



## Generell informasjon

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| Brønnbane navn                           | 25/11-9                                    |
| Type                                     | EXPLORATION                                |
| Formål                                   | APPRAISAL                                  |
| Status                                   | P&A                                        |
| Faktakart i nytt vindu                   | <a href="#">lenke til kart</a>             |
| Hovedområde                              | NORTH SEA                                  |
| Felt                                     | <a href="#">BALDER</a>                     |
| Funn                                     | <a href="#">25/11-1 Balder</a>             |
| Brønn navn                               | 25/11-9                                    |
| Seismisk lokalisering                    | 218 SP.227                                 |
| Utvinningstillatelse                     | <a href="#">001</a>                        |
| Boreoperatør                             | Esso Exploration and Production Norway A/S |
| Boretillatelse                           | 266-L                                      |
| Boreinnretning                           | <a href="#">NORSKALD</a>                   |
| Boredager                                | 34                                         |
| Borestart                                | 04.11.1980                                 |
| Boreslutt                                | 07.12.1980                                 |
| Frigitt dato                             | 07.12.1982                                 |
| Publiseringsdato                         | 30.04.2010                                 |
| Opprinnelig formål                       | APPRAISAL                                  |
| Gjenåpnet                                | NO                                         |
| Innhold                                  | OIL/GAS                                    |
| Funnbrønnbane                            | NO                                         |
| 1. nivå med hydrokarboner, alder         | EOCENE                                     |
| 1. nivå med hydrokarboner, formasjon.    | INTRA BALDER FM SS                         |
| 2. nivå med hydrokarboner, alder         | PALEOCENE                                  |
| 2. nivå med hydrokarboner, formasjon     | HERMOD FM                                  |
| Avstand, boredekk - midlere havflate [m] | 25.0                                       |
| Vanndybde ved midlere havflate [m]       | 126.0                                      |
| Totalt målt dybde (MD) [m RKB]           | 1910.0                                     |
| Totalt vertikalt dybde (TVD) [m RKB]     | 1910.0                                     |
| Temperatur ved bunn av brønnbanen [°C]   | 57                                         |
| Eldste penetrerte alder                  | LATE CRETACEOUS                            |
| Eldste penetrerte formasjon              | TOR FM                                     |



|                      |                  |
|----------------------|------------------|
| Geodetisk datum      | ED50             |
| NS grader            | 59° 10' 14.02" N |
| ØV grader            | 2° 22' 30.84" E  |
| NS UTM [m]           | 6559363.15       |
| ØV UTM [m]           | 464281.94        |
| UTM sone             | 31               |
| NPDID for brønnbanen | 213              |

## Brønnhistorie

### General

Well 25/11-9 was drilled ca km west-south west of the 25/11-1 Balder discovery well on the Utsira High in the North Sea. The objective was to establish the presence of a thick accumulation of oil sand in the southern part of the Balder Field, and to confirm the reservoir quality of Lobe 8 penetrated in the 25/11-5 well. The top of the reservoir was anticipated to be at 1688 m subsea.

### Operations and results

Appraisal well 25/11-9 was spudded with the semi-submersible installation Norskald on 4 November 1980 and drilled to TD at 1910 m in the Late Cretaceous Tor Formation. The well was drilled with Seawater/Gel/Lignosulphonate.

The well penetrated the Utsira Formation and several Skade Formation sands and then penetrated a ca 560 m thick section of shale/mudstone/siltstone belonging to the lower Hordaland Group before top Balder Formation was encountered at 1670 m. Drilling revealed two oil sand zones, one of Eocene age between 1708.5 m and 1742 m (Intra Balder Formation sand), the second of Paleocene age (Hermod Formation) between 1781 m and 1785 m, which is the Balder Field oil-water contact. A few thin sands in the upper Balder Formation from 1671 m to 1694 m also appeared to be oil bearing. A second Hermod Formation from 1789 to 1818 m was water wet with some weak shows.

Four conventional cores were attempted in the interval 1718 to 1744 m in the Intra Balder Formation Sandstone, but only 3.5 m from the first and 1.5 m from the last core was retrieved. No wire line fluid samples were taken.

