

## Summary report

Wellbore: 15/9-F-10

Period: 2009-06-04 00:00 - 2009-06-05 00:00

|                          |                  |
|--------------------------|------------------|
| Status:                  | normal           |
| Report creation time:    | 2018-05-03 13:51 |
| Report number:           | 60               |
| Days Ahead/Behind (+/-): | 28.2             |
| Operator:                | StatoilHydro     |
| Rig Name:                | MÆRSK INSPIRER   |
| Drilling contractor:     | Maersk Drilling  |
| Spud Date:               | 2009-04-06 06:00 |
| Wellbore type:           |                  |
| Elevation RKB-MSL (m):   | 54.9             |
| Water depth MSL (m):     | 91               |
| Tight well:              | Y                |
| HPHT:                    | Y                |
| Temperature ():          |                  |
| Pressure ():             |                  |
| Date Well Complete:      | 2009-06-03       |

|                             |                          |
|-----------------------------|--------------------------|
| Dist Drilled (m):           | -999.99                  |
| Penetration rate (m/h):     | -999.99                  |
| Hole Dia ():                |                          |
| Pressure Test Type:         | formation integrity test |
| Formation strength (g/cm3): | 1.55                     |
| Dia Last Casing ():         |                          |

|                                   |      |
|-----------------------------------|------|
| Depth at Kick Off mMD:            |      |
| Depth at Kick Off mTVD:           |      |
| Depth mMD:                        | 5331 |
| Depth mTVD:                       |      |
| Plug Back Depth mMD:              |      |
| Depth at formation strength mMD:  | 3439 |
| Depth At Formation Strength mTVD: | 2654 |
| Depth At Last Casing mMD:         | 3441 |
| Depth At Last Casing mTVD:        | 2654 |

## Summary of activities (24 Hours)

Circulated and conditioned mud prior to cement job. 2440 l/min, 287 bar. Reduced to 1000 l/min, 65 bar. Mixed new spacer for cement job, due to contaminated first spacer. Performed line test, 200 bar, 10 min.

## Summary of planned activities (24 Hours)

Set 2 x cement plugs from 5331m to 5100m. And 3490m to 3240m according to program.

## Operations

| Start time | End time | End Depth mMD | Main - Sub Activity   | State | Remark   |
|------------|----------|---------------|-----------------------|-------|--|
| 00:00      | 00:30    | 326           | interruption -- other | ok    | Removed PS-21 from RT. Installed master bushing and bowl.  |
| 00:30      | 01:30    | 353           | plug abandon - trip   | ok    | RIH with 3 x 3 1/2" singles to 353 m MD using manual slips. Changed inserts in BX from 3 1/2" to 5". Installed and made up 3 1/2" x 5" x-over. Picked up stand of 5 1/2" DP and made up to x-over.   |
| 01:30      | 02:15    | 353           | interruption -- other | ok    | Removed master bushing and outer ring. Installed PS-30 slips in RT and hooked up same.   |
| 02:15      | 02:30    | 353           | plug abandon - trip   | ok    | Dressed PS-30 with 5" slips inserts.   |
| 02:30      | 04:45    | 1010          | plug abandon - trip   | ok    | RIH with 5" DP from 353 m to 1010 m MD. Got incorrect volume in triptanks, well apparently gaining. Investigated situation, suspected partial plugging of DP. Flowchecked for 1 5 min - lost 200 liter (pipe filling).   |
| 04:45      | 05:15    | 1010          | plug abandon - trip   | ok    | Looked down DP when in slips and observed that pipe was not filled properly. Made up TDS and filled pipe with approx 200 liter before pressure build up. Performed pump test - 11 bar SPP @ 500 lpm and 33 bar SPP @ 1000 lpm - good match with hydraulic simulations. |
| 05:15      | 06:00    | 1291          | plug abandon - trip   | ok    | RIH with 5" DP from 1010 m to 1291 m MD.   |
| 06:00      | 07:30    | 2103          | plug abandon - trip   | ok    | RIH with cement string from 1291m to 2103m MD.   |
| 07:30      | 09:00    | 2103          | plug abandon - trip   | ok    | Emptied trip tank, moved bent 5" DP in derrick. Changed from 5" to 5 1/2" DP handling equipment. Broke circulation with 3000 l/min, 300 bar. (2500 l/min, 229 bar.)  |
| 09:00      | 11:15    | 3440          | plug abandon - trip   | ok    | RIH with cement string from 2103m to 3440m MD.   |
| 11:15      | 11:30    | 3440          | plug abandon - trip   | ok    | Broke circulation at 3440m MD, 500 l/min, 30 bar.  |
| 11:30      | 16:00    | 5168          | plug abandon - trip   | ok    | RIH with cement string from 3440m to 5168m MD.   |
| 16:00      | 18:00    | 5331          | plug abandon - trip   | ok    | Washed down from 5168m to tagging depth, 5331m MD. 500 l/min, 35 bar.  |
| 18:00      | 20:00    | 5326          | drilling -- casing    | ok    | Pulled 5m, staged up pumps, circulated and conditioned mud at 5326m MD, 2400 l/min, 281 bar, 25 rpm, 12-13 kNm. Simultaneously cleaned pit for mixing new spacer for cement job, due to contamination in first spacer.   |
| 20:00      | 00:00    | 5326          | plug abandon - other  | ok    | Cleaned pit for mixing new spacer for cement job, due to contamination in first spacer.  |

## Drilling Fluid

|                       |                  |                  |
|-----------------------|------------------|------------------|
| Sample Time           | 08:00            | 20:00            |
| Sample Point          | Active pit       | Flowline         |
| Sample Depth mMD      | 5331             | 5331             |
| Fluid Type            | Enviromul Yellow | Enviromul Yellow |
| Fluid Density (g/cm3) | 1.33             | 1.35             |
| Funnel Visc (s)       | -999.99          | -999.99          |
| Mf ()                 |                  |                  |
| Pm ()                 |                  |                  |
| Pm filtrate ()        |                  |                  |
| Chloride ()           |                  |                  |
| Calcium ()            |                  |                  |
| Magnesium ()          |                  |                  |
| Ph                    |                  |                  |
| Excess Lime ()        |                  |                  |
| Solids                |                  |                  |
| Sand ()               |                  |                  |
| Water ()              |                  |                  |
| Oil ()                |                  |                  |
| Solids ()             |                  |                  |
| Corrected solids ()   |                  |                  |

|                               |     |     |
|-------------------------------|-----|-----|
| <b>High gravity solids ()</b> |     |     |
| <b>Low gravity solids ()</b>  |     |     |
| <b>Viscometer tests</b>       |     |     |
| <b>Plastic visc. (mPa.s)</b>  | 38  | 38  |
| <b>Yield point (Pa)</b>       | 13  | 14  |
| <b>Filtration tests</b>       |     |     |
| <b>Pm filtrate ()</b>         |     |     |
| <b>Filtrate Lthp ()</b>       |     |     |
| <b>Filtrate Hthp ()</b>       |     |     |
| <b>Cake thickn API ()</b>     |     |     |
| <b>Cake thickn HPHT ()</b>    |     |     |
| <b>Test Temp HPHT (degC)</b>  | 120 | 120 |
| <b>Comment</b>                |     |     |