



## Generell informasjon





|                                          |                                                     |
|------------------------------------------|-----------------------------------------------------|
| Brønnbane navn                           | 6507/11-7                                           |
| 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                              | NORWEGIAN SEA                                       |
| Brønn navn                               | 6507/11-7                                           |
| Seismisk lokalisering                    | Seismic survey MC3D-MGW98 inline4277-crossline 4238 |
| Utvinningsstillatelse                    | <a href="#">263</a>                                 |
| Boreoperatør                             | Norsk Hydro Produksjon AS                           |
| Boretillatelse                           | 1123-L                                              |
| Boreinnretning                           | <a href="#">TRANSOCEAN WINNER</a>                   |
| Boredager                                | 62                                                  |
| Borestart                                | 13.12.2006                                          |
| Boreslutt                                | 12.02.2007                                          |
| Frigitt dato                             | 12.02.2009                                          |
| Publiseringsdato                         | 09.03.2009                                          |
| Opprinnelig formål                       | WILDCAT                                             |
| Gjenåpnet                                | NO                                                  |
| Innhold                                  | DRY                                                 |
| Funnbrønnbane                            | NO                                                  |
| Avstand, boredekk - midlere havflate [m] | 26.0                                                |
| Vanndybde ved midlere havflate [m]       | 294.0                                               |
| Totalt målt dybde (MD) [m RKB]           | 2950.0                                              |
| Totalt vertikalt dybde (TVD) [m RKB]     | 2948.8                                              |
| Maks inklinasjon [°]                     | 3.4                                                 |
| Temperatur ved bunn av brønnbanen [°C]   | 107                                                 |
| Eldste penetrerte alder                  | EARLY CRETACEOUS                                    |
| Eldste penetrerte formasjon              | LANGE FM                                            |
| Geodetisk datum                          | ED50                                                |
| NS grader                                | 65° 10' 54.58" N                                    |
| ØV grader                                | 7° 21' 52.8" E                                      |
| NS UTM [m]                               | 7229892.52                                          |
| ØV UTM [m]                               | 423410.55                                           |
| UTM sone                                 | 32                                                  |
| NPDID for brønnbanen                     | 5430                                                |



## Brønnhistorie

### General

Wildcat well 6507/11-7 is located in the Grinda Graben, a major structural element in PL263 on the Halten Terrace off shore mid Norway. The primary objective of the well 6507/11-7 was to prove commercial hydrocarbon resources in the Late Cretaceous Zita prospect. The Zita prospect is a Lysing Formation reservoir in a stratigraphic trap model. A secondary objective of the well was to prove commercial hydrocarbon resources within the Late Cretaceous Zit-B prospect. The Zit-B prospect is an Upper Lange Fm reservoir in a stratigraphic trap model.

### Operations and results

Well 6507/11-7 was spudded with the semi-submersible installation Transocean Winner on 13 December 2006 and drilled to TD at 2950 m in Early Cretaceous (Late Albian) sediments of the Lange Formation. Spudding was made difficult by large boulders and unacceptable inclination in the first top hole led to a re-spud ca 15 m northwest of the original location. Otherwise operations proceeded without significant problems. The well was drilled with spud mud down to 535 m, with Polymer/KCl brine mud from 535 m to 2484 m, and with Ultradril mud from 2484 m to TD. The Ultra drill mud contains Ultrafree NS, which consists of C14-C16 linear alpha olefins.

No hydrocarbons were proven in the well. Calcite cemented sand layers of Coniacian to Turonian age (Lysing Formation) were encountered in a 39 m thick interval (2777 - 2817 m). The stacked sand layers had very low porosities and permeability values, and was water wet. Formation pressure measurements showed higher pressure in the Lysing Formation sands in well 6507/11-7, than in the comparable down-dip Smørbukk S discovery in the Lysing Formation. This indicated that the encountered sands were not in direct pressure communication with the Lysing Formation sands in the region. Post-well organic geochemical analyses of mud gas, cuttings and SWC's confirmed a dry well with no indication of migrated hydrocarbons.

The formation evaluation programme for not making a discovery was carried through, comprising one run with wire line logging, MDT pressure point measurements and MSCT sidewall samples, in order to confirm the well results. No cores were taken, no VSP was gathered and no formation fluid sample was collected.

