

Summary report

Wellbore: 15/9-F-14

Period: 2008-05-21 00:00 - 2008-05-22 00:00

| | |
|--------------------------|-------------------|
| Status: | normal |
| Report creation time: | 2018-05-03 13:52 |
| Report number: | 36 |
| Days Ahead/Behind (+/-): | |
| Operator: | StatoilHydro |
| Rig Name: | MÆRSK INSPIRER |
| Drilling contractor: | Mærsk Contractors |
| Spud Date: | 2007-11-04 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: | 2008-06-15 |

| | |
|-----------------------------|---------------|
| Dist Drilled (m): | 3 |
| Penetration rate (m/h): | -999.99 |
| Hole Dia (in): | 17.5 |
| Pressure Test Type: | leak off test |
| Formation strength (g/cm3): | 1.74 |
| Dia Last Casing (): | |

| | |
|-----------------------------------|--------|
| Depth at Kick Off mMD: | |
| Depth at Kick Off mTVD: | |
| Depth mMD: | 2284 |
| Depth mTVD: | 2281 |
| Plug Back Depth mMD: | |
| Depth at formation strength mMD: | 2284 |
| Depth At Formation Strength mTVD: | 2281 |
| Depth At Last Casing mMD: | 2275.4 |
| Depth At Last Casing mTVD: | 2274.1 |

Summary of activities (24 Hours)

RIH with 12 1/4" BHA from 526 m and tagged cement at 2248 m MD. Drilled cement plug and shoetrack. Cleaned out rathole and drilled 3 m new formation down to 2284 m MD. Performed XLOT. Displaced from WBM to OBM.

Summary of planned activities (24 Hours)

Drill 12 1/4" section from 2284 m to 2700 m MD.

