

**General information**

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Wellbore name                      | 7120/6-3 S                            |
| Type                               | EXPLORATION                           |
| Purpose                            | WILDCAT                               |
| Status                             | P&A                                   |
| Press release                      | <a href="#">link to press release</a> |
| Factmaps in new window             | <a href="#">link to map</a>           |
| Main area                          | BARENTS SEA                           |
| Well name                          | 7120/6-3                              |
| Seismic location                   | LN11 IM07-inline 3490 & crosline 1356 |
| Production licence                 | <a href="#">490</a>                   |
| Drilling operator                  | Lundin Norway AS                      |
| Drill permit                       | 1392-L                                |
| Drilling facility                  | <a href="#">TRANSOCEAN ARCTIC</a>     |
| Drilling days                      | 52                                    |
| Entered date                       | 10.10.2012                            |
| Completed date                     | 30.11.2012                            |
| Release date                       | 30.11.2014                            |
| Publication date                   | 11.03.2015                            |
| Purpose - planned                  | WILDCAT                               |
| Reentry                            | NO                                    |
| Content                            | SHOWS                                 |
| Discovery wellbore                 | NO                                    |
| Kelly bushing elevation [m]        | 24.0                                  |
| Water depth [m]                    | 327.0                                 |
| Total depth (MD) [m RKB]           | 3030.0                                |
| Final vertical depth (TVD) [m RKB] | 3017.0                                |
| Maximum inclination [°]            | 16                                    |
| Bottom hole temperature [°C]       | 116                                   |
| Oldest penetrated age              | EARLY JURASSIC                        |
| Oldest penetrated formation        | NORDMELA FM                           |
| Geodetic datum                     | ED50                                  |
| NS degrees                         | 71° 41' 2.43" N                       |
| EW degrees                         | 20° 43' 16.97" E                      |
| NS UTM [m]                         | 7953925.23                            |
| EW UTM [m]                         | 490226.96                             |
| UTM zone                           | 34                                    |
| NPDID wellbore                     | 6772                                  |



## Wellbore history

### General

Well 7120/6-3 S was drilled on the Juksa prospect in the north-western part of the Hammerfest Basin, in a sub-basin north of the Snøhvit field in the Barents Sea. The primary objective was to test the lower part of the Early Cretaceous Kolmule Formation. Secondary target was wedges of intra-formational quartzitic sandstones in the uppermost Hekkingen/lowermost Knurr Formations. Tertiary target was sandstones in the Early-Middle Jurassic sequence.

### Operations and results

Wildcat well 7120/6-3 S was spudded with the semi-submersible installation Transocean Arctic on 10 October 2012 and drilled to TD at 3030 m (3017 m TVD) in the Early Jurassic Nordmela Formation. An 8 1/2" pilot hole was drilled from seabed to 780 m to check for shallow gas. No shallow gas was seen. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 770 m, with KCl/GEM/polymer mud from 770 m to TD.

The well encountered sandstones with good shows in the lower Kolmule Formation, but they produced water with only traces of hydrocarbons during RCI sampling. No sands or hydrocarbon shows were seen in the secondary target, assumed to be the Knurr Formation. Sandstones in the Early-Middle Jurassic Stø Formation were water bearing with shows in side wall cores from the interval 2925 -2976 m. The well penetrated a 2-meter thick organic rich shale (oil prone source rock) at 2416 m in the Kolje Formation. The lower part of the Hekkingen Formation also had a high organic content.

One core was cut from 1974 to 1989.3 m with 100% recovery in the Kolmule Formation. RCI fluid samples were taken at 1977 m, 1982 m, and 1993.5 m in the lower Kolmule sandstones. Water with traces of oil was retrieved in these samples. RCI fluid samples were taken also at 2911 m (water) in the Stø Formation and at 3012 m (water) in the Nordmela Formation.

The well was permanently abandoned on 30 November 2012 as a well with shows.

### Testing

No drill stem test was performed.

