



## Generell informasjon

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| Brønnbane navn                           | 6505/10-1                            |
| Type                                     | EXPLORATION                          |
| Formål                                   | WILDCAT                              |
| Status                                   | P&A                                  |
| Faktakart i nytt vindu                   | <a href="#">lenke til kart</a>       |
| Hovedområde                              | NORWEGIAN SEA                        |
| Brønn navn                               | 6505/10-1                            |
| Seismisk lokalisering                    | SH 9602-3D: INLINE 798 & X-LINE 2249 |
| Utvinningstillatelse                     | <a href="#">210</a>                  |
| Boreoperatør                             | A/S Norske Shell                     |
| Boretillatelse                           | 917-L                                |
| Boreinnretning                           | <a href="#">OCEAN ALLIANCE</a>       |
| Boredager                                | 99                                   |
| Borestart                                | 28.03.1998                           |
| Boreslutt                                | 04.07.1998                           |
| Frigitt dato                             | 04.07.2000                           |
| Publiseringsdato                         | 15.11.2001                           |
| Opprinnelig formål                       | WILDCAT                              |
| Gjenåpnet                                | NO                                   |
| Innhold                                  | DRY                                  |
| Funnbrønnbane                            | NO                                   |
| Avstand, boredekk - midlere havflate [m] | 26.0                                 |
| Vanndybde ved midlere havflate [m]       | 684.0                                |
| Totalt målt dybde (MD) [m RKB]           | 5028.0                               |
| Totalt vertikalt dybde (TVD) [m RKB]     | 5026.0                               |
| Maks inklinasjon [°]                     | 3.24                                 |
| Temperatur ved bunn av brønnbanen [°C]   | 151                                  |
| Eldste penetrerte alder                  | LATE CRETACEOUS                      |
| Eldste penetrerte formasjon              | LANGE FM                             |
| Geodetisk datum                          | ED50                                 |
| NS grader                                | 65° 7' 59.69" N                      |
| ØV grader                                | 5° 10' 29.39" E                      |
| NS UTM [m]                               | 7225243.08                           |
| ØV UTM [m]                               | 602035.97                            |
| UTM sone                                 | 31                                   |
| NPDID for brønnbanen                     | 3259                                 |



## Brønnhistorie

### General

The objectives of the Helland-Hansen prospect exploration well 6505/10-1 were to obtain geological data and information down to 5000 m or Lower Cretaceous, to evaluate the HC potential of the Upper Cenomanian to Upper Coniacian interval of Helland-Hansen prospect in terms of reservoir and hydrocarbon phase, and to take appropriate samples in terms of reservoir, pressures and fluids.

### Operations and results

Exploration well 6505/10-1 is located in the southern part of the Vøring Basin, m PL210, some 70 km West of the Smørbukk field and 250 km from the Norwegian mainland. After cementing the 20" casing string, it was decided to re-spud the well due to shallow water flow. The initial well was temporarily abandoned and re-numbered 6505/10-1X. The final well, numbered as 6505/10-1, was drilled to target depth of 5026 m TVD. The main objectives of the well were fulfilled. However, the reservoir quality of the target sequence was very poor, affecting sampling of pressures and formation fluids. Based on the poor reservoir quality, no well testing was carried out. Two cores were cut in the Lysing Formation in the intervals 3485 to 3493 m and 3693 to 3720 m RKB, and one core was cut in the Lange Formation from 3857 to 3884 m. Two MDT samples were collected at 3718.6 m RKB but well site analyses established them to contain mainly filtrate and water and no moveable hydrocarbons. The well was permanently plugged and abandoned as a dry hole on 4th of July 1998.

### Testing

No DST was performed

## Borekaks i Sokkeldirektoratet

| Borekaksprøve, topp dybde [m] | Borekaksprøve, bunn dybde [m] |
|-------------------------------|-------------------------------|
| 1310.00                       | 5026.00                       |

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

## Borekjerne i Sokkeldirektoratet

| Kjerneprøve nummer | Kjerneprøve - topp dybde | Kjerneprøve - bunn dybde | Kjerneprøve dybde - enhet |
|--------------------|--------------------------|--------------------------|---------------------------|
| 1                  | 3485.0                   | 3493.9                   | [ m ]                     |
| 2                  | 3693.0                   | 3720.8                   | [ m ]                     |
| 3                  | 3857.0                   | 3883.7                   | [ m ]                     |

|                              |      |
|------------------------------|------|
| Total kjerneprøve lengde [m] | 63.4 |
|------------------------------|------|