The well was permanently abandoned on 7 December 1980 as an oil appraisal well.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

|                               |                               |
|-------------------------------|-------------------------------|
| Borekaksprøve, topp dybde [m] | Borekaksprøve, bunn dybde [m] |
| 220.00                        | 1910.00                       |

|                                        |     |
|----------------------------------------|-----|
| Borekaks tilgjengelig for prøvetaking? | YES |
|----------------------------------------|-----|



### Borekjerne i Sokkeldirektoratet

| Kjerneprøve nummer | Kjerneprøve - topp dybde | Kjerneprøve - bunn dybde | Kjerneprøve dybde - enhet |
|--------------------|--------------------------|--------------------------|---------------------------|
| 1                  | 1718.0                   | 1721.5                   | [m ]                      |
| 4                  | 1734.0                   | 1735.0                   | [m ]                      |

|                                       |     |
|---------------------------------------|-----|
| Total kjerneprøve lengde [m]          | 4.5 |
| Kjerner tilgjengelig for prøvetaking? | YES |

### Palynologiske preparater i Sokkeldirektoratet

| Prøve dybde | Dybde enhet | Prøve type | Laboratorie |
|-------------|-------------|------------|-------------|
| 1250.0      | [m]         | SWC        |             |
| 1300.0      | [m]         | SWC        |             |
| 1310.0      | [m]         | SWC        |             |
| 1320.0      | [m]         | SWC        |             |
| 1378.0      | [m]         | SWC        |             |
| 1405.0      | [m]         | SWC        |             |
| 1450.0      | [m]         | SWC        |             |
| 1500.0      | [m]         | SWC        |             |
| 1557.0      | [m]         | SWC        |             |
| 1600.0      | [m]         | SWC        |             |
| 1630.0      | [m]         | SWC        |             |
| 1649.0      | [m]         | DC         |             |
| 1661.0      | [m]         | DC         |             |
| 1673.0      | [m]         | DC         |             |
| 1679.0      | [m]         | DC         |             |
| 1690.0      | [m]         | SWC        |             |
| 1695.0      | [m]         | SWC        |             |
| 1705.0      | [m]         | SWC        |             |
| 1712.0      | [m]         | SWC        |             |
| 1718.0      | [m]         | SWC        |             |
| 1723.0      | [m]         | SWC        |             |
| 1725.0      | [m]         | SWC        |             |
| 1728.0      | [m]         | SWC        |             |
| 1730.0      | [m]         | SWC        |             |
| 1733.0      | [m]         | SWC        |             |
| 1743.0      | [m]         | SWC        |             |



# Faktasider

## Brønnbane / Leting

Utskriftstidspunkt: 13.5.2024 - 11:55

|            |     |  |
|------------|-----|--|
| 1748.0 [m] | SWC |  |
| 1752.0 [m] | SWC |  |
| 1755.0 [m] | SWC |  |
| 1760.0 [m] | SWC |  |
| 1765.0 [m] | SWC |  |
| 1770.0 [m] | SWC |  |
| 1772.0 [m] | DC  |  |
| 1778.0 [m] | DC  |  |
| 1782.0 [m] | SWC |  |
| 1784.0 [m] | DC  |  |
| 1787.0 [m] | SWC |  |
| 1790.0 [m] | SWC |  |
| 1790.0 [m] | DC  |  |
| 1805.0 [m] | SWC |  |
| 1820.0 [m] | SWC |  |
| 1820.0 [m] | DC  |  |
| 1825.0 [m] | SWC |  |
| 1826.0 [m] | DC  |  |
| 1832.0 [m] | DC  |  |
| 1835.0 [m] | SWC |  |
| 1838.0 [m] | DC  |  |
| 1841.0 [m] | DC  |  |
| 1845.0 [m] | SWC |  |
| 1847.0 [m] | DC  |  |
| 1853.0 [m] | DC  |  |
| 1855.0 [m] | SWC |  |
| 1859.0 [m] | DC  |  |
| 1865.0 [m] | SWC |  |
| 1865.0 [m] | DC  |  |
| 1870.0 [m] | DC  |  |
| 1875.0 [m] | SWC |  |
| 1877.0 [m] | DC  |  |
| 1885.0 [m] | SWC |  |
| 1889.0 [m] | DC  |  |
| 1889.0 [m] | DC  |  |
| 1895.0 [m] | SWC |  |
| 1901.0 [m] | DC  |  |
| 1910.0 [m] | DC  |  |