The well was permanently abandoned on 12 February 2007 as a dry well.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

|                                        |                               |
|----------------------------------------|-------------------------------|
| Borekaksprøve, topp dybde [m]          | Borekaksprøve, bunn dybde [m] |
| 550.00                                 | 2950.00                       |
| Borekaks tilgjengelig for prøvetaking? | YES                           |



## Litostratigrafi

| Topp Dyb<br>[mMD RKB] | Litostrat. enhet                |
|-----------------------|---------------------------------|
| 320                   | <a href="#">NORDLAND GP</a>     |
| 320                   | <a href="#">NAUST FM</a>        |
| 1408                  | <a href="#">KAI FM</a>          |
| 1710                  | <a href="#">HORDALAND GP</a>    |
| 1710                  | <a href="#">BRYGGE FM</a>       |
| 2052                  | <a href="#">ROGALAND GP</a>     |
| 2052                  | <a href="#">TARE FM</a>         |
| 2100                  | <a href="#">TANG FM</a>         |
| 2158                  | <a href="#">SHETLAND GP</a>     |
| 2158                  | <a href="#">SPRINGAR FM</a>     |
| 2237                  | <a href="#">NISE FM</a>         |
| 2513                  | <a href="#">KVITNOS FM</a>      |
| 2777                  | <a href="#">CROMER KNOLL GP</a> |
| 2777                  | <a href="#">LYSING FM</a>       |
| 2817                  | <a href="#">LANGE FM</a>        |

## Geokjemisk informasjon

| Dokument navn          | Dokument<br>format | Dokument<br>størrelse [KB] |
|------------------------|--------------------|----------------------------|
| <a href="#">5430_1</a> | pdf                | 0.27                       |
| <a href="#">5430_2</a> | pdf                | 2.31                       |

## Logger

| Type logg                          | Topp dyp<br>for logg [m] | Bunn dyp for<br>logg [m] |
|------------------------------------|--------------------------|--------------------------|
| GR RES NEU DEN DIR APWD            | 2753                     | 2950                     |
| MDT GR                             | 2783                     | 2880                     |
| MSCT GR                            | 2751                     | 2885                     |
| MWD - DIR                          | 320                      | 535                      |
| MWD - GR RES DIR APWD              | 535                      | 1115                     |
| MWD - GR RES NEU DIR APWD<br>SONIC | 1115                     | 2484                     |
| PEX HRLA DSI                       | 2329                     | 2948                     |





### 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                         | 386.0                 | 36                          | 387.0                | 0.00                            | LOT                 |
| SURF.COND.    | 20                         | 532.0                 | 26                          | 535.0                | 0.00                            | LOT                 |
| INTERM.       | 13 3/8                     | 1114.0                | 17 1/2                      | 1115.0               | 1.22                            | LOT                 |
| INTERM.       | 9 5/8                      | 2478.0                | 12 1/4                      | 2484.0               | 1.90                            | LOT                 |
| OPEN HOLE     |                            | 2950.0                | 8 1/2                       | 2950.0               | 1.94                            | LOT                 |

### Boreslam

| Dybde MD [m] | Egenvekt, slam<br>[g/cm3] | Viskositet, slam<br>[mPa.s] | Fllytegrense [Pa] | Type slam   | Dato, måling |
|--------------|---------------------------|-----------------------------|-------------------|-------------|--------------|
| 390          | 1.05                      |                             |                   | WATER BASED |              |
| 390          | 1.05                      |                             |                   | WATER BASED |              |
| 421          | 1.05                      |                             |                   | WATER BASED |              |
| 1115         | 1.18                      | 22.0                        |                   | WATER BASED |              |
| 1536         | 1.58                      | 37.0                        |                   | WATER BASED |              |
| 1709         | 1.60                      | 40.0                        |                   | WATER BASED |              |
| 2115         | 1.60                      | 36.0                        |                   | WATER BASED |              |
| 2315         | 1.60                      | 31.0                        |                   | WATER BASED |              |
| 2445         | 1.60                      | 36.0                        |                   | WATER BASED |              |
| 2484         | 1.62                      | 32.0                        |                   | WATER BASED |              |