



## Generell informasjon

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Brønnbane navn                           | 6608/10-3 R                      |
| Type                                     | EXPLORATION                      |
| Formål                                   | APPRAISAL                        |
| Status                                   | P&A                              |
| Faktakart i nytt vindu                   | <a href="#">lenke til kart</a>   |
| Hovedområde                              | NORWEGIAN SEA                    |
| Felt                                     | <a href="#">NORNE</a>            |
| Funn                                     | <a href="#">6608/10-2 Norne</a>  |
| Brønn navn                               | 6608/10-3                        |
| Seismisk lokalisering                    | B-18-83 & SP. 1345               |
| Utvinningstillatelse                     | <a href="#">128</a>              |
| Boreoperatør                             | Den norske stats oljeselskap a.s |
| Boretillatelse                           | 753-L2                           |
| Boreinnretning                           | <a href="#">ROSS ISLE</a>        |
| Boredager                                | 10                               |
| Borestart                                | 08.08.1995                       |
| Boreslutt                                | 17.08.1995                       |
| Plugget og forlatt dato                  | 17.08.1995                       |
| Frigitt dato                             | 17.08.1997                       |
| Publiseringsdato                         | 24.09.2002                       |
| Opprinnelig formål                       | APPRAISAL                        |
| Gjenåpnet                                | YES                              |
| Årsak til gjenåpning                     | TESTING/PLUGGING                 |
| Innhold                                  | OIL/GAS                          |
| Funnbrønnbane                            | NO                               |
| 1. nivå med hydrokarboner, alder         | MIDDLE JURASSIC                  |
| 1. nivå med hydrokarboner, formasjon.    | FANGST GP                        |
| 2. nivå med hydrokarboner, alder         | EARLY JURASSIC                   |
| 2. nivå med hydrokarboner, formasjon     | BÅT GP                           |
| Avstand, boredekk - midlere havflate [m] | 23.0                             |
| Vanndybde ved midlere havflate [m]       | 382.0                            |
| Totalt målt dybde (MD) [m RKB]           | 2921.0                           |
| Totalt vertikalt dybde (TVD) [m RKB]     | 2919.5                           |
| Maks inklinasjon [°]                     | 5.5                              |



|                                        |                |
|----------------------------------------|----------------|
| Temperatur ved bunn av brønnbanen [°C] | 115            |
| Eldste penetrerte alder                | EARLY JURASSIC |
| Eldste penetrerte formasjon            | ÅRE FM         |
| Geodetisk datum                        | ED50           |
| NS grader                              | 66° 2' 6.66" N |
| ØV grader                              | 8° 4' 57.97" E |
| NS UTM [m]                             | 7324321.37     |
| ØV UTM [m]                             | 458426.47      |
| UTM sone                               | 32             |
| NPDID for brønnbanen                   | 2645           |

## Brønnhistorie

### General

The main objective of well 6608/10-3 was to appraise oil accumulation in the Jurassic Fangst and Båt groups in the Northern Fault Block on the Norne field off shore Mid Norway.

### Operations and results

Appraisal well 6608/10-3 was spudded by the semi-submersible installation "Ross Rig" on 7 January 1993 and drilled to a total depth of 2921 m, into rocks of Lower Jurassic age. The well was drilled water based. Seawater/bentonite spud mud was used down to 469 m, seawater/CMC EHV spud mud from 469 m to 874 m, and Gyp/PAC polymer mud from 874 m to TD. Oil and gas was encountered in the Early to Middle Jurassic Båt and Fangst Groups. Eleven cores were cut in the interval 2560 m to 2765 m, from the lower part of the Melke Formation, through the Fangst Group and into the Tilje Formation of the Båt Group. Four segregated FMT samples were taken at 2599.2 m in the Garn Formation (gas, mud filtrate, and small amount of oil), 2603.2 m in the Garn Formation (mud filtrate, gas, and oil), 2624.5 m in the Ile Formation (gas, and oil), and at 2715.2 in the Tilje Formation (mud filtrate and water with small amount of gas). The well was suspended on 11 March as an oil and gas appraisal well. The well was re-entered on 8 August 1995 with the semi-submersible installation "Ross Isle". The re-entry, 6608/10-3 R, was permanently plugged and abandoned as an oil and gas appraisal well.

### Testing

One drill stem test was performed in well 6608/10-3 in the Ile Formation (perforated interval 2617-2648 m). The well produced 1250 Sm<sup>3</sup>/D of oil with a density of 860 kg/m<sup>3</sup> at standard conditions and 102500 Sm<sup>3</sup>/D of gas with a relative density of 0.65 (air=1.0) through a 60/64" (23.44 mm) choke.

## Litostratigrafi

| Topp Dyb<br>[mMD RKB] | Litostrat. enhet            |
|-----------------------|-----------------------------|
| 402                   | <a href="#">NORDLAND GP</a> |
| 402                   | <a href="#">NAUST FM</a>    |



|      |                                 |
|------|---------------------------------|
| 1368 | <a href="#">KAI FM</a>          |
| 1592 | <a href="#">HORDALAND GP</a>    |
| 1592 | <a href="#">BRYGGE FM</a>       |
| 1858 | <a href="#">ROGALAND GP</a>     |
| 1858 | <a href="#">TARE FM</a>         |
| 1915 | <a href="#">TANG FM</a>         |
| 1951 | <a href="#">SHETLAND GP</a>     |
| 1951 | <a href="#">SPRINGAR FM</a>     |
| 2131 | <a href="#">NISE FM</a>         |
| 2394 | <a href="#">CROMER KNOLL GP</a> |
| 2394 | <a href="#">LYR FM</a>          |
| 2407 | <a href="#">VIKING GP</a>       |
| 2407 | <a href="#">SPEKK FM</a>        |
| 2413 | <a href="#">MELKE FM</a>        |
| 2574 | <a href="#">FANGST GP</a>       |
| 2574 | <a href="#">GARN FM</a>         |
| 2610 | <a href="#">NOT FM</a>          |
| 2617 | <a href="#">ILE FM</a>          |
| 2657 | <a href="#">BÅT GP</a>          |
| 2657 | <a href="#">TOFTE FM</a>        |
| 2712 | <a href="#">TILJE FM</a>        |
| 2791 | <a href="#">ÅRE FM</a>          |

**Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)**

| Dokument navn                                      | Dokument format | Dokument størrelse [KB] |
|----------------------------------------------------|-----------------|-------------------------|
| <a href="#">2645_6608_10_3_R_COMPLETION_REPORT</a> | pdf             | 1.89                    |

**Borestrengtester (DST)**

| Test nummer | Fra dybde MD [m] | Til dybde MD [m] | Reduksjonsventil størrelse [mm] |
|-------------|------------------|------------------|---------------------------------|
| 1.0         | 1810             | 1842             | 46.0                            |

| Test nummer | Endelig avstengningstrykk [MPa] | Endelig strømningstrykk [MPa] | Bunnhullstrykk [MPa] | Borehullstemperatur [°C] |
|-------------|---------------------------------|-------------------------------|----------------------|--------------------------|
| 1.0         |                                 |                               |                      |                          |





| Test nummer | Olje produksjon [Sm3/dag] | Gass produksjon [Sm3/dag] | Oljetetthet [g/cm3] | Gasstyngde rel. luft | GOR [m3/m3] |
|-------------|---------------------------|---------------------------|---------------------|----------------------|-------------|
| 1.0         |                           |                           |                     |                      |             |