

Summary report

Wellbore: 15/9-F-14

Period: 2008-06-06 00:00 - 2008-06-07 00:00

| | |
|--------------------------|-------------------|
| Status: | normal |
| Report creation time: | 2018-05-03 13:52 |
| Report number: | 52 |
| Days Ahead/Behind (+/-): | 3.9 |
| 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): | -999.99 |
| Penetration rate (m/h): | -999.99 |
| Hole Dia (): | |
| Pressure Test Type: | leak off test |
| Formation strength (g/cm3): | 1.67 |
| Dia Last Casing (): | |

| | |
|-----------------------------------|--------|
| Depth at Kick Off mMD: | |
| Depth at Kick Off mTVD: | |
| Depth mMd: | 2788 |
| Depth mTVD: | 2728.4 |
| Plug Back Depth mMD: | |
| Depth at formation strength mMD: | 2284 |
| Depth At Formation Strength mTVD: | 2281 |
| Depth At Last Casing mMD: | 2783.5 |
| Depth At Last Casing mTVD: | 2728.3 |

Summary of activities (24 Hours)

Picked up spear assy and installed 10 3/4" casing. RIH and landed off in the subsea well head and made up same with 10,800 Nm make up. Released Spear and POOH. P/U and M/U Adjustment Sub Setting Tool. RIH and locked the Adjustment Sub. Attempted to come out with the Adjustment Sub Setting Tool.

Summary of planned activities (24 Hours)

Retrieve the Adjustment Sub Setting Tool. RIH with HRT on 5 1/2" HWDP. M/U HRT to the 10 3/4" surface hanger by 9-10 left hand turns and pressure test against RTTS plug. Install MS seal. Leak test. Run bowl protector in surface wellhead. MU and RIH RTTS pulling tool on DP.

Operations

| Start time | End time | End Depth mMD | Main - Sub Activity | State | Remark |
|------------|----------|---------------|---------------------|-------|--|
| 00:00 | 01:45 | 0 | drilling -- casing | ok | Continued rigging up casing handling equipment and casing tong. |
| 01:45 | 02:00 | 0 | drilling -- casing | ok | Held tool box talk prior to RIH with 10 3/4" casing. |
| 02:00 | 05:30 | 108 | drilling -- casing | ok | Picked up and RIH 10 3/4" Tie-back adapter on 10 3/4" casing from surface to 108m. |
| 05:30 | 05:45 | 119 | drilling -- casing | ok | Picked up pre-packed 10 3/4" surface casing hanger assembly with Adjustment Sub and casing hanger Handling tool. Made up assembly with low stick-up. |
| 05:45 | 06:00 | 119 | drilling -- casing | ok | Held tool box talk and released Casing Hanger RT with 10 right hand turns. |
| 06:00 | 06:30 | 119 | drilling -- casing | ok | Laid out 10 3/4" surface casing hanger handling sub. Changed surface handling equipment to DP. |
| 06:30 | 07:00 | 119 | drilling -- casing | ok | Made up premade spear stand from derrick and stabbed into 10 3/4" casing. |
| 07:00 | 08:00 | 140 | drilling -- casing | ok | Held tool box talk and ran in with 10 3/4" surface casing hanger from 119m to 140m. Tagged subsea tie back well head. Meanwhile drained riser. |
| 08:00 | 08:45 | 140 | drilling -- casing | ok | Rotated with 3 rpm with torque limit set at 2500 Nm. Observed stall out and Spear released. Engaged Spear again with 12 MT overpull and 2 rpm. Increased torque incrementally in 500 Nm stages. Achieved max torque of 8500 Nm prior to Spear released. Re-engaged with 13 MT overpull and 4 rpm and applied torque. Observed 10,800 Nm make up before spear released. |
| 08:45 | 09:00 | 140 | drilling -- casing | ok | Took 30 MT overpull, observed 0.5 inch stretch. |
| 09:00 | 09:45 | 0 | drilling -- casing | ok | Released Spear and POOH to surface. Broke off TDS and racked stand back. |
| 09:45 | 10:15 | 0 | drilling -- casing | ok | Held tool box talk and rigged down Odfjell casing tong. |
| 10:15 | 10:45 | 0 | drilling -- casing | ok | Broke off and laid out Spear. |
| 10:45 | 12:00 | 0 | drilling -- casing | ok | Held tool box talk and RIH with one stand of 5 1/2" DP. P/U the 5 1/2" pre-made stand with Adjustment Sub Setting Tool, and made up same. |
| 12:00 | 12:45 | 28 | drilling -- casing | ok | RIH with Adjustment Sub Setting Tool to 28.6 m. and engaged Adjustment Sub. Applied 140 bar pressure inside tool. Found that tool was engaged in casing coupling just below latch profile, max OP 2 tons. Bleed off pressure and lowered tool down approx. 2 cm. Rotated to the right while PU slowly to engage torque slots in adjustment sub. Rotated and landed surface hanger with 11 MT. Took 30 MT overpull. Attempted to release the Adjustment Sub Setting Tool. |
| 12:45 | 14:00 | 28 | drilling -- casing | ok | Attempted to come up with string and took overpull. Worked string down and rotated 1 1/2 turns. Attempted to pull up and took overpull. Went back down and applied 140 bars to the string, bleed off the pressure and went down, had 10 MT drag going down. Attempted to pull out took overpull immediately. Tool stuck in casing connection just below setting tool latch profile. |
| 14:00 | 15:45 | 28 | drilling -- casing | ok | Time out involved tool organisation. |
| 15:45 | 16:30 | 28 | drilling -- casing | ok | Set down 20 MT and observed tool came free. Picked up and observed overpull, got tool up into latch profile. Pressure up to 140 bars and took 5 MT overpull. Slacked off weight and bled off pressure simultaneously. |
| 16:30 | 19:00 | 28 | drilling -- casing | ok | Worked string up and down attempted to free tool. Took 35 MT overpull and worked string up and down. Rotated the string at 10 rpm continuing working string up and down max overpull of 1 MT. Got tool into casing connection again, unable to pull above, but able to move downwards. |
| 19:00 | 23:00 | 28 | drilling -- casing | ok | Took out bushing and picked up 10 MT overpull, worked string sideways using tuggers two directions. Able to work string 2 inch's up. Continued working string. Meanwhile discussed options with onshore, decided to go for a straight pull. Performed risk analyses prior to carrying out straight pull to free stuck Adjustment Sub Setting Tool. Drill Quip services hand out of hours. |
| 23:00 | 00:00 | 28 | drilling -- casing | ok | Performed derrick inspection prior to perform straight pull with TDS, to free stuck Adjustment Sub Setting Tool. Serviced TDS. |

Drilling Fluid

| | |
|-----------------------|--------------|
| Sample Time | 04:00 |
| Sample Point | Active pit |
| Sample Depth mMD | 2788 |
| Fluid Type | OBM-Standard |
| Fluid Density (g/cm3) | 1.31 |
| Funnel Visc (s) | -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) | 22 |
| Yield point (Pa) | 8.5 |
| Filtration tests | |
| Pm filtrate () | |
| Filtrate Lt _{hp} () | |
| Filtrate H _{thp} () | |
| Cake thickn API () | |
| Cake thickn HPHT () | |
| Test Temp HPHT (degC) | 121 |
| Comment | |

Pore Pressure

| Time | Depth mMD | Depth TVD | Equ Mud Weight (g/cm3) | Reading |
|-------|-----------|-----------|------------------------|-----------|
| 00:00 | 2788 | | 1.03 | estimated |