## Cuttings at the Norwegian Offshore Directorate

| Cutting sample, top depth [m] | Cutting samples, bottom depth [m] |
|-------------------------------|-----------------------------------|
| 790.00                        | 3030.00                           |

|                                  |     |
|----------------------------------|-----|
| Cuttings available for sampling? | YES |
|----------------------------------|-----|

## Cores at the Norwegian Offshore Directorate



| Core sample number | Core sample - top depth | Core sample - bottom depth | Core sample depth - uom |
|--------------------|-------------------------|----------------------------|-------------------------|
| 1                  | 1974.0                  | 1989.3                     | [m ]                    |

|                               |      |
|-------------------------------|------|
| Total core sample length [m]  | 15.3 |
| Cores available for sampling? | YES  |

**Palynological slides at the Norwegian Offshore Directorate**

| Sample depth | Depth unit | Sample type | Laboratory |
|--------------|------------|-------------|------------|
| 790.0        | [m]        | DC          | ROBERTSO   |
| 830.0        | [m]        | DC          | ROBERT     |
| 870.0        | [m]        | DC          | ROBERT     |
| 910.0        | [m]        | DC          | ROBERT     |
| 950.0        | [m]        | DC          | ROBERT     |
| 990.0        | [m]        | DC          | ROBERT     |
| 1030.0       | [m]        | DC          | ROBERT     |
| 1070.0       | [m]        | DC          | ROBERT     |
| 1110.0       | [m]        | DC          | ROBERT     |
| 1150.0       | [m]        | DC          | ROBERT     |
| 1190.0       | [m]        | DC          | ROBERT     |
| 1230.0       | [m]        | DC          | ROBERT     |
| 1250.0       | [m]        | DC          | ROBERT     |
| 1260.0       | [m]        | DC          | ROBERT     |
| 1270.0       | [m]        | DC          | ROBERT     |
| 1280.0       | [m]        | DC          | ROBERT     |
| 1290.0       | [m]        | DC          | ROBERT     |
| 1300.0       | [m]        | DC          | ROBERT     |
| 1310.0       | [m]        | DC          | ROBERT     |
| 1320.0       | [m]        | DC          | ROBERT     |
| 1330.0       | [m]        | DC          | ROBERT     |
| 1340.0       | [m]        | DC          | ROBERT     |
| 1350.0       | [m]        | DC          | ROBERT     |
| 1360.0       | [m]        | DC          | ROBERT     |
| 1370.0       | [m]        | DC          | ROBERT     |
| 1380.0       | [m]        | DC          | ROBERT     |
| 1390.0       | [m]        | DC          | ROBERT     |
| 1400.0       | [m]        | DC          | ROBERT     |
| 1410.0       | [m]        | DC          | ROBERT     |
| 1420.0       | [m]        | DC          | ROBERT     |



|            |    |        |
|------------|----|--------|
| 1430.0 [m] | DC | ROBERT |
| 1440.0 [m] | DC | ROBERT |
| 1450.0 [m] | DC | ROBERT |
| 1460.0 [m] | DC | ROBERT |
| 1470.0 [m] | DC | ROBERT |
| 1480.0 [m] | DC | ROBERT |
| 1490.0 [m] | DC | ROBERT |
| 1500.0 [m] | DC | ROBERT |
| 1510.0 [m] | DC | ROBERT |
| 1520.0 [m] | DC | ROBERT |
| 1530.0 [m] | DC | ROBERT |
| 1540.0 [m] | DC | ROBERT |
| 1580.0 [m] | DC | ROBERT |
| 1590.0 [m] | DC | ROBERT |
| 1600.0 [m] | DC | ROBERT |
| 1610.0 [m] | DC | ROBERT |
| 1620.0 [m] | DC | ROBERT |
| 1630.0 [m] | DC | ROBERT |
| 1640.0 [m] | DC | ROBERT |
| 1650.0 [m] | DC | ROBERT |
| 1660.0 [m] | DC | ROBERT |
| 1670.0 [m] | DC | ROBERT |
| 1680.0 [m] | DC | ROBERT |
| 1690.0 [m] | DC | ROBERT |
| 1700.0 [m] | DC | ROBERT |
| 1709.0 [m] | DC | ROBERT |
| 1718.0 [m] | DC | ROBERT |
| 1727.0 [m] | DC | ROBERT |
| 1736.0 [m] | DC | ROBERT |
| 1745.0 [m] | DC | ROBERT |
| 1754.0 [m] | DC | ROBERT |
| 1763.0 [m] | DC | ROBERT |
| 1772.0 [m] | DC | ROBERT |
| 1781.0 [m] | DC | ROBERT |
| 1790.0 [m] | DC | ROBERT |
| 1799.0 [m] | DC | ROBERT |
| 1808.0 [m] | DC | ROBERT |
| 1817.0 [m] | DC | ROBERT |
| 1826.0 [m] | DC | ROBERT |
| 1835.0 [m] | DC | ROBERT |