**Litostratigrafi**

| Topp Dyb<br>[mMD RKB] | Litostrat. enhet                   |
|-----------------------|------------------------------------|
| 151                   | <a href="#">NORDLAND GP</a>        |
| 620                   | <a href="#">UTSIRA FM</a>          |
| 745                   | <a href="#">NO FORMAL NAME</a>     |
| 770                   | <a href="#">HORDALAND GP</a>       |
| 770                   | <a href="#">SKADE FM</a>           |
| 935                   | <a href="#">NO FORMAL NAME</a>     |
| 1000                  | <a href="#">SKADE FM</a>           |
| 1022                  | <a href="#">NO FORMAL NAME</a>     |
| 1040                  | <a href="#">SKADE FM</a>           |
| 1045                  | <a href="#">NO FORMAL NAME</a>     |
| 1077                  | <a href="#">SKADE FM</a>           |
| 1112                  | <a href="#">NO FORMAL NAME</a>     |
| 1670                  | <a href="#">ROGALAND GP</a>        |
| 1670                  | <a href="#">BALDER FM</a>          |
| 1713                  | <a href="#">INTRA BALDER FM SS</a> |
| 1741                  | <a href="#">BALDER FM</a>          |
| 1768                  | <a href="#">SELE FM</a>            |
| 1782                  | <a href="#">HERMOD FM</a>          |
| 1783                  | <a href="#">SELE FM</a>            |
| 1789                  | <a href="#">HERMOD FM</a>          |
| 1818                  | <a href="#">SELE FM</a>            |
| 1825                  | <a href="#">LISTA FM</a>           |
| 1855                  | <a href="#">HEIMDAL FM</a>         |
| 1863                  | <a href="#">LISTA FM</a>           |
| 1882                  | <a href="#">VÅLE FM</a>            |
| 1887                  | <a href="#">SHETLAND GP</a>        |
| 1887                  | <a href="#">EKOFISK FM</a>         |
| 1902                  | <a href="#">TOR FM</a>             |

**Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter**

| Dokument navn                                   | Dokument format | Dokument størrelse [KB] |
|-------------------------------------------------|-----------------|-------------------------|
| <a href="#">213_01_WDSS_General_Information</a> | pdf             | 0.12                    |
| <a href="#">213_02_WDSS_completion_log</a>      | pdf             | 0.15                    |





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

| Dokument navn                                    | Dokument format | Dokument størrelse [KB] |
|--------------------------------------------------|-----------------|-------------------------|
| <a href="#">213 01 25 11 9 Completion log</a>    | pdf             | 1.40                    |
| <a href="#">213 01 25 11 9 Completion Report</a> | pdf             | 3.91                    |

Logger

| Type logg        | Topp dyp for logg [m] | Bunn dyp for logg [m] |
|------------------|-----------------------|-----------------------|
| CDL CNL GR       | 1185                  | 1909                  |
| DIPLOG           | 1208                  | 1909                  |
| DLL MLL GR       | 1192                  | 1909                  |
| IEL BHC AC SP GR | 150                   | 1908                  |
| SWC              | 1250                  | 1895                  |
| SWC              | 1718                  | 1790                  |
| VELOCITY         | 150                   | 1909                  |

Foringsrør og formasjonsstyrketester

| Type utforing | Utforing diam. [tommer] | Utforing dybde [m] | Brønnbane diam. [tommer] | Brønnbane dyp [m] | LOT/FIT slam eqv. [g/cm3] | Type formasjonstest |
|---------------|-------------------------|--------------------|--------------------------|-------------------|---------------------------|---------------------|
| CONDUCTOR     | 30                      | 213.5              |                          | 0.0               | 0.00                      |                     |
| INTERM.       | 13 3/8                  | 482.3              |                          | 0.0               | 0.00                      |                     |
| INTERM.       | 9 5/8                   | 1207.5             |                          | 0.0               | 0.00                      |                     |
| OPEN HOLE     |                         | 1910.0             | 8 1/2                    | 1910.0            | 0.00                      |                     |

Boreslam

| Dybde MD [m] | Egenvekt, slam [g/cm3] | Viskositet, slam [mPa.s] | Flytegrense [Pa] | Type slam  | Dato, måling |
|--------------|------------------------|--------------------------|------------------|------------|--------------|
| 145          | 1.04                   |                          |                  | waterbased |              |
| 300          | 1.05                   |                          |                  | waterbased |              |
| 473          | 1.08                   |                          |                  | waterbased |              |
| 820          | 1.11                   | 46.0                     |                  | waterbased |              |
| 1200         | 1.09                   |                          |                  | waterbased |              |
| 1693         | 1.11                   | 66.0                     |                  | waterbased |              |

