



## Generell informasjon

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Brønnbane navn                           | 6306/6-1                         |
| Type                                     | EXPLORATION                      |
| Formål                                   | WILDCAT                          |
| Status                                   | P&A                              |
| Faktakart i nytt vindu                   | <a href="#">lenke til kart</a>   |
| Hovedområde                              | NORWEGIAN SEA                    |
| Brønn navn                               | 6306/6-1                         |
| Seismisk lokalisering                    | LineEH91-112 & SP451             |
| Utvinningstillatelse                     | <a href="#">198</a>              |
| Boreoperatør                             | Den norske stats oljeselskap a.s |
| Boretillatelse                           | 791-L                            |
| Boreinnretning                           | <a href="#">ROSS RIG (2)</a>     |
| Boredager                                | 14                               |
| Borestart                                | 22.06.1994                       |
| Boreslutt                                | 05.07.1994                       |
| Frigitt dato                             | 05.07.1996                       |
| Publiseringsdato                         | 30.06.2005                       |
| Opprinnelig formål                       | WILDCAT                          |
| Gjenåpnet                                | NO                               |
| Innhold                                  | DRY                              |
| Funnbrønnbane                            | NO                               |
| Avstand, boredekk - midlere havflate [m] | 24.0                             |
| Vanndybde ved midlere havflate [m]       | 284.0                            |
| Totalt målt dybde (MD) [m RKB]           | 1317.0                           |
| Totalt vertikalt dybde (TVD) [m RKB]     | 1317.0                           |
| Maks inklinasjon [°]                     | 1.3                              |
| Temperatur ved bunn av brønnbanen [°C]   | 43                               |
| Eldste penetrerte alder                  | PRE-DEVONIAN                     |
| Eldste penetrerte formasjon              | BASEMENT                         |
| Geodetisk datum                          | ED50                             |
| NS grader                                | 63° 30' 1.45" N                  |
| ØV grader                                | 6° 49' 14.42" E                  |
| NS UTM [m]                               | 7043364.00                       |
| ØV UTM [m]                               | 391515.49                        |
| UTM sone                                 | 32                               |
| NPDID for brønnbanen                     | 2384                             |



## Brønnhistorie

### General

Well 6306/6-1 was drilled on the Frøya High in the Møre I area off shore southern Mid Norway. The main objective was to prove HC accumulations in Late Jurassic Rogn Formation sandstones, the A-prospect.

### Operations and results

Wildcat well 6306/6-1 was spudded with the semi-submersible installation Ross Rig on 22 June 1994 and drilled to TD at 1317 m in basement rocks. No significant problems were encountered in the operations. The well was drilled with bentonite and seawater down to 432 m and with KCI/PAC mud from 432 m to TD.

The Paleocene Egga sandstone unit was encountered at 604 m. The sandstones were rather silty; partly calcite cemented, and with reduced porosity due also to the presence of mica and glauconite. A 93 m thick Rogn Formation sandstone unit came in at 1158 m, sandwiched in Spekk Formation shales above and below. Under base Spekk a sequence of Middle Jurassic age (Fangst Group) was penetrated from 1267 m to 1281 m. Sandstones with occasional interbeds of claystone/shale grading to coals dominated this sequence. No shows were recorded in any section of the well while drilling, and since only questionable sandstone extracts were found in post-well organic geochemical analyses the well is concluded as dry. Very good source rocks are present in the well. The best source rock is seen in the upper Spekk section, which contain a typically marine anoxic, oil-prone Type II kerogen. The lower Spekk section has higher TOC, but is more terrestrial in composition and thus more gas/condensate -prone. Also the coaly shales and coals of the Middle Jurassic have very good potential for mixed oil and gas. The well is however immature all through with a vitrinite reflectance of about 0.45 % Ro at TD.

One FMT run was performed in the Rogn Formation sandstone. Six pressure points gave a water gradient of 1.002 g/cm<sup>3</sup>. No fluid sample was taken.

The well was permanently abandoned on 5 July as a dry hole.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

| Borekaksprøve, topp dybde [m] | Borekaksprøve, bunn dybde [m] |
|-------------------------------|-------------------------------|
| 440.00                        | 1317.00                       |

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

## Borekjerter i Sokkeldirektoratet



| Kjerneprøve nummer | Kjerneprøve - topp dybde | Kjerneprøve - bunn dybde | Kjerneprøve dybde - enhet |
|--------------------|--------------------------|--------------------------|---------------------------|
| 1                  | 1176.0                   | 1194.8                   | [m ]                      |

|                                       |      |
|---------------------------------------|------|
| Total kjerneprøve lengde [m]          | 18.8 |
| Kjerner tilgjengelig for prøvetaking? | YES  |

