# Summary report

**Wellbore: 15/9-F-12** **Period: 2007-08-12 00:00 - 2007-08-13 00:00**

| | |
|---|---|
| **Status:** | normal |
| **Report creation time:** | 2018-05-03 13:51 |
| **Report number:** | 61 |
| **Days Ahead/Behind (+/-):** | |
| **Operator:** | Statoil |
| **Rig Name:** | MÆRSK INSPIRER |
| **Drilling contractor:** | Mærsk Contractors |
| **Spud Date:** | 2007-03-15 00:00 |
| **Wellbore type:** | |
| **Elevation RKB-MSL (m):** | 54.9 |
| **Water depth MSL (m):** | 91 |
| **Tight well:** | Y |
| **HPHT:** | Y |
| **Temperature ():** | |
| **Pressure ():** | |
| **Date Well Complete:** | 2007-08-26 |

| | |
|---|---|
| **Dist Drilled (m):** | 164 |
| **Penetration rate (m/h):** | -999.99 |
| **Hole Dia (in):** | 12.25 |
| **Pressure Test Type:** | formation integrity test |
| **Formation strength (g/cm3):** | 1.48 |
| **Dia Last Casing ():** | |

| | |
|---|---|
| **Depth at Kick Off mMD:** | |
| **Depth at Kick Off mTVD:** | |
| **Depth mMd:** | 2740 |
| **Depth mTVD:** | 2627.3 |
| **Plug Back Depth mMD:** | |
| **Depth at formation strength mMD:** | 2506 |
| **Depth At Formation Strength mTVD:** | 2419.5 |
| **Depth At Last Casing mMD:** | 1357 |
| **Depth At Last Casing mTVD:** | 1333 |

## Summary of activities (24 Hours)

Drilled 12 1/4" hole from 2640 m to 2740 m MD. Circulated hole clean. Took 3 pressure readings with StethoScope in Ty formation. Continued drilling 12 1/4" hole from 2740 to 2766 m MD.

## Summary of planned activities (24 Hours)

Drill 12 1/4" hole from 2766 m to 3020 m MD.

## Operations

| Start time | End time | End Depth mMD | Main - Sub Activity | State | Remark |
|---|---|---|---|---|---|
| 00:00 | 01:15 | 2576 | interruption -- repair | ok | Continued to trouble shoot MWD transmision failure. Down linked tool to 3 bit signal density. Started with bit on bottom and reduced pump rate to keep tool in sync. Got good signal with valid drilling parameters. |
| 01:15 | 04:15 | 2616 | drilling -- drill | ok | Drilled 12 1/4" hole from 2576 m to 2616 m MD with 1.35 sg OBM, 3340 lpm, 200 bar, 180 rpm, 30 kNm, 2-3 MT WOB, ECD 1.365, ROP 20-25 m/hr. Down linked and performed survey as required. PU off bottom and observed well for losses at 2607 m. Well was static. |
| 04:15 | 04:45 | 2616 | interruption -- repair | ok | Lost signal from MWD tool on connection. Started with bit on bottom and reduced pump rate to keep tool in sync. Got good signal with valid drilling parameters. |
| 04:45 | 06:00 | 2640 | drilling -- drill | ok | Drilled 12 1/4" hole from 2616 m to 2640 m MD with 1.35 sg OBM, 3270 lpm, 189 bar, 180 rpm, 30 kNm, 2-3 MT WOB, ECD 1.37, ROP 20 m/hr. Down linked and performed survey as required. |
| 06:00 | 07:15 | 2647 | drilling -- drill | ok | Drilled 12 1/4" hole from 2640 m to 2647 m MD with 1.34 sg OBM, 3300 lpm, 202 bar, 180 rpm, 31-32 kNm, 0-1 MT WOB, ECD 1.37, ROP 5 m/hr. Down linked and performed survey as required. |
| 07:15 | 08:30 | 2647 | interruption -- repair | ok | Reamed from 2646 m to 2610 m while MWD had signal loss. |
| 08:30 | 18:00 | 2740 | drilling -- drill | ok | Drilled 12 1/4" hole from 2647 m to 2740 m MD with 1.35 sg OBM, 3300-3500 lpm, 199-230 bar, 140-180 rpm, 28-44 kNm, 6-8 MT WOB, ECD 1.37, ROP 10-40 m/hr. Down linked and performed survey as required. |
| 18:00 | 19:00 | 2740 | drilling -- circulating conditioning | ok | Circulated hole clean at 3600 lpm, 230 bar, 180 rpm prior to taking pressure points. Reciprocated string. Specified where to take pressure samples with Statoil geologist. |
| 19:00 | 22:30 | 2697 | formation evaluation -- log | ok | POOH and correlated into setting depth at 2697 m, 3425 lpm, 216 bar and no rotation. Down linked tool to 6 bit signal density. Took pressure reading with Stetho Scope at 2679,4 m according to Schlumberger instructions. Up weight 141 MT/down weight 142 MT. Pumped OOH after pressure reading from 2697 to 2640 m, 900 lpm, 21 bar, 90 rpm. Observed 10 MT overpull while POOH after pressure reading. |
| 22:30 | 00:00 | 2619 | interruption -- repair | ok | Had problems down linking to Stetho Scope. Made 3 attempts, recycled tool, down linked to sleep mode and back and worked with different flow rates before the tool took the command . |

