



## Generell informasjon





|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| Brønnbane navn                           | 1/5-5                                   |
| 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                              | NORTH SEA                               |
| Brønn navn                               | 1/5-5                                   |
| Seismisk lokalisering                    | Crossline 19180 in Q30_CNS_marge_3      |
| Utvinningstillatelse                     | <a href="#">618</a>                     |
| Boreoperatør                             | Total E&P Norge AS                      |
| Boretillatelse                           | 1608-L                                  |
| Boreinnretning                           | <a href="#">MÆRSK GALLANT</a>           |
| Boredager                                | 206                                     |
| Borestart                                | 24.02.2016                              |
| Boreslutt                                | 16.09.2016                              |
| Plugget og forlatt dato                  | 16.09.2016                              |
| Frigitt dato                             | 16.09.2018                              |
| Publiseringsdato                         | 16.09.2018                              |
| Opprinnelig formål                       | WILDCAT                                 |
| Gjenåpnet                                | NO                                      |
| Innhold                                  | DRY                                     |
| Funnbrønnbane                            | NO                                      |
| Avstand, boredekk - midlere havflate [m] | 48.0                                    |
| Vanndybde ved midlere havflate [m]       | 70.0                                    |
| Totalt målt dybde (MD) [m RKB]           | 5942.0                                  |
| Totalt vertikalt dybde (TVD) [m RKB]     | 5940.0                                  |
| Maks inklinasjon [°]                     | 4                                       |
| Temperatur ved bunn av brønnbanen [°C]   | 197                                     |
| Eldste penetrerte formasjon              | BRYNE FM                                |
| Geodetisk datum                          | ED50                                    |
| NS grader                                | 56° 43' 48.02" N                        |
| ØV grader                                | 2° 38' 44.92" E                         |
| NS UTM [m]                               | 6287528.37                              |
| ØV UTM [m]                               | 478327.19                               |
| UTM sone                                 | 31                                      |
| NPDID for brønnbanen                     | 7874                                    |



## Brønnhistorie

### General

Well 1/5-5 was drilled to test the Solaris prospect in the Central Graben, about 40 km North-West of the Ekofisk field, close to the border between UK and Norway. The primary target was to prove reservoir and hydrocarbon presence in Late Jurassic reservoir sands of the Ula Formation. Secondary target was the Triassic Skagerrak Formation.

### Operations and results

Wildcat well 1/5-5 was spudded with the jack-up installation Mærsk Gallant on 24 February 2016 and drilled to TD at 5942 m in the Middle - Late Vestland Group. A pilot hole was drilled from 210 to 1140 m to check for shallow gas, but no gas was seen and the opening up and continuation of the well could be carried out. The well is a deep high temperature-high pressure well. Thirty-nine days were counted as NPT. The single main cause of NPT (11 days) was main rig maintenance and changing the drilling line after installing BOP at 1140 m. Otherwise operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1140 m, with NABM oil based mud from 1140 m to TD.

The primary target Ula Formation sandstone was encountered at 5831 m. The Ula Formation was 80 m thick and consisted mainly of sandstones and a few siltstones. The reservoir showed traces of gas and wireline logging was carried out for further classification. The logging proved the reservoir tight, of moderate to poor quality, and dry. There were no shows above the oil-based mud. As the primary reservoir was found dry, it was decided not to continue to the secondary, Triassic target.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 16 September 2016 as a dry well.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

| Borekaksprøve, topp dybde [m] | Borekaksprøve, bunn dybde [m] |
|-------------------------------|-------------------------------|
| 1143.00                       | 5942.00                       |

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

## Litostratigrafi

| Topp Dyb<br>[mMD RKB] | Litostrat. enhet             |
|-----------------------|------------------------------|
| 118                   | <a href="#">NORDLAND GP</a>  |
| 1892                  | <a href="#">HORDALAND GP</a> |



|      |                                 |
|------|---------------------------------|
| 3209 | <a href="#">ROGALAND GP</a>     |
| 3209 | <a href="#">BALDER FM</a>       |
| 3242 | <a href="#">SELE FM</a>         |
| 3268 | <a href="#">LISTA FM</a>        |
| 3459 | <a href="#">VÅLE FM</a>         |
| 3483 | <a href="#">SHETLAND GP</a>     |
| 3483 | <a href="#">EKOFISK FM</a>      |
| 3594 | <a href="#">TOR FM</a>          |
| 4126 | <a href="#">HOD FM</a>          |
| 5228 | <a href="#">BLODØKS FM</a>      |
| 5239 | <a href="#">HIDRA FM</a>        |
| 5385 | <a href="#">CROMER KNOLL GP</a> |
| 5385 | <a href="#">RØDBY FM</a>        |
| 5459 | <a href="#">SOLA FM</a>         |
| 5529 | <a href="#">TUXEN FM</a>        |
| 5540 | <a href="#">ÅSGARD FM</a>       |
| 5712 | <a href="#">TYNE GP</a>         |
| 5712 | <a href="#">FARSUND FM</a>      |
| 5752 | <a href="#">HAUGESUND FM</a>    |
| 5831 | <a href="#">VESTLAND GP</a>     |
| 5831 | <a href="#">ULA FM</a>          |
| 5911 | <a href="#">BRYNE FM</a>        |