## Kjernebilder



1176-1181m



1186-1191m



1181-1186m



1191-1194m

## Palynologiske preparater i Sakkeldirektoratet

| Prøve dybde | Dybde enhet | Prøve type | Laboratorie |
|-------------|-------------|------------|-------------|
| 480.0       | [m]         | DC         | MILL        |
| 500.0       | [m]         | DC         | MILL        |
| 520.0       | [m]         | DC         | MILL        |
| 540.0       | [m]         | DC         | MILL        |
| 560.0       | [m]         | DC         | MILL        |
| 580.0       | [m]         | DC         | MILL        |
| 600.0       | [m]         | DC         | MILL        |
| 620.0       | [m]         | DC         | MILL        |
| 640.0       | [m]         | DC         | MILL        |
| 660.0       | [m]         | DC         | MILL        |
| 680.0       | [m]         | DC         | MILL        |
| 700.0       | [m]         | DC         | MILL        |
| 740.0       | [m]         | DC         | MILL        |
| 760.0       | [m]         | DC         | MILL        |
| 770.0       | [m]         | DC         | MILL        |
| 780.0       | [m]         | DC         | MILL        |
| 800.0       | [m]         | DC         | MILL        |
| 810.0       | [m]         | DC         | MILL        |
| 820.0       | [m]         | DC         | MILL        |



## Faktasider

### Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 11:26

|        |     |     |         |
|--------|-----|-----|---------|
| 830.0  | [m] | DC  | MILL    |
| 840.0  | [m] | DC  | MILL    |
| 850.0  | [m] | DC  | MILL    |
| 860.0  | [m] | DC  | MILL    |
| 870.0  | [m] | DC  | MILL    |
| 879.5  | [m] | SWC | STATO   |
| 887.5  | [m] | SWC | STATO   |
| 900.0  | [m] | DC  | MILL    |
| 910.0  | [m] | DC  | MILL    |
| 920.0  | [m] | DC  | MILL    |
| 925.5  | [m] | SWC | STATO   |
| 940.0  | [m] | DC  | MILL    |
| 950.0  | [m] | DC  | MILL    |
| 960.0  | [m] | DC  | MILL    |
| 969.0  | [m] | DC  | MILL    |
| 978.0  | [m] | DC  | MILL    |
| 987.0  | [m] | DC  | MILL    |
| 993.0  | [m] | SWC | STATO   |
| 1005.0 | [m] | DC  | MILL    |
| 1014.0 | [m] | DC  | MILL    |
| 1023.0 | [m] | DC  | MILL    |
| 1032.0 | [m] | DC  | MILL    |
| 1041.0 | [m] | DC  | MILL    |
| 1046.5 | [m] | SWC | STATO   |
| 1059.0 | [m] | DC  | MILL    |
| 1068.0 | [m] | DC  | MILL    |
| 1077.0 | [m] | DC  | MILL    |
| 1086.0 | [m] | DC  | MILL    |
| 1095.0 | [m] | DC  | MILL    |
| 1104.0 | [m] | DC  | MILL    |
| 1113.0 | [m] | DC  | MILL    |
| 1122.0 | [m] | DC  | MILL    |
| 1131.0 | [m] | DC  | MILL    |
| 1137.5 | [m] | SWC | STATO   |
| 1143.0 | [m] | DC  | MILL    |
| 1152.0 | [m] | DC  | MILL    |
| 1160.5 | [m] | SWC | STATO   |
| 1170.0 | [m] | DC  | MILL    |
| 1176.1 | [m] | C   | APT     |
| 1177.0 | [m] | C   | STATOIL |



|        |     |     |         |
|--------|-----|-----|---------|
| 1178.6 | [m] | C   | APT     |
| 1180.4 | [m] | C   | APT     |
| 1182.0 | [m] | C   | APT     |
| 1182.0 | [m] | C   | STATOIL |
| 1184.0 | [m] | C   | APT     |
| 1186.2 | [m] | C   | APT     |
| 1187.6 | [m] | C   | APT     |
| 1189.0 | [m] | C   | APT     |
| 1191.0 | [m] | C   | APT     |
| 1193.3 | [m] | C   | APT     |
| 1201.0 | [m] | SWC | STATOIL |
| 1212.0 | [m] | DC  | MILL    |
| 1228.8 | [m] | SWC | STATOIL |
| 1236.0 | [m] | DC  | MILL    |
| 1248.0 | [m] | DC  | MILL    |
| 1259.5 | [m] | SWC | STATOIL |
| 1261.5 | [m] | SWC | STATOI  |
| 1267.0 | [m] | DC  | MILL    |
| 1273.0 | [m] | DC  | MILL    |
| 1276.0 | [m] | DC  | MILL    |
| 1279.0 | [m] | DC  | MILL    |
| 1282.0 | [m] | DC  | MILL    |
| 1285.0 | [m] | DC  | MILL    |
| 1297.0 | [m] | DC  | MILL    |