## Drilling Fluid

| **Sample Time** | 04:00 | 15:30 | 22:00 |
|---|---|---|---|
| **Sample Point** | Active pit | Flowline | Active pit |
| **Sample Depth mMD** | 2610 | 2727 | 2760 |
| **Fluid Type** | OBM-Standard | OBM-Standard | OBM-Standard |
| **Fluid Density (g/cm3)** | 1.35 | 1.35 | 1.35 |
| **Funnel Visc (s)** | -999.99 | -999.99 | -999.99 |
| **Mf ()** | | | |
| **Pm ()** | | | |
| **Pm filtrate ()** | | | |
| **Chloride ()** | | | |
| **Calcium ()** | | | |
| **Magnesium ()** | | | |
| **Ph** | | | |
| **Excess Lime ()** | | | |
| **Solids** | | | |
| **Sand ()** | | | |
| **Water ()** | | | |
| **Oil ()** | | | |
| **Solids ()** | | | |
| **Corrected solids ()** | | | |
| **High gravity solids ()** | | | |
| **Low gravity solids ()** | | | |
| **Viscometer tests** | | | |
| **Plastic visc. (mPa.s)** | 24 | 24 | 25 |
| **Yield point (Pa)** | 8 | 8 | 10 |
| **Filtration tests** | | | |

| | | | |
|---|---|---|---|
| **Pm filtrate ()** | | | |
| **Filtrate Lthp ()** | | | |
| **Filtrate Hthp ()** | | | |
| **Cake thickn API ()** | | | |
| **Cake thickn HPHT ()** | | | |
| **Test Temp HPHT (degC)** | 120 | 120 | 120 |
| **Comment** | | | |

## Pore Pressure

| Time | Depth mMD | Depth TVD | Equ Mud Weight (g/cm3) | Reading |
|---|---|---|---|---|
| 00:00 | 2520 | | 1.05 | estimated |
| 00:00 | 2591 | | .87 | estimated |
| 00:00 | 2766 | | 1.04 | estimated |

## Survey Station

| Depth mMD | Depth mTVD | Inclination (dega) | Azimuth (dega) | Comment |
|---|---|---|---|---|
| 2617.9 | 2523.2 | 26.64 | 124.65 | |
| 2658.3 | 2558.6 | 30.86 | 121.61 | |
| 2699.1 | 2593.2 | 33.41 | 117.41 | |

## Stratigraphic Information

| Depth to Top of Formation mMD | Depth to Top of Formation mTVD | Description |
|---|---|---|
| 2690.5 | 2586.4 | Ekofisk Fm |
| 2703.5 | 2597 | Tor Fm |

## Lithology Information

| Start Depth mMD | End Depth mMD | Start Depth mTVD | End Depth mTVD | Shows Description | Lithology Description |
|---|---|---|---|---|---|
| 2640 | 2700 | 2544 | 2594 | | Interbedded sandstone and claystone . |
| 2700 | 2710 | 2594 | 2602 | | Interbedded marl and limestone. |
| 2710 | 2766 | 2602 | 2650 | | Limestone. |