Operations

| Start time | End time | End Depth mMD | Main - Sub Activity | State | Remark |
|------------|----------|---------------|--|-------|--|
| 00:00 | 00:45 | 26 | drilling -- trip | ok | Reinstalled lift sub on C-link assy to check threads - ok. Made up schlumberger C-link assy - ok. |
| 00:45 | 03:15 | 61 | drilling -- trip | ok | Picked up and made up ARC, Powerpulse, Sonicvision, NMDC and NMDC pony. |
| | | | | | Meanwhile lined up for testing CRI hose and perform injection test. Observed that CRI hose had detached from subsea wellhead. Valve on hose and check valve was dug in the mud/seabed. Attempted to grab valve assembly but could not apply enough force with ROV. |
| 03:15 | 04:15 | 159 | drilling -- trip | ok | Made up stand og 8 1/4" DC and jar. Made up stand of DC. Made up x-over. Picked up and made up 4 x 5 1/2" HWDP singles (1 stand). |
| | | | | | Meanwhile deployed moonpool tugger to assist ROV in recovering CRI valve assembly from mud/seabed. |
| 04:15 | 04:45 | 159 | drilling -- drill | ok | Held toolbox talk. Removed masterbushing and installed automatic slips in rotary |
| 04:45 | 05:30 | 526 | drilling -- drill | ok | RIH with 12 1/4" drilling BHA on 5 1/2" DP from 159 m to 526 m MD. |
| | | | | | Meanwhile worked to recover CRI valve assembly with ROV and tugger assist. Closed valve on subsea wellhead. |
| 05:30 | 06:00 | 526 | drilling -- drill | ok | Made up TDS. Circulated according to Schlumberger instructions and performed shallow test of MWD. |
| 06:00 | 09:45 | 2139 | drilling -- drill | ok | RIH with 12 1/4" drilling BHA on 5 1/2" DP from 526 m to 2139 m MD. Broke circulation every 500 m. |
| 09:45 | 10:30 | 2139 | interruption -- other | ok | Checked alignment of TDS. |
| 10:30 | 11:15 | 2139 | drilling -- drill | ok | Held handover meeting and toolbox meeting prior to choke drill. Performed choke drill. |
| 11:15 | 12:00 | 2206 | drilling -- drill | ok | Continued to RIH with 12 1/4" BHA on 5 1/2" DP from 2139 m to 2206. |
| 12:00 | 12:15 | 2206 | drilling -- drill | ok | Laid out single from stand #51 to space out for drilling shoetrack and rathole without connection. |
| 12:15 | 13:15 | 2248 | drilling -- drill | ok | Made up TDS and broke circulation. Whashed down from 2206 m at 2650 lpm / SPP 123 bar and tagged cement plug at 2247.8 m MD. |
| 13:15 | 17:30 | 2248 | drilling -- casing | ok | Drilled on cement plugs at 2248 m MD. Drilling parameters : Flow 2700 lpm / SPP ~120 bar / String RPM 105 / WOB 3-6 MT / Torque ~5 kNm / ECD 1,31-1,32. Picked off bottom every 10-15 min to clean bit. |
| 17:30 | 19:00 | 2275 | drilling -- casing | ok | Broke through plugs/float collar. Drilled firm cement from 2248 m to shoe at 2275 m MD. Drilling parameters : Flow 2700 lpm / SPP ~120 bar / String RPM 105 / WOB 1-3 MT / Torque 5-9 kNm / ECD 1,32. |
| 19:00 | 20:00 | 2281 | drilling -- casing | ok | Cleaned rathole below 14" casing down to 2281 m MD. Remained through shoe for every 2 m drilled. Drilling parameters : Flow 2500-3000 lpm / SPP 113-140 bar / String RPM 105-115 / WOB 1-2 MT / Torque ~7 kNm / ECD 1,32. |
| 20:00 | 20:30 | 2284 | drilling -- drill | ok | Drilled 12 1/4" hole section from 2281 m to 2284 m MD. Drilling parameters : Flow 2500-3000 lpm / SPP 114-145 bar / String RPM 105-115 / WOB 3-4 MT / Torque 7-9 kNm / ECD 1,32. |
| 20:30 | 22:15 | 2268 | formation evaluation -- circulating conditioning | ok | Circulated at 3000 lpm to clean hole and get even mudweight. Observed clean shakers and even MW in/out of 1,30 sg. Meanwhile made preparations for XLOT. Transferred mud to cementer and flushed kill line to drillfloor. Set choke on cement unit bleed back. Pulled bit inside casing. |
| 22:15 | 22:30 | 2268 | formation evaluation -- rft/fit | ok | Closed UPR. Verified line up to standpipe 1 and kill line to BOP. |
| 22:30 | 23:30 | 2268 | formation evaluation -- rft/fit | ok | Performed XLOT cycle #1. Pressured up on well to ~100 bar at 92 lpm. Observed fall off trend for 15 min. Pumped 1776 l and bled back 775 l. |
| 23:30 | 00:00 | 2268 | formation evaluation -- rft/fit | ok | Performed XLOT cycle #2. Pressured up on well to ~98 bar at 92 lpm. Observed fall off trend for 15 min. |

Equipment Failure Information

| Start time | Depth mMD | Depth mTVD | Sub Equip - Syst Class | Operation Downtime (min) | Equipment Repaired | Remark |
|------------|-----------|------------|---------------------------|--------------------------|--------------------|------------------------------------|
| 00:00 | 140 | | hoisting equ -- top drive | 0 | 00:00 | Changed alignment cylinder on TDS. |

Drilling Fluid

| | | | |
|-----------------------|------------|----------|------------|
| Sample Time | 14:00 | 17:00 | 22:00 |
| Sample Point | Active pit | Flowline | Active pit |
| Sample Depth mMD | -999.99 | 2249 | 2284 |
| Fluid Type | HPWBM | HPWBM | HPWBM |
| Fluid Density (g/cm3) | 1.3 | 1.3 | 1.3 |
| 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) | 33 | 33 | 32 |
| Yield point (Pa) | 14.5 | 15.5 | 13.5 |
| Filtration tests | | | |
| Pm filtrate () | | | |
| Filtrate Lthp () | | | |
| Filtrate Hthp () | | | |
| Cake thickn API () | | | |
| Cake thickn HPHT () | | | |
| Test Temp HPHT () | | | |
| Comment | | | |

Pore Pressure

| Time | Depth mMD | Depth TVD | Equ Mud Weight (g/cm3) | Reading |
|-------|-----------|-----------|------------------------|-----------|
| 00:00 | 2281 | | 1.03 | estimated |