

Summary report

Wellbore: 15/9-F-10

Period: 2009-05-15 00:00 - 2009-05-16 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	40
Days Ahead/Behind (+/-):	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:	3442
Depth mTVD:	2653.7
Plug Back Depth mMD:	
Depth at formation strength mMD:	2619
Depth At Formation Strength mTVD:	2296
Depth At Last Casing mMD:	3441
Depth At Last Casing mTVD:	2654

Summary of activities (24 Hours)

RIH with 9 5/8" liner from 1867 m to 2595 m. Circulated 88 m3 inside shoe at 2595 m. RIH with 9 5/8" liner from 2598 m to 2863 m. Took weight at 2863 m. Washed/ rotated 9 5/8" liner in hole from 2863 m to 2865 m. RIH with 9 5/8" liner from 2865 m to 3442 m, pulled out to 3440 m. Installed cement head. Set liner hanger and released RT. Established circulation/ rotation and circulated BU with 2000 lpm. Pumped 15 m3 baseoil and 20 m3 Spacer. Mixed and pumped 38 m3 1.90 sg cement. Displaced cement with 60.7 m3 OBM, not able to bump plug. Set and tested packer to 200 bar. P/U and released RSM. Circulated BU.

Summary of planned activities (24 Hours)

Circulate until even MW in/out and no backflow from string. POOH and LD 9 5/8" liner RT. Retrieve wear bushing. Test BOP 18 3/4" BOP. Cut& slip drilling line. Changed wash pipe.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:30	923	drilling -- casin g	ok	Performed pull test of hanger assy and running tool. Filled PBR with hi vis pill. Liner weight 55 ton.
01:30	02:30	940	drilling -- casin g	ok	Ran hanger assy through rotary. R/D casing tong and manual elevators.
02:30	02:45	940	drilling -- casin g	ok	M/U x-over and pup to running tool.
02:45	03:15	940	drilling -- casin g	ok	Changed out elevators and installed elevator rotator.
03:15	03:45	940	drilling -- casin g	ok	Made up DP stand to pup. Installed auto slips.
03:45	06:00	1867	drilling -- casin g	ok	RIH with 9 5/8" liner on 5 1/2" DP from 940 m to 1867 m. Filled every 5 stands. Running speed 412 m/ hr. Total losses while RIH with 9 5/8" liner from surface to 1867 m; 7,6 m3 . Losstrend is decreasing.
06:00	08:00	2595	drilling -- casin g	ok	RIH with 9 5/8" liner on 5 1/2" DP from 1867 m to 2595 m. Filled every 5 stands. Running speed 364 m/ hr. Took up and down weight inside shoe at 2595 m, 185 ton/ 138 ton.
08:00	08:45	2595	drilling -- casin g	ok	At 2595 m broke circulation and increased flowrate stepwise to 2000 lpm/ 46 bar. Meanwhile serviced Iron roughneck.
08:45	09:15	2595	interruption -- other	ok	Repaired hydraulic leak on aft iron roughneck. Meanwhile continued circulated with 1500 lpm/ 31 bar. Total pumped in shoe: 88 m3.
09:15	10:15	2863	drilling -- casin g	ok	RIH with 9 5/8" liner on 5 1/2" DP from 2595 m to 2863 m. Took weight at 2863 m, max down weight 40 ton.
10:15	13:15	2865	drilling -- casin g	ok	Attempted to wash through tight spot at 2863 m, no go.Parameters: 500 - 750 lpm/ 20 bar. Washed/ rotated liner down from 2863 m to 2865 m. Parameters: 1000 lpm/ 21 bar - 15 RPM/ 15-30 kNm.
13:15	15:00	3401	drilling -- casin g	ok	RIH with 9 5/8" liner on 5 1/2" DP from 2865 m to 3401 m.
15:00	15:30	3440	drilling -- casin g	ok	Washed down last stand from 3401 m to 3440 m with 400 lpm/ 17 bar. Recorded up and down weight at setting depth: 195 ton/ 134 ton.
15:30	15:45	3440	drilling -- casin g	ok	P/U and M/U cement head.
15:45	16:00	3440	drilling -- casin g	ok	Washed in hole to TD at 3442 m with 400 lpm. Set down 10 ton. Pulled out to up weight and additional 2 m to 3439 m. Estimated loss of 14 m3, while RIH with 9 5/8" liner from surface to TD.
16:00	18:00	3439	drilling -- casin g	ok	Circulated at setting depth of the liner at 3439 m. Increased flowrate stepwise to 1200 lpm/ 35 bar, and loss free rate. Total pumped 100 m3, one OH volume.
18:00	19:00	3439	drilling -- casin g	ok	Dropped ball from the cement head and chased the ball down with 500 lpm/ 14 bar. Ball landed in ball seat with 166 bar and after pumped 13,5 m3. Verified hanger set by slackng off to 30 ton down weight. Bleed off pressure. Pulled up and left 10 ton weight on RT.
19:00	19:30	3439	drilling -- casin g	ok	Released running tool with 11 turns clockwise. P/U to free weight and 1 additional meter to check that running tool was free and activated MX ball seat. Slacked off 20 ton to shear out ball seat.
19:30	20:45	3439	drilling -- casin g	ok	Staged up pumps to 2000 lpm/ 63 bar without losses.
20:45	22:45	3439	drilling -- casin g	ok	Reduced flowrate to 500 lpm, 16 bar. Established rotation 20 RPM/ 19-23 kNm. Increased flowrate to 2000 lpm/ 65 bar. Circulated BU with loss free circulation. Meanwhile held TBT with focus on cement job.
22:45	23:00	3439	drilling -- casin g	ok	Pumped 15 m3 0.83 sg base oil with rig pump.
23:00	23:45	3439	drilling -- casin g	ok	Pumped 20 m3 1.3 sg Spacer with rig pump. Chased spacer with 3 m3 OBM, which meant 1.5 m3 spacer behind cement.
23:45	00:00	3439	drilling -- casin g	ok	Dropped lower SSR dart for bottom wiper plug. Confirmed same with flag.

Drilling Fluid

Sample Time	16:00	22:30
Sample Point	Active pit	Active pit
Sample Depth mMD	3442	3442
Fluid Type	Enviromul Yellow	Enviromul Yellow
Fluid Density (g/cm3)	1.3	1.3
Funnel Visc (s)	-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)	25	24
Yield point (Pa)	10.5	11
Filtration tests		
Pm filtrate ()		
Filtrate Lt _{hp} ()		
Filtrate H _{thp} ()		
Cake thickn API ()		
Cake thickn HPHT ()		
Test Temp HPHT (degC)	120	120
Comment		

Casing Liner Tubing

Start Time	01:45
End Time	12:45
Type of Pipe	Liner
Casing Type	Production
Outside diameter (in)	9.625
Inside diameter (in)	8.535
Weight (lbm/ft)	53.5
Grade	C-95
Connection	Varn TOP
Length (m)	934
Top mMD	2507
Bottom mMD	3441
Description	12 1/4" Drilling BHA
Comment	