



## Generell informasjon

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| Brønnbane navn                           | 7220/6-2                             |
| Type                                     | EXPLORATION                          |
| Formål                                   | WILDCAT                              |
| Status                                   | SUSPENDED                            |
| Faktakart i nytt vindu                   | <a href="#">lenke til kart</a>       |
| Hovedområde                              | BARENTS SEA                          |
| Brønn navn                               | 7220/6-2                             |
| Seismisk lokalisering                    | LN11M04 inline 7758 & crossline 3828 |
| Utvinningstillatelse                     | <a href="#">609</a>                  |
| Boreoperatør                             | Lundin Norway AS                     |
| Boretillatelse                           | 1590-L                               |
| Boreinnretning                           | <a href="#">ISLAND INNOVATOR</a>     |
| Boredager                                | 35                                   |
| Borestart                                | 01.10.2015                           |
| Boreslutt                                | 04.11.2015                           |
| Frigitt dato                             | 04.11.2017                           |
| Publiseringsdato                         | 18.12.2017                           |
| Opprinnelig formål                       | WILDCAT                              |
| Gjenåpnet                                | NO                                   |
| Innhold                                  | SHOWS                                |
| Funnbrønnbane                            | NO                                   |
| Avstand, boredekk - midlere havflate [m] | 30.0                                 |
| Vanndybde ved midlere havflate [m]       | 387.0                                |
| Totalt målt dybde (MD) [m RKB]           | 985.0                                |
| Totalt vertikalt dybde (TVD) [m RKB]     | 985.0                                |
| Maks inklinasjon [°]                     | 1.4                                  |
| Eldste penetrerte alder                  | MIDDLE TRIASSIC                      |
| Eldste penetrerte formasjon              | SNADD FM                             |
| Geodetisk datum                          | ED50                                 |
| NS grader                                | 72° 34' 13.1" N                      |
| ØV grader                                | 20° 58' 19.66" E                     |
| NS UTM [m]                               | 8062692.32                           |
| ØV UTM [m]                               | 699378.62                            |
| UTM sone                                 | 33                                   |
| NPDID for brønnbanen                     | 7748                                 |



## Brønnhistorie

# Wellbore history

### General

Well 7220/6-2 was drilled to test the Neiden prospect on the western side of the Loppa High in the Barents Sea. The well is located ca 4 km north-northwest of the Obelix well 7220/6-1, which had shows and traces of live oil in the Permian Ørn Formation. The primary objectives were to test the reservoir properties and hydrocarbon potential in sandstones within the Triassic Snadd Formation and in the carbonates of the Ørn Formation.

### Operations and results

Wildcat well 7220/6-2 was spudded with the semi-submersible installation Island Innovator on 1 October 2015 and drilled to TD at 985 m in Middle Triassic sediments in the Snadd Formation. Operations proceeded with 23% of total time recorded as downtime. Most of the downtime was related to losses in the Snadd Formation. After completing the drilling and data acquisition program, a 7" liner was installed and the well was temporarily plugged and abandoned due to rig classification in the Barents Sea for the prevailing winter. The well was drilled with seawater and hi-vis pills down to 537 m, and with Aquadrill mud from 537 m to TD.

The well encountered the prognosed intra Snadd sandstones at 634 m. The sandstones form part of a heterolithic siliciclastic unit with 181.5 m TVD gross thickness. These sandstone stringers and interbeds were water wet (density 1.082 g/cc) but had traces of gas and minor oil shows in the cuttings.

One core was cut from 835 m to 861.4 m with 100% recovery. The core was mostly siltstone with sandstone and claystone beds. MDT water samples were taken at 616.9 m and 789.2 m.