Kjerner tilgjengelig for prøvetaking? YES

### Kjernebilder



3485-3490m



3490-3493m



3693-3698m



3698-3703m



3703-3708m



3708-3713m



3713-3718m



3718-3720m



3857-3862m



3862-3867m



3867-3872m



3872-3877m



3877-3882m



3882-3884m

### Palynologiske preparater i Sokkeldirektoratet

| Prøve dybde | Dybde enhet | Prøve type | Laboratorie |
|-------------|-------------|------------|-------------|
| 1310.0      | [m]         | SWC        | RRI         |
| 1314.0      | [m]         | SWC        | RRI         |
| 1319.0      | [m]         | SWC        | RRI         |
| 1324.0      | [m]         | SWC        | RRI         |
| 1333.0      | [m]         | SWC        | RRI         |
| 1387.0      | [m]         | SWC        | RRI         |
| 1395.0      | [m]         | SWC        | RRI         |
| 3000.0      | [m]         | DC         | RRI         |
| 3025.0      | [m]         | DC         | RRI         |
| 3105.0      | [m]         | DC         | RRI         |
| 3165.0      | [m]         | DC         | RRI         |



|            |    |     |
|------------|----|-----|
| 3200.0 [m] | DC | RRI |
| 3250.0 [m] | DC | RRI |
| 3270.0 [m] | DC | RRI |
| 3285.0 [m] | DC | RRI |
| 3305.0 [m] | DC | RRI |
| 3485.2 [m] | C  | OD  |
| 3485.7 [m] | C  | RRI |
| 3487.5 [m] | C  | OD  |
| 3488.8 [m] | C  | RRI |
| 3489.5 [m] | C  | OD  |
| 3490.7 [m] | C  | RRI |
| 3491.5 [m] | C  | OD  |
| 3493.4 [m] | C  | RRI |
| 3493.5 [m] | C  | OD  |
| 3593.3 [m] | C  | OD  |
| 3601.0 [m] | DC | RRI |
| 3640.0 [m] | DC | RRI |
| 3693.2 [m] | C  | RRI |
| 3694.9 [m] | C  | OD  |
| 3695.2 [m] | C  | OD  |
| 3695.6 [m] | C  | OD  |
| 3697.3 [m] | C  | OD  |
| 3697.8 [m] | C  | RRI |
| 3699.5 [m] | C  | OD  |
| 3700.5 [m] | C  | RRI |
| 3701.2 [m] | C  | OD  |
| 3702.0 [m] | C  | RRI |
| 3703.2 [m] | C  | OD  |
| 3705.3 [m] | C  | OD  |
| 3705.6 [m] | C  | RRI |
| 3707.5 [m] | C  | OD  |
| 3707.5 [m] | C  | RRI |
| 3709.5 [m] | C  | OD  |
| 3710.6 [m] | C  | RRI |
| 3711.2 [m] | C  | OD  |
| 3713.7 [m] | C  | OD  |
| 3713.7 [m] | C  | RRI |
| 3715.4 [m] | C  | OD  |
| 3716.8 [m] | C  | RRI |
| 3717.5 [m] | C  | OD  |



|            |    |     |
|------------|----|-----|
| 3719.4 [m] | C  | OD  |
| 3720.0 [m] | C  | RRI |
| 3720.7 [m] | C  | OD  |
| 3739.0 [m] | DC | RRI |
| 3838.0 [m] | DC | RRI |
| 3857.2 [m] | C  | OD  |
| 3857.4 [m] | C  | RRI |
| 3859.4 [m] | C  | OD  |
| 3861.6 [m] | C  | OD  |
| 3861.9 [m] | C  | RRI |
| 3863.6 [m] | C  | OD  |
| 3865.5 [m] | C  | OD  |
| 3865.7 [m] | C  | RRI |
| 3867.2 [m] | C  | OD  |
| 3868.9 [m] | C  | RRI |
| 3869.5 [m] | C  | OD  |
| 3871.5 [m] | C  | OD  |
| 3871.8 [m] | C  | RRI |
| 3873.5 [m] | C  | OD  |
| 3874.7 [m] | C  | RRI |
| 3875.5 [m] | C  | OD  |
| 3877.0 [m] | C  | RRI |
| 3877.3 [m] | C  | OD  |
| 3879.5 [m] | C  | OD  |
| 3880.8 [m] | C  | RRI |
| 3881.3 [m] | C  | OD  |
| 3882.4 [m] | C  | RRI |
| 3883.1 [m] | C  | OD  |