## Logger

| Type logg                 | Topp dyp<br>for logg [m] | Bunn dyp for<br>logg [m] |
|---------------------------|--------------------------|--------------------------|
| GYRO                      | 120                      | 5535                     |
| HAPS HLDS HNGS GR         | 5551                     | 5925                     |
| IBC CBL VDL GR            | 1130                     | 4171                     |
| IBC CBL VDL GR            | 4180                     | 5544                     |
| LWD - BITGR GR RES PWD DI | 3105                     | 3477                     |
| LWD - DI                  | 118                      | 210                      |
| LWD - DI APWD             | 210                      | 1143                     |
| LWD - DI GR RES APWD SON  | 210                      | 1140                     |
| LWD - GR RES PWD DI       | 1143                     | 3105                     |
| LWD - GR RES PWD DI       | 3477                     | 4217                     |
| LWD - NBGR RES GR PWD DI  | 4218                     | 5561                     |
| LWD - PWD                 | 5565                     | 5566                     |
| LWD - RES GR PWD DI       | 5566                     | 5942                     |



|              |      |      |
|--------------|------|------|
| PPC DSI GR   | 2400 | 5556 |
| QAIT PPC DSI | 5551 | 5937 |
| XPT GR       | 5810 | 5872 |

### 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                         | 200.0                 | 36                          | 210.0                | 0.00                            |                     |
| SURF.COND.    | 20                         | 1129.0                | 26                          | 1140.0               | 1.74                            | LOT                 |
| PILOT HOLE    |                            | 1140.0                | 9 7/8                       | 1140.0               | 0.00                            |                     |
| INTERM.       | 13 5/8                     | 4201.0                | 16                          | 4217.0               | 2.06                            | FIT                 |
| INTERM.       | 9 7/8                      | 5551.0                | 12 1/4                      | 5565.0               | 2.25                            | LOT                 |
| OPEN HOLE     |                            | 5942.0                | 8 1/2                       | 5942.0               | 0.00                            |                     |

### Boreslam

| Dybde MD [m] | Egenvekt, slam<br>[g/cm3] | Viskositet, slam<br>[mPa.s] | Flytegrense [Pa] | Type slam | Dato, måling |
|--------------|---------------------------|-----------------------------|------------------|-----------|--------------|
| 200          | 1.05                      | 15.0                        |                  | Sea water |              |
| 200          | 1.25                      | 23.0                        |                  | Spud Mud  |              |
| 242          | 1.25                      | 14.0                        |                  | Spud mud  |              |
| 301          | 1.05                      | 17.0                        |                  | Spud Mud  |              |
| 301          | 1.32                      | 17.0                        |                  | Spud mud  |              |
| 700          | 1.70                      | 30.0                        |                  | EMS-4750  |              |
| 725          | 1.25                      | 17.0                        |                  | Spud mud  |              |
| 780          | 1.03                      | 1.0                         |                  | Sea water |              |
| 827          | 1.05                      | 15.0                        |                  | Spud mud  |              |
| 1130         | 1.23                      | 11.0                        |                  | Silicate  |              |
| 1140         | 1.22                      | 13.0                        |                  | Silicate  |              |
| 1140         | 1.05                      | 15.0                        |                  | Spud Mud  |              |
| 1143         | 1.64                      | 44.0                        |                  | EMS-4600  |              |
| 1544         | 1.67                      | 53.0                        |                  | EMS-4600  |              |
| 1785         | 1.88                      | 58.0                        |                  | EMS-4750  |              |
| 1843         | 1.67                      | 50.0                        |                  | EMS-4600  |              |
| 2312         | 1.68                      | 45.0                        |                  | EMS-4600  |              |
| 3216         | 1.88                      | 55.0                        |                  | EMS-4750  |              |
| 3307         | 1.68                      | 41.0                        |                  | EMS-4600  |              |
| 3458         | 1.70                      | 41.0                        |                  | EMS-4600  |              |



## Faktasider

### Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 01:47

|      |      |      |  |          |  |
|------|------|------|--|----------|--|
| 4045 | 1.88 | 55.0 |  | EMS-4750 |  |
| 4100 | 1.70 | 42.0 |  | EMS-4600 |  |
| 4180 | 1.88 | 59.0 |  | EMS-4750 |  |
| 4211 | 1.70 | 41.0 |  | EMS-4600 |  |
| 4290 | 1.88 | 81.0 |  | EMS-4400 |  |
| 4330 | 1.70 | 41.0 |  | EMS-4750 |  |
| 4517 | 1.72 | 43.0 |  | EMS-4750 |  |
| 4634 | 1.74 | 44.0 |  | EMS-4750 |  |
| 4787 | 1.78 | 46.0 |  | EMS-4750 |  |
| 4933 | 1.82 | 44.0 |  | EMS-4750 |  |
| 4942 | 2.18 | 88.0 |  | EMS-4400 |  |
| 4994 | 1.85 | 48.0 |  | EMS-4750 |  |
| 5100 | 1.88 | 54.0 |  | EMS-4750 |  |
| 5158 | 1.85 | 46.0 |  | EMS-4750 |  |
| 5274 | 1.89 | 70.0 |  | EMS-4750 |  |
| 5331 | 1.85 | 47.0 |  | EMS-4750 |  |
| 5392 | 2.18 | 91.0 |  | EMS-4400 |  |
| 5419 | 1.88 | 48.0 |  | EMS-4750 |  |
| 5560 | 2.18 | 90.0 |  | EMS-4400 |  |
| 5561 | 1.88 | 53.0 |  | EMS-4750 |  |
| 5582 | 2.10 | 47.0 |  | EMS-4400 |  |
| 5869 | 2.12 | 60.0 |  | EMS-4400 |  |
| 5942 | 2.18 | 93.0 |  | EMS-4400 |  |
| 5942 | 2.14 | 72.0 |  | EMS-4400 |  |