

## Summary report

Wellbore: 15/9-F-10

Period: 2009-05-11 00:00 - 2009-05-12 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	36
Days Ahead/Behind (+/-):	7.9
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 (in):	12.25
Pressure Test Type:	formation integrity test
Formation strength (g/cm3):	1.4
Dia Last Casing ():	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMD:	3319
Depth mTVD:	2642
Plug Back Depth mMD:	
Depth at formation strength mMD:	2619
Depth At Formation Strength mTVD:	2296
Depth At Last Casing mMD:	2607.5
Depth At Last Casing mTVD:	2287.5

## Summary of activities (24 Hours)

RIH with 12 1/4" BHA from 1992 m to 2598 m. Function tested BOP inside shoe. Continued RIH from 2598 m to 2854 m. Took weight at 2854 m. Washed down from 2854 m. Packed off at 2857 m. Flowchecked well and initial loss 12 m/hr, reduced to 1,1 m3/ hr. Pumped 11m3 LCM pill at 2850 m. POOH to 2676 m. Established circulation at 2676 m, flowrate 3500 lpm with full return. RIH from 2676 m to 2889 m. Took weight at 2889 m. Washed and reamed in hole from 2900 m to 3139 m.

## Summary of planned activities (24 Hours)

Wash and ream down to TD at 3319 m. Continue drill 12 1/4" hole from 3319 m to TD of section.

Target for tomorrow at 06:00 hrs: Drilling 12 1/4" hole at 3410 m.

## Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	00:45	0	drilling -- trip	ok	POOH with 12 1/4" BHA from 100 m to surface. Racked same in derrick.
00:45	01:45	0	drilling -- trip	ok	Gauged and inspected bit and BHA. Upper stabilizer had 1/32" wear. In addition it was ringed out with a 4cm high and 2-3mm deep cut all around the stab approximately 1/3 from the bottom of it. The hard facing was still in place. The lower stab was worn 1/16". Also here the hard facing was in place. Bit grading: 2-2-WT-S-IN-HC, some wear also on bit body. B/O bit an d M/U new 12 1/4" bit.
01:45	03:15	178	drilling -- trip	ok	RIH with 12 1/4" BHA from surface to 178 m.
03:15	03:45	178	drilling -- trip	ok	Removed master bushing and installed PS-21 slips.
03:45	06:00	1992	drilling -- trip	ok	RIH with 12 1/4" BHA on 5 1/2" DP from 178 m to 1992 m. Filled pipe every 600 m.
06:00	07:00	2598	drilling -- trip	ok	RIH with 12 1/4" BHA on 5 1/2" DP from 1992 m to 2598 m. Filled pipe every 600 m.
07:00	07:30	2598	drilling -- pop activities	ok	Function test BOP rams. Flushed kill and choke lines inside shoe at 2598 m. Recorded up and down weight prior to RIH to OH; 170 ton/ 135 ton.
07:30	08:15	2854	drilling -- trip	ok	RIH with 12 1/4" BHA on 5 1/2" DP from 2598 m to 2854 m. Took weight at 2854 m, 20 ton down weight.
08:15	10:00	2850	drilling -- ream	ok	Washed/ reamed down from 2854 m to 2882 with 1000 lpm/ 25 bar - 50 RPM/ 14-23 kNm. Worked tight spots. Increased pumprate to 2900 lpm/ 166 bar. Backreamed stand to 2857 m and observed a pressure peak to 195 bar and packed off the hole. Resiprocated string and attempted to stage up flowrate slowly with 10 SPM, no return seen. Dry reamed out from 2857 m to 2850 m. Lost 2,5 m3 to formation.
10:00	11:15	2850	drilling -- trip	ok	Monitored well on triptank. Initial loss rate 12 m3/ hr and decreased to 1,1 m3/ hr. Total loss 8.2 m3.
11:15	12:30	2850	drilling -- trip	ok	Pumped and displaced 11 m3 LCM pill at 2850 m with 780 lpm/ 20 bar. Lost 6,5 m3 to formation while pumping LCM pill.
12:30	13:00	2850	drilling -- trip	ok	Flowchecked well on triptank. Observed losses 400 l/ hr static losses.
13:00	13:45	2676	drilling -- trip	ok	POOH with 12 1/4" BHA on 5 1/2" DP from 2850 m to 2676 m.
13:45	15:30	2676	drilling -- circulating conditioning	ok	Established circulation at 2676 m. Increased flowrate slowly to 3500 lpm/ 220 bar, observed no loss to formation.
15:30	16:15	2889	drilling -- trip	ok	RIH with 12 1/4" BHA on 5 1/2" DP from 2676 m to 2889 m. Took 20 ton down weight at 2889 m.
16:15	16:30	2900	drilling -- ream	ok	Reamed without pumping from 2889 m to 2900 m with 30 RPM. String torqued up and took weight.
16:30	00:00	2995	drilling -- ream	ok	Washed and reamed in hole from 2900 m to 2995 m. Parameters: 3500 lpm/ 224 bar, 30-60 RPM/ 20-25 kNm. Max torque 40 kNm. Staged pumps up slowly after each connection. Had several areas through claystone stringers with packing off tendency. Max standpipe pressure observed 230 bar. Claystone stringer from 2932 m to 2936 m, 2971 m to 2973 m.

## Equipment Failure Information

Start time	Depth mMD	Depth mTVD	Sub Equip - Syst Class	Operation Downtime (min)	Equipment Repaired	Remark
00:00	192		drill floor -- draw works	0	00:00	Changed encoder on DW motor #2

## Bit Record

Run No.	Bit Size	Bit Type	IADC Code	Manufacturer	Hrs Drilled	Start mMD	End mMD	Hole Made (last 24H)	Hours Drilled (last 24H)	Form ROP	Total ROP	Total Hole Made	Total Hrs Drilled
6	12.25 in	MDI716	M323	Smith International	49.2	2825	2825			10	10	494	49.2

## Drilling Fluid

Sample Time	11:00	17:00	21:00
Sample Point	Active pit	Flowline	Flowline
Sample Depth mMD	3320	3320	3320
Fluid Type	Enviromul Yellow	Enviromul Yellow	Enviromul Yellow
Fluid Density (g/cm3)	1.31	1.3	1.3

<b>Funnel Visc (s)</b>	-999.99	-999.99	-999.99
<b>Mf ()</b>			
<b>Pm ()</b>			
<b>Pm filtrate ()</b>			
<b>Chloride ()</b>			
<b>Calcium ()</b>			
<b>Magnesium ()</b>			
<b>Ph</b>			
<b>Excess Lime ()</b>			
<b>Solids</b>			
<b>Sand ()</b>			
<b>Water ()</b>			
<b>Oil ()</b>			
<b>Solids ()</b>			
<b>Corrected solids ()</b>			
<b>High gravity solids ()</b>			
<b>Low gravity solids ()</b>			
<b>Viscometer tests</b>			
<b>Plastic visc. (mPa.s)</b>	23	23	20
<b>Yield point (Pa)</b>	9.5	10	10
<b>Filtration tests</b>			
<b>Pn 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	120
<b>Comment</b>			

#### Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	3319		1.03	estimated