### Litostratigrafi

| Topp Dyb<br>[mMD RKB] | Litostrat. enhet                   |
|-----------------------|------------------------------------|
| 308                   | <a href="#">NORDLAND GP</a>        |
| 486                   | <a href="#">ROGALAND GP</a>        |
| 486                   | <a href="#">TANG FM</a>            |
| 605                   | <a href="#">EGGA FM (INFORMAL)</a> |
| 728                   | <a href="#">SHETLAND GP</a>        |
| 728                   | <a href="#">NISE FM</a>            |
| 971                   | <a href="#">KVITNOS FM</a>         |
| 1039                  | <a href="#">CROMER KNOLL GP</a>    |
| 1039                  | <a href="#">LANGE FM</a>           |
| 1100                  | <a href="#">LYR FM</a>             |
| 1137                  | <a href="#">VIKING GP</a>          |



|      |                                     |
|------|-------------------------------------|
| 1137 | <a href="#">SPEKK FM</a>            |
| 1159 | <a href="#">ROGN FM</a>             |
| 1252 | <a href="#">SPEKK FM</a>            |
| 1267 | <a href="#">FANGST GP</a>           |
| 1282 | <a href="#">RED BEDS (INFORMAL)</a> |
| 1312 | <a href="#">BASEMENT</a>            |

### Spleisede logger

| Dokument navn        | Dokument format | Dokument størrelse [KB] |
|----------------------|-----------------|-------------------------|
| <a href="#">2384</a> | pdf             | 0.13                    |

### Geokjemisk informasjon

| Dokument navn          | Dokument format | Dokument størrelse [KB] |
|------------------------|-----------------|-------------------------|
| <a href="#">2384_1</a> | pdf             | 1.81                    |

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

| Dokument navn                                           | Dokument format | Dokument størrelse [KB] |
|---------------------------------------------------------|-----------------|-------------------------|
| <a href="#">2384_6306_6_1_COMPLETION_REPORT_AND_LOG</a> | pdf             | 31.77                   |

### Logger

| Type logg          | Topp dyp for logg [m] | Bunn dyp for logg [m] |
|--------------------|-----------------------|-----------------------|
| CBL VDL(MAC)       | 430                   | 750                   |
| DIFL MAC ZDL CN SL | 750                   | 1317                  |
| FMT GR             | 1165                  | 1237                  |
| MWD - DPR TF4      | 421                   | 756                   |
| MWD - DPR TF4      | 756                   | 1176                  |
| MWD - DPR TF4      | 1176                  | 1317                  |
| SWC GR             | 810                   | 1317                  |
| VSP                | 430                   | 1315                  |





Foringsrør og formasjonsstyrketester

| Type utforing | Utforing diam.<br>[tommer] | Utforing dybde<br>[m] | Brønnbane diam.<br>[tommer] | Brønnbane dyp<br>[m] | LOT/FIT slam eqv.<br>[g/cm3] | Type formasjonstest |
|---------------|----------------------------|-----------------------|-----------------------------|----------------------|------------------------------|---------------------|
| CONDUCTOR     | 30                         | 356.0                 | 36                          | 357.0                | 0.00                         | LOT                 |
| SURF.COND.    | 13 3/8                     | 428.0                 | 17 1/2                      | 430.0                | 1.44                         | LOT                 |
| INTERM.       | 9 5/8                      | 750.0                 | 12 1/4                      | 752.0                | 1.65                         | LOT                 |
| OPEN HOLE     |                            | 1317.0                | 8 1/2                       | 1317.0               | 0.00                         | LOT                 |

Boreslam

| Dybde MD [m] | Egenvekt, slam<br>[g/cm3] | Viskositet, slam<br>[mPa.s] | Flytegrense [Pa] | Type slam | Dato, måling |
|--------------|---------------------------|-----------------------------|------------------|-----------|--------------|
| 610          | 1.20                      | 15.0                        |                  | DUMMY     |              |
| 756          | 1.20                      | 12.0                        |                  | DUMMY     |              |
| 759          | 1.20                      | 12.0                        |                  | DUMMY     |              |
| 1050         | 1.25                      | 25.0                        |                  | DUMMY     |              |
| 1096         | 1.25                      | 27.0                        |                  | DUMMY     |              |
| 1160         | 1.25                      | 25.0                        |                  | DUMMY     |              |
| 1191         | 1.25                      | 27.0                        |                  | DUMMY     |              |
| 1317         | 1.25                      | 25.0                        |                  | DUMMY     |              |

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

| Dokument navn                                             | Dokument format | Dokument størrelse [KB] |
|-----------------------------------------------------------|-----------------|-------------------------|
| <a href="#">2384 Formation pressure (Formasjonstrykk)</a> | pdf             | 0.16                    |