|            |    |        |
|------------|----|--------|
| 1844.0 [m] | DC | ROBERT |
| 1853.0 [m] | DC | ROBERT |
| 1862.0 [m] | DC | ROBERT |
| 1871.0 [m] | DC | ROBERT |
| 1880.0 [m] | DC | ROBERT |
| 1889.0 [m] | DC | ROBERT |
| 1898.0 [m] | DC | ROBERT |
| 1916.0 [m] | DC | ROBERT |
| 1925.0 [m] | DC | ROBERT |
| 1934.0 [m] | DC | ROBERT |
| 1943.0 [m] | DC | ROBERT |
| 1952.0 [m] | DC | ROBERT |
| 1961.0 [m] | DC | ROBERT |
| 1970.0 [m] | DC | ROBERT |
| 1974.0 [m] | C  | ROBERT |
| 1974.7 [m] | C  | ROBERT |
| 1975.3 [m] | C  | ROBERT |
| 1976.0 [m] | C  | ROBERT |
| 1977.2 [m] | C  | ROBERT |
| 1978.5 [m] | C  | ROBERT |
| 1978.7 [m] | C  | ROBERT |
| 1982.8 [m] | C  | ROBERT |
| 1983.5 [m] | C  | ROBERT |
| 1983.5 [m] | C  | ROBERT |
| 1984.5 [m] | C  | ROBERT |
| 1984.7 [m] | C  | ROBERT |
| 1985.2 [m] | C  | ROBERT |
| 1985.7 [m] | C  | ROBERT |
| 1987.1 [m] | C  | ROBERT |
| 1987.5 [m] | C  | ROBERT |
| 1988.8 [m] | C  | ROBERT |
| 1997.0 [m] | DC | ROBERT |
| 2006.0 [m] | DC | ROBERT |
| 2015.0 [m] | DC | ROBERT |
| 2024.0 [m] | DC | ROBERT |
| 2042.0 [m] | DC | ROBERT |
| 2051.0 [m] | DC | ROBERT |
| 2069.0 [m] | DC | ROBERT |
| 2078.0 [m] | DC | ROBERT |
| 2096.0 [m] | DC | ROBERT |



