT GR                       | 700                      | 2120                     |
| CBL USIT GR                       | 2900                     | 3061                     |
| GPIT PPC MSIP PPC GR              | 2100                     | 3101                     |
| MSIP PPC1                         | 2200                     | 3520                     |
| MWD - ARCVRES9 PP                 | 300                      | 2162                     |
| MWD - PD ARCVRES8 TELE VADN8      | 2162                     | 3101                     |
| PD XCEED-ECO TELE STETH<br>SONVIS | 3101                     | 3520                     |
| PPCI EMS GR                       | 250                      | 791                      |

**Foringsrør og formasjonsstyrketester**

| Type utforing | Utforing<br>diam.<br>[tommer] | Utforing<br>dybde<br>[m] | Brønnbane<br>diam.<br>[tommer] | Brønnbane<br>dyp<br>[m] | LOT/FIT slam<br>eqv.<br>[g/cm3] | Type<br>formasjonstest |
|---------------|-------------------------------|--------------------------|--------------------------------|-------------------------|---------------------------------|------------------------|
| CONDUCTOR     | 30                            | 240.0                    | 36                             | 245.0                   | 1.28                            | LOT                    |
| SURF.COND.    | 20                            | 296.0                    | 26                             | 300.0                   | 0.00                            | LOT                    |
| INTERM.       | 16                            | 760.0                    | 20                             | 796.0                   | 1.52                            | LOT                    |
| INTERM.       | 13 3/8                        | 2152.0                   | 17 1/2                         | 2162.0                  | 1.60                            | LOT                    |
| INTERM.       | 9 5/8                         | 3100.0                   | 12 1/4                         | 3101.0                  | 1.91                            | LOT                    |
| OPEN HOLE     |                               | 3520.0                   | 8 1/2                          | 3520.0                  | 0.00                            | LOT                    |