The well was suspended on 4 November 2015 as a dry well with shows.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

| Borekaksprøve, topp dybde [m] | Borekaksprøve, bunn dybde [m] |
|-------------------------------|-------------------------------|
| 510.00                        | 985.00                        |

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

## Borekjerne i Sokkeldirektoratet



| Kjerneprøve nummer | Kjerneprøve - topp dybde | Kjerneprøve - bunn dybde | Kjerneprøve dybde - enhet |
|--------------------|--------------------------|--------------------------|---------------------------|
| 1                  | 840.0                    | 866.4                    | [m ]                      |

|                                       |      |
|---------------------------------------|------|
| Total kjerneprøve lengde [m]          | 26.4 |
| Kjerner tilgjengelig for prøvetaking? | YES  |

### Litostratigrafi

| Topp Dyb [mMD RKB] | Litostrat. enhet                 |
|--------------------|----------------------------------|
| 417                | <a href="#">NORDLAND GP</a>      |
| 417                | <a href="#">UNDIFFERENTIATED</a> |
| 481                | <a href="#">SOTBAKKEN GP</a>     |
| 481                | <a href="#">TORSK FM</a>         |
| 510                | <a href="#">KAPP TOSCANA GP</a>  |
| 510                | <a href="#">SNADD FM</a>         |

### Logger

| Type logg                       | Topp dyp for logg [m] | Bunn dyp for logg [m] |
|---------------------------------|-----------------------|-----------------------|
| FMI MSIP                        | 566                   | 811                   |
| FMI MSIP                        | 610                   | 966                   |
| HRLA PEX ECS HNGS               | 562                   | 811                   |
| HRLA PEX ECS HNGS               | 745                   | 958                   |
| MDT                             | 639                   | 789                   |
| MWD - GR PWD RES DIR AC         | 417                   | 502                   |
| MWD - PWD DIR                   | 417                   | 488                   |
| MWD - RES GR PWD DIR            | 877                   | 985                   |
| MWD - RES GR PWD DIR DEN NEU AC | 502                   | 877                   |
| MWD - RES GR PWDDIR             | 985                   | 985                   |
| USIT DCBL VDL GR                | 438                   | 567                   |
| USIT DCBL VDL GR                | 533                   | 945                   |
| XL ROCK                         | 621                   | 649                   |

### Foringsrør og formasjonsstyrketester



| Type utforing | Utforing diam.<br>[tommer] | Utforing dybde<br>[m] | Brønnbane diam.<br>[tommer] | Brønnbane dyp<br>[m] | LOT/FIT slam<br>eqv.<br>[g/cm3] | Type formasjonstest |
|---------------|----------------------------|-----------------------|-----------------------------|----------------------|---------------------------------|---------------------|
| CONDUCTOR     | 30                         | 478.0                 | 36                          | 478.0                | 0.00                            |                     |
| SURF.COND.    | 13 3/8                     | 494.8                 | 26                          | 497.0                | 1.26                            | FIT                 |
| PILOT HOLE    |                            | 497.0                 | 9 7/8                       | 497.0                | 0.00                            |                     |
| LINER         | 9 5/8                      | 605.2                 | 12 1/4                      | 606.0                | 1.44                            | FIT                 |
| LINER         | 7                          | 978.0                 | 8 1/2                       | 979.0                | 1.40                            | FIT                 |

**Boreslam**

| Dybde MD [m] | Egenvekt, slam<br>[g/cm3] | Viskositet, slam<br>[mPa.s] | Flytegrense [Pa] | Type slam   | Dato, måling |
|--------------|---------------------------|-----------------------------|------------------|-------------|--------------|
| 417          | 1.50                      | 19.0                        |                  | Water Based |              |
| 417          | 1.04                      | 1.0                         |                  | Water Based |              |
| 502          | 1.04                      | 1.0                         |                  | Water Based |              |
| 502          | 1.50                      | 19.0                        |                  | Water Based |              |
| 517          | 1.20                      | 11.0                        |                  | Water based |              |
| 611          | 1.25                      | 12.0                        |                  | Water Based |              |
| 611          | 1.20                      | 12.0                        |                  | Water Based |              |
| 761          | 1.21                      | 12.0                        |                  | Water Based |              |
| 761          | 1.25                      | 11.0                        |                  | Water Based |              |
| 812          | 1.21                      | 12.0                        |                  | Water Based |              |
| 876          | 1.18                      | 12.0                        |                  | Water Based |              |
| 876          | 1.21                      | 13.0                        |                  | Water Based |              |
| 882          | 1.17                      | 11.0                        |                  | Water Based |              |
| 985          | 1.13                      | 1.0                         |                  | Brine       |              |
| 985          | 1.17                      | 11.0                        |                  | Water Based |              |