|        |     |    |        |
|--------|-----|----|--------|
| 2105.0 | [m] | DC | ROBERT |
| 2123.0 | [m] | DC | ROBERT |
| 2132.0 | [m] | DC | ROBERT |
| 2141.0 | [m] | DC | ROBERT |
| 2150.0 | [m] | DC | ROBERT |
| 2159.0 | [m] | DC | ROBERT |
| 2168.0 | [m] | DC | ROBERT |
| 2177.0 | [m] | DC | ROBERT |
| 2186.0 | [m] | DC | ROBERT |
| 2195.0 | [m] | DC | ROBERT |
| 2204.0 | [m] | DC | ROBERT |
| 2213.0 | [m] | DC | ROBERT |
| 2231.0 | [m] | DC | ROBERT |
| 2240.0 | [m] | DC | ROBERT |
| 2249.0 | [m] | DC | ROBERT |
| 2258.0 | [m] | DC | ROBERT |
| 2267.0 | [m] | DC | ROBERT |
| 2294.0 | [m] | DC | ROBERT |
| 2303.0 | [m] | DC | ROBERT |
| 2312.0 | [m] | DC | ROBERT |
| 2330.0 | [m] | DC | ROBERT |
| 2357.0 | [m] | DC | ROBERT |
| 2366.0 | [m] | DC | ROBERT |
| 2375.0 | [m] | DC | ROBERT |
| 2393.0 | [m] | DC | ROBERT |
| 2411.0 | [m] | DC | ROBERT |
| 2420.0 | [m] | DC | ROBERT |
| 2429.0 | [m] | DC | ROBERT |
| 2447.0 | [m] | DC | ROBERT |
| 2456.0 | [m] | DC | ROBERT |
| 2465.0 | [m] | DC | ROBERT |
| 2474.0 | [m] | DC | ROBERT |
| 2483.0 | [m] | DC | ROBERT |
| 2492.0 | [m] | DC | ROBERT |
| 2500.0 | [m] | DC | ROBERT |
| 2510.0 | [m] | DC | ROBERT |
| 2609.0 | [m] | DC | ROBERT |
| 2618.0 | [m] | DC | ROBERT |
| 2627.0 | [m] | DC | ROBERT |
| 2636.0 | [m] | DC | ROBERT |



|        |     |    |        |
|--------|-----|----|--------|
| 2645.0 | [m] | DC | ROBERT |
| 2654.0 | [m] | DC | ROBERT |
| 2663.0 | [m] | DC | ROBERT |
| 2672.0 | [m] | DC | ROBERT |
| 2681.0 | [m] | DC | ROBERT |
| 2690.0 | [m] | DC | ROBERT |
| 2699.0 | [m] | DC | ROBERT |
| 2708.0 | [m] | DC | ROBERT |
| 2717.0 | [m] | DC | ROBERT |
| 2726.0 | [m] | DC | ROBERT |
| 2735.0 | [m] | DC | ROBERT |
| 2744.0 | [m] | DC | ROBERT |
| 2753.0 | [m] | DC | ROBERT |
| 2762.0 | [m] | DC | ROBERT |
| 2771.0 | [m] | DC | ROBERT |
| 2780.0 | [m] | DC | ROBERT |
| 2789.0 | [m] | DC | ROBERT |
| 2798.0 | [m] | DC | ROBERT |
| 2810.0 | [m] | DC | ROBERT |
| 2816.0 | [m] | DC | ROBERT |
| 2825.0 | [m] | DC | ROBERT |
| 2834.0 | [m] | DC | ROBERT |
| 2843.0 | [m] | DC | ROBERT |
| 2852.0 | [m] | DC | ROBERT |
| 2861.0 | [m] | DC | ROBERT |
| 2873.0 | [m] | DC | ROBERT |
| 2879.0 | [m] | DC | ROBERT |
| 2888.0 | [m] | DC | ROBERT |
| 2897.0 | [m] | DC | ROBERT |
| 2906.0 | [m] | DC | ROBERT |
| 2915.0 | [m] | DC | ROBERT |
| 2924.0 | [m] | DC | ROBERT |
| 2933.0 | [m] | DC | ROBERT |
| 2942.0 | [m] | DC | ROBERT |
| 2951.0 | [m] | DC | ROBERT |
| 2960.0 | [m] | DC | ROBERT |
| 2969.0 | [m] | DC | ROBERT |
| 2996.0 | [m] | DC | ROBERT |
| 3005.0 | [m] | DC | ROBERT |
| 3014.0 | [m] | DC | ROBERT |



|        |     |    |        |
|--------|-----|----|--------|
| 3023.0 | [m] | DC | ROBERT |
| 3030.0 | [m] | DC | ROBERT |

