

Summary report

Wellbore: 15/9-F-14

Period: 2008-05-11 00:00 - 2008-05-12 00:00

| | |
|--------------------------|-------------------|
| Status: | normal |
| Report creation time: | 2018-05-03 13:52 |
| Report number: | 26 |
| 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 (I): | |
| Pressure (I): | |
| Date Well Complete: | 2008-06-15 |

| | |
|-----------------------------|--------------------------|
| Dist Drilled (m): | 115 |
| Penetration rate (m/h): | -999.99 |
| Hole Dia (in): | 17.5 |
| Pressure Test Type: | formation integrity test |
| Formation strength (g/cm3): | 1.38 |
| Dia Last Casing (I): | |

| | |
|-----------------------------------|--------|
| Depth at Kick Off mMD: | |
| Depth at Kick Off mTVD: | |
| Depth mMd: | 1198 |
| Depth mTVD: | 1197.5 |
| Plug Back Depth mMD: | |
| Depth at formation strength mMD: | 1186 |
| Depth At Formation Strength mTVD: | 1186 |
| Depth At Last Casing mMD: | 1076.9 |
| Depth At Last Casing mTVD: | 1076.5 |

Summary of activities (24 Hours)

Cleaned rathole and drilled 3 m new formation down to 1086 m MD. Pumped hi-vis sweep, displaced to 1,20 sg WBM and spotted LCM pill in rathole. Conditioned mud and performed FIT to 1,38 EMW. Drilled 17 1/2" section down to 1302 m MD. Had problems with overflow on shakers and screen plugging.

Summary of planned activities (24 Hours)

Drill 17 1/2" hole section from 1302 m to 1900 m MD.