### Litostratigrafi

| Topp Dyb<br>[mMD RKB] | Litostrat. enhet             |
|-----------------------|------------------------------|
| 710                   | <a href="#">NORDLAND GP</a>  |
| 710                   | <a href="#">NAUST FM</a>     |
| 1354                  | <a href="#">HORDALAND GP</a> |
| 1354                  | <a href="#">BRYGGE FM</a>    |
| 1379                  | <a href="#">ROGALAND GP</a>  |
| 1379                  | <a href="#">TARE FM</a>      |
| 1504                  | <a href="#">TANG FM</a>      |



|      |                                 |
|------|---------------------------------|
| 1642 | <a href="#">SHETLAND GP</a>     |
| 1642 | <a href="#">SPRINGAR FM</a>     |
| 2154 | <a href="#">NISE FM</a>         |
| 2525 | <a href="#">KVITNOS FM</a>      |
| 3688 | <a href="#">CROMER KNOLL GP</a> |
| 3688 | <a href="#">LYSING FM</a>       |
| 3746 | <a href="#">LANGE FM</a>        |

### Spleisede logger

| Dokument navn        | Dokument format | Dokument størrelse [KB] |
|----------------------|-----------------|-------------------------|
| <a href="#">3259</a> | pdf             | 0.85                    |

### Geokjemisk informasjon

| Dokument navn          | Dokument format | Dokument størrelse [KB] |
|------------------------|-----------------|-------------------------|
| <a href="#">3259_1</a> | pdf             | 1.14                    |

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

| Dokument navn                                    | Dokument format | Dokument størrelse [KB] |
|--------------------------------------------------|-----------------|-------------------------|
| <a href="#">3259_6505_10_1_COMPLETION_LOG</a>    | .pdf            | 19.96                   |
| <a href="#">3259_6505_10_1_COMPLETION_REPORT</a> | .PDF            | 82.50                   |

### Logger

| Type logg          | Topp dyp for logg [m] | Bunn dyp for logg [m] |
|--------------------|-----------------------|-----------------------|
| CDR                | 761                   | 1273                  |
| CDR                | 3494                  | 4515                  |
| CDR CDN ISON       | 1300                  | 3469                  |
| CST GR             | 1307                  | 2462                  |
| CST GR             | 2528                  | 3676                  |
| CST GR             | 2552                  | 4997                  |
| DLL MSFL CNL SP AS | 4145                  | 5031                  |





|                      |      |      |
|----------------------|------|------|
| DLL MSFL CNL SP ASGR | 1296 | 2486 |
| DLL MSFL SP LDL CNL  | 3300 | 4186 |
| DSI NGT ACTS         | 1296 | 2475 |
| DSI NGT FMI GR       | 3300 | 4186 |
| LDS APS HNGS         | 3350 | 3530 |
| LDS APS HNGS         | 3675 | 3930 |
| LDS APS HNGS         | 4145 | 5031 |
| MDT GR               | 3364 | 4965 |
| MDT GR               | 3366 | 3857 |
| VSP GR               | 710  | 2475 |
| VSP GR               | 785  | 5032 |

### Foringsrør og formasjonsstyrketester

| Type utforing | Utforing<br>diam.<br>[tommer] | Utforing<br>dybde<br>[m] | Brønnbane<br>diam.<br>[tommer] | Brønnbane<br>dyp<br>[m] | LOT/FIT slam<br>eqv.<br>[g/cm3] | Type<br>formasjonstest |
|---------------|-------------------------------|--------------------------|--------------------------------|-------------------------|---------------------------------|------------------------|
| CONDUCTOR     | 30                            | 782.0                    | 36                             | 788.0                   | 0.00                            | LOT                    |
| SURF.COND.    | 20                            | 1296.0                   | 26                             | 1301.0                  | 1.37                            | LOT                    |
| INTERM.       | 13 3/8                        | 2518.0                   | 16                             | 2526.0                  | 1.59                            | LOT                    |
| OPEN HOLE     |                               | 5028.0                   | 12 1/4                         | 5028.0                  | 0.00                            | LOT                    |

### Boreslam

| Dybde<br>MD [m] | Egenvekt,<br>slam<br>[g/cm3] | Viskositet,<br>slam<br>[mPa.s] | Flytegrense<br>[Pa] | Type slam   | Dato, måling |
|-----------------|------------------------------|--------------------------------|---------------------|-------------|--------------|
| 709             | 1.20                         | 1.0                            |                     | SPUD MUD    |              |
| 1301            | 1.22                         | 15.0                           | 1.0                 | BARASILC    |              |
| 4535            | 1.42                         | 36.0                           | 13.4                | BARASILC    |              |
| 4571            | 1.42                         | 37.0                           | 11.0                | NACL/KCL/GE |              |
| 5028            | 1.42                         | 37.0                           | 9.6                 | NACL/POLYME |              |

### 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="#">3259 Formation pressure (Formasjonstrykk)</a> | PDF             | 0.28                    |