**Lithostratigraphy**

| Top depth<br>[mMD RKB] | Lithostrat. unit                 |
|------------------------|----------------------------------|
| 351                    | <a href="#">NORDLAND GP</a>      |
| 351                    | <a href="#">NO FORMAL NAME</a>   |
| 370                    | <a href="#">SOTBAKKEN GP</a>     |
| 370                    | <a href="#">TORSK FM</a>         |
| 1256                   | <a href="#">NYGRUNNEN GP</a>     |
| 1256                   | <a href="#">KVEITE FM</a>        |
| 1289                   | <a href="#">ADVENTDALEN GP</a>   |
| 1289                   | <a href="#">KOLMULE FM</a>       |
| 1970                   | <a href="#">UNDIFFERENTIATED</a> |
| 1996                   | <a href="#">KOLJE FM</a>         |
| 2665                   | <a href="#">KNURR FM</a>         |
| 2811                   | <a href="#">HEKKINGEN FM</a>     |
| 2893                   | <a href="#">KAPP TOSCANA GP</a>  |
| 2893                   | <a href="#">STØ FM</a>           |
| 2979                   | <a href="#">NORDMELA FM</a>      |

**Logs**

| Log type                            | Log top<br>depth [m] | Log bottom<br>depth [m] |
|-------------------------------------|----------------------|-------------------------|
| DSL CN ZDL RTEX MLL                 | 1898                 | 2497                    |
| DSL CN ZDL RTEX MLL ORIT XMAC       | 2497                 | 3029                    |
| DSL MCOR                            | 1945                 | 2473                    |
| DSL PCOR                            | 2512                 | 3017                    |
| DSL RCX IFX                         | 1971                 | 1995                    |
| DSL XMAC ORIT STAR UXPL             | 1898                 | 2479                    |
| GR RCX IFX                          | 2907                 | 3012                    |
| MWD - INC RES GR                    | 735                  | 1898                    |
| MWD - OT ORD CCN APX                | 329                  | 777                     |
| MWD - PWD GR RES DIR DEN CAL<br>NEU | 735                  | 1898                    |
| MWD - PWD GR RES DIR DEN CAL<br>NEU | 1847                 | 3027                    |
| VSP                                 | 390                  | 3015                    |

**Casing and leak-off tests**

| Casing type | Casing diam.<br>[inch] | Casing depth<br>[m] | Hole diam.<br>[inch] | Hole depth<br>[m] | LOT/FIT mud<br>eqv.<br>[g/cm3] | Formation test<br>type |
|-------------|------------------------|---------------------|----------------------|-------------------|--------------------------------|------------------------|
| CONDUCTOR   | 30                     | 417.0               | 36                   | 421.0             | 0.00                           |                        |
| SURF.COND.  | 20                     | 766.0               | 26                   | 772.0             | 1.58                           | LOT                    |
| OPEN HOLE   |                        | 777.0               | 17 1/2               | 777.0             | 0.00                           |                        |
| PILOT HOLE  |                        | 780.0               | 8 1/2                | 780.0             | 0.00                           |                        |
| INTERM.     | 9 5/8                  | 1898.0              | 12 1/4               | 1903.0            | 1.50                           | LOT                    |
| LINER       | 7                      | 2498.0              | 8 1/2                | 2500.0            | 1.57                           | LOT                    |

**Drilling mud**

| Depth<br>MD [m] | Mud<br>weight<br>[g/cm3] | Visc.<br>[mPa.s] | Yield point<br>[Pa] | Mud type   | Date<br>measured |
|-----------------|--------------------------|------------------|---------------------|------------|------------------|
| 357             | 1.03                     | 14.0             |                     | Spud Mud   |                  |
| 772             | 1.35                     | 15.0             |                     | Water Base |                  |
| 1903            | 1.35                     | 16.0             |                     | Polymer    |                  |
| 2500            | 1.11                     | 22.0             |                     | Polymer    |                  |
| 3030            | 1.11                     | 20.0             |                     | Polymer    |                  |

**Pressure plots**

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

| Document name                                             | Document<br>format | Document size<br>[MB] |
|-----------------------------------------------------------|--------------------|-----------------------|
| <a href="#">6772 Formation pressure (Formasjonstrykk)</a> | pdf                | 0.27                  |