Operations

| Start time | End time | End Depth mMD | Main - Sub Activity | State | Remark |
|------------|----------|---------------|--|-------|---|
| 00:00 | 00:30 | 1040 | drilling -- drill | ok | Took SCR's. Performed choke drill. |
| 00:30 | 02:00 | 1050 | drilling -- casing | ok | Continued drilling cement and float collar at 1050 m MD. Virtually no penetration observed indicating drilling on float collar. Drilling parameters : Flow 3100 lpm / SPP 74 bar / Rotation 60-70 RPM / WOB 7-10 MT / Torque 5-10 kNm. |
| 02:00 | 05:15 | 1077 | drilling -- casing | ok | Drilled firm cement in shoetrack from 1050 m 1077 m MD. Drilling parameters : Flow 3100 lpm / SPP 76 bar / Rotation 60-70 RPM / WOB 5 MT / Torque 8-12 kNm. |
| 05:15 | 06:00 | 1078 | drilling -- casing | ok | Broke through 20" casing shoe at 1077 m MD. Observed increased return on flowmeter. Picked off bottom and flowchecked - static. Continued drilling to 1078 m MD. Flow 3 100 lpm / SPP 77 bar / Rotation 60-70 RPM / WOB 3-5 MT / Torque 4-11 kNm. Meanwhile broke out and laid down adjustable sub setting tool using fwd PRS and fwd IR. |
| 06:00 | 06:45 | 1086 | drilling -- drill | ok | Cleaned rathole below 20" casing down to 1083 m MD. Drilled new formation from 1083 m to 1086 m MD. Drilling parameters : Flow 3100 lpm / SPP 78 bar / Rotation 70 rpm / WOB 2-4 MT / Torque 4-9 kNm. |
| 06:45 | 07:15 | 1086 | drilling -- drill | ok | Pumped 40 m3 hi-vis sweep at 3200 lpm to clean well. Meanwhile held toolbox talk prior to displacing to WBM. |
| 07:15 | 09:30 | 1077 | drilling -- circulating conditioning | ok | Displaced well from seawater to 1,20 sg Performadrill WBM with 3500 lpm. Flushed choke and kill lines on BOP and lined up sandtraps. |
| 09:30 | 10:15 | 1077 | formation evaluation -- circulating conditioning | ok | Obtained even MW in/out 1,21 sg. |
| 10:15 | 11:00 | 1077 | formation evaluation -- circulating conditioning | ok | Ran in to TD at 1086 m MD. Observed thight spot at 1081-1085 m MD. Spotted 10 m3 LCM pill in rathole. Pulled back into shoe at 1077 m MD. |
| 11:00 | 12:15 | 1077 | formation evaluation -- rft/fit | ok | Lined up cement unit. Pressure tested lines prior to performing FIT. Closed BOP. Performed FIT to 1,38 EMW by pressuring up to 21,5 bar on well. |
| 12:15 | 14:00 | 1077 | formation evaluation -- rft/fit | ok | Opened BOP and lined up for drilling. Took SCR's. Laid out 5 1/2" singel used for spacing out in shoetrack. RIH to 1077 MD. Obtained MWD pressure point from FIT, EMW 1, 408 sg. |
| 14:00 | 16:30 | 1086 | drilling -- drill | ok | Established drilling parameters : Flow 3000 lpm / SPP 116 bar. Not able to handle flow over shakers. Worked with shaker configuration. Installed coarser top and bottom screens (30/80 mesh). |
| 16:30 | 17:30 | 1110 | drilling -- drill | ok | Drilled 17 1/2" hole section from 1086 m to 1110 m MD. Drilling parameters : Flow 4000 lpm / SPP 112 bar / Rotation 80 rpm / WOB ~5 MT / Torque 7-8 kNm / ROP 25 m/hrs. |
| 17:30 | 18:00 | 1110 | drilling -- drill | ok | Lost mud on shakers due to plugged header box and uneven mud distribution. Picked off bottom and reduced flow rate to 1700 lpm to remedy situation. Cleaned shaker box. |
| 18:00 | 21:30 | 1130 | drilling -- drill | ok | Continued drilling 17 1/2" hole section from 1110 m to 1130 m MD with reduced ROP 10-15 m/hr due to problems to handle fluid returns at shakers. Drilling parameters : Flow 3500-4000 lpm / SPP 103-150 bar / Rotation 120 rpm / WOB 4-7 MT / Torque 3-7 kNm / ECD 1,22. Reamed half stand on connection. Meanwhile repaired shaker #3. |
| 21:30 | 00:00 | 1198 | drilling -- drill | ok | Drilled 17 1/2" hole section from 1130 m to 1198 m MD. Drilling parameters : Flow 3500-4000 lpm / SPP 103-150 bar / Rotation 120 rpm / WOB 4-7 MT / Torque 3-7 kNm / ECD 1,22 / ROP 25-35 m/hrs. Reamed half stand on connection. Meanwhile repaired shaker #3. |

Drilling Fluid

| | | | |
|-------------------------|------------|------------|------------|
| Sample Time | 12:00 | 17:00 | 22:00 |
| Sample Point | Active pit | Active pit | Active pit |
| Sample Depth mMD | 1086 | 1101 | 1158 |
| Fluid Type | HPWBM | HPWBM | HPWBM |
| Fluid Density (g/cm3) | 1.21 | 1.2 | 1.21 |
| 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 | 33 |
| Yield point (Pa) | 6 | 14.5 | 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 | 1308 | | 1.03 | estimated |

Survey Station

| Depth mMD | Depth mTVD | Inclination (dega) | Azimuth (dega) | Comment |
|-----------|------------|--------------------|----------------|---------|
| 1065.7 | 1064.3 | .18 | 168.91 | |
| 1096.5 | 1095.1 | .23 | 241.47 | |
| 1177.3 | 1175.9 | .1 | 23.17 | |

Stratigraphic Information

| Depth to Top of Formation mMD | Depth to Top of Formation mTVD | Description |
|-------------------------------|--------------------------------|-------------|
| 1207 | 1206.5 | Skade Fm |

Lithology Information

| Start Depth mMD | End Depth mMD | Start Depth TVD | End Depth TVD | Shows Description | Lithology Description |
|-----------------|---------------|-----------------|---------------|-------------------|--|
| 1090 | 1190 | | | | Claystone with traces of sand |
| 1190 | 1240 | | | | Claystone with traces of limestone and sandstone |
| 1240 | 1260 | | | | Sandstone with traces of claystone |