



## Generell informasjon

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| Brønnbane navn                           | 6506/12-12 S                                    |
| 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                                   |
| Felt                                     | <a href="#">ÅSGARD</a>                          |
| Funn                                     | <a href="#">6506/12-12 S (Smørbukk Nordøst)</a> |
| Brønn navn                               | 6506/12-12                                      |
| Seismisk lokalisering                    | inline 4240 & crossline 2687- NH0609            |
| Utvinningstillatelse                     | <a href="#">094</a>                             |
| Boreoperatør                             | StatoilHydro Petroleum AS                       |
| Boretillatelse                           | 1256-L                                          |
| Boreinnretning                           | <a href="#">TRANSOCEAN LEADER</a>               |
| Boredager                                | 67                                              |
| Borestart                                | 01.06.2009                                      |
| Boreslutt                                | 06.08.2009                                      |
| Frigitt dato                             | 06.08.2011                                      |
| Publiseringsdato                         | 06.08.2011                                      |
| Opprinnelig formål                       | APPRAISAL                                       |
| Gjenåpnet                                | NO                                              |
| Innhold                                  | OIL/GAS                                         |
| Funnbrønnbane                            | YES                                             |
| 1. nivå med hydrokarboner, alder         | LATE CRETACEOUS                                 |
| 1. nivå med hydrokarboner, formasjon.    | LANGE FM                                        |
| 2. nivå med hydrokarboner, alder         | MIDDLE JURASSIC                                 |
| 2. nivå med hydrokarboner, formasjon     | FANGST GP                                       |
| 3. nivå med hydrokarboner, alder         | EARLY JURASSIC                                  |
| 3. nivå med hydrokarboner, formasjon     | BÅT GP                                          |
| Avstand, boredekk - midlere havflate [m] | 23.5                                            |
| Vanndybde ved midlere havflate [m]       | 301.0                                           |
| Totalt målt dybde (MD) [m RKB]           | 5508.0                                          |
| Totalt vertikalt dybde (TVD) [m RKB]     | 4904.0                                          |



|                             |                 |
|-----------------------------|-----------------|
| Maks inklinasjon [°]        | 49.45           |
| Eldste penetrerte alder     | EARLY JURASSIC  |
| Eldste penetrerte formasjon | ÅRE FM          |
| Geodetisk datum             | ED50            |
| NS grader                   | 65° 13' 1.19" N |
| ØV grader                   | 6° 54' 29.77" E |
| NS UTM [m]                  | 7234441.75      |
| ØV UTM [m]                  | 402170.96       |
| UTM sone                    | 32              |
| NPDID for brønnbanen        | 6144            |

## Brønnhistorie



## General

Well 6506/12-12 S was drilled on the northern part of the Smørbukk structure on the Halten Terrace in the Norwegian Sea. The primary objective was to prove hydrocarbon saturation in the main target reservoir zones in a down flank position in the Smørbukk NE KG segment. Secondary objectives were to obtain pressure and stratigraphic control for placing a sidetrack (6506/12-12 A) for coring and field development (producer well); and to acquire data on the Cretaceous Grizzly prospect.

## Operations and results

A 9 7/8" pilot hole, 6506/12-U-15, was drilled to 854 m prior to the main hole.

Well 6506/12-12 S was spudded with the semi-submersible installation Transocean Leader on 1 June 2009 and drilled to TD at 5508 m, 12 m into the Early Jurassic Åre Formation. No shallow gas was observed by the ROV or on the MWD logs while drilling the 9 7/8" shallow gas pilot hole or the 26" holes. A kick was taken in the top of the Garn Formation, just below the 9 5/8" casing shoe. The well was drilled with Seawater and bentonite down to 1061 m, with Performadril water based mud from 1061 m to 2244 m, and with XP-07 oil based mud from 2244 m to TD.

The 6506/12-12 S well penetrated rocks of Quaternary, Tertiary, Cretaceous and Jurassic age. The well penetrated the secondary targets in the Cretaceous Lysing and Lange Formations (Grizzly prospect) at 3534 m and 4088 m, respectively. Indications of hydrocarbons were observed in the core and cuttings in the Intra Lange Sandstone, but the reservoir quality did not look too promising. The top of the Garn Formation was encountered at 4769.50 m, which is 19 m deeper than prognosis. The main reservoir target, the Lower Ror sandstone unit was encountered at 5176 m, which is 7 m shallower than prognosis. The well indicated hydrocarbons in the Garn, Ile, Tofte, Lower Ror sandstone unit and the Upper/Middle Tilje Formation, but water in the Tilje 3 and Tilje 1 reservoir zones.

A core was cut in the Lange Formation sandstone unit from 4132 - 4168 m. Pressure points were recorded with the LWD stethoscope tool, but due to pressure depletion from the Åsgard production and/or few good pressure points no fluid contacts could be established in any of the reservoir zones. No wire line fluid samples were taken.

Well bore 6506/12-12 S was permanently plugged back to the 9 5/8" casing at 4754 m and prepared for sidetracking on 6 August 2009. It has been re-classified as a wildcat.

## Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

| Borekaksprøve, topp dybde [m] | Borekaksprøve, bunn dybde [m] |
|-------------------------------|-------------------------------|
| 1060.00                       | 5508.00                       |

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

## Borekjerter i Sokkeldirektoratet



## Faktasider

### Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 21:59

| Kjerneprøve nummer | Kjerneprøve - topp dybde | Kjerneprøve - bunn dybde | Kjerneprøve dybde - enhet |
|--------------------|--------------------------|--------------------------|---------------------------|
| 1                  | 4132.0                   | 4167.0                   | [m ]                      |

|                                       |      |
|---------------------------------------|------|
| Total kjerneprøve lengde [m]          | 35.0 |
| Kjerner tilgjengelig for prøvetaking? | YES  |

### Litostratigrafi

| Topp Dyb [mMD RKB] | Litostrat. enhet                |
|--------------------|---------------------------------|
| 325                | <a href="#">NORDLAND GP</a>     |
| 325                | <a href="#">NAUST FM</a>        |
| 1519               | <a href="#">KAI FM</a>          |
| 2002               | <a href="#">HORDALAND GP</a>    |
| 2002               | <a href="#">BRYGGE FM</a>       |
| 2367               | <a href="#">TARE FM</a>         |
| 2454               | <a href="#">TANG FM</a>         |
| 2541               | <a href="#">SHETLAND GP</a>     |
| 2541               | <a href="#">SPRINGAR FM</a>     |
| 2804               | <a href="#">NISE FM</a>         |
| 3077               | <a href="#">KVITNOS FM</a>      |
| 3534               | <a href="#">CROMER KNOLL GP</a> |
| 3534               | <a href="#">LYSING FM</a>       |
| 3580               | <a href="#">LANGE FM</a>        |
| 4088               | <a href="#">NO FORMAL NAME</a>  |
| 4172               | <a href="#">LANGE FM</a>        |
| 4393               | <a href="#">LYR FM</a>          |
| 4408               | <a href="#">VIKING GP</a>       |
| 4408               | <a href="#">SPEKK FM</a>        |
| 4457               | <a href="#">MELKE FM</a>        |
| 4769               | <a href="#">FANGST GP</a>       |
| 4769               | <a href="#">GARN FM</a>         |
| 4828               | <a href="#">NOT FM</a>          |
| 4868               | <a href="#">ILE FM</a>          |
| 4991               | <a href="#">BÅT GP</a>          |
| 4991               | <a href="#">ROR FM</a>          |
| 5082               | <a href="#">TOFTE FM</a>        |
| 5167               | <a href="#">ROR FM</a>          |



|      |                          |
|------|--------------------------|
| 5218 | <a href="#">TILJE FM</a> |
| 5496 | <a href="#">ÅRE FM</a>   |

### Logger

| Type logg           | Topp dyp<br>for logg [m] | Bunn dyp for<br>logg [m] |
|---------------------|--------------------------|--------------------------|
| GR DSI              | 4774                     | 5495                     |
| MWD - ARC8          | 2244                     | 4774                     |
| MWD - ARC9          | 380                      | 2240                     |
| MWD - ECO           | 4774                     | 4778                     |
| MWD - ECO STETH     | 4787                     | 5497                     |
| MWD - TELESCOPE     | 129                      | 192                      |
| PEX150 MSIP PPC AIT | 2243                     | 4758                     |

### 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                            | 385.0                    | 36                             | 385.0                   | 0.00                            | LOT                    |
| SURF.COND.    | 20                            | 1050.0                   | 26                             | 1061.0                  | 1.58                            | LOT                    |
| INTERM.       | 13 3/8                        | 2243.0                   | 17 1/2                         | 2244.0                  | 1.78                            | LOT                    |
| LINER         | 9 5/8                         | 4774.0                   | 12 1/4                         | 4774.0                  | 1.40                            | LOT                    |
| OPEN HOLE     |                               | 5508.0                   | 8 1/2                          | 5508.0                  | 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 |
|-----------------|------------------------------|--------------------------------|---------------------|--------------|--------------|
| 339             | 1.04                         | 28.0                           |                     | Spud Mud     |              |
| 378             | 1.30                         | 15.0                           |                     | Spud Mud     |              |
| 392             | 1.30                         | 15.0                           |                     | Ultradрил    |              |
| 1000            | 1.04                         | 11.0                           |                     | Spud Mud     |              |
| 1058            | 1.25                         | 33.0                           |                     | Performadril |              |
| 1476            | 1.37                         | 36.0                           |                     | Performadril |              |
| 2205            | 1.45                         | 37.0                           |                     | Performadril |              |
| 2252            | 1.45                         | 38.0                           |                     | Performadril |              |
| 2795            | 1.73                         | 38.0                           |                     | XP-07 - #14  |              |
| 4132            | 1.73                         | 36.0                           |                     | XP-07 - #14  |              |



|      |      |      |  |             |  |
|------|------|------|--|-------------|--|
| 4613 | 1.73 | 34.0 |  | XP-07 - #14 |  |
| 4785 | 1.22 | 20.0 |  | XP-07 - #14 |  |
| 4785 | 1.78 | 32.0 |  | XP-07 - #14 |  |
| 4785 | 1.75 | 29.0 |  | XP-07 - #14 |  |
| 4785 | 1.73 | 31.0 |  | XP-07 - #14 |  |
| 4802 | 1.35 | 18.0 |  | XP-07 - #14 |  |
| 4854 | 1.65 | 27.0 |  | XP-07 - #14 |  |
| 5310 | 1.39 | 23.0 |  | XP-07 - #14 |  |
| 5490 | 1.36 | 19.0 |  | XP-07 - #14 |  |
| 5508 | 1.35 | 19.0 |  | XP-07 - #14 |  |

## 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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

| Dokument navn                                             | Dokument format | Dokument størrelse [KB] |
|-----------------------------------------------------------|-----------------|-------------------------|
| <a href="#">6144 Formation pressure (Formasjonstrykk)</a> | pdf             | 0.29                    |

