

Summary report

Wellbore: 15/9-F-10

Period: 2009-05-16 00:00 - 2009-05-17 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	41
Days Ahead/Behind (+/-):	9.6
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)

Circulated and conditioned mud after cement job, due to backflow in string. L/D cement head. POOH with liner hanger RT from 2508 m to surface. Pressure tested 18 3/4" BOP to 30/ 345 bar - 5/ 10 min. Unable to test liner to 300 bar. WOC, meanwhile changed washpipe and saversub.

Summary of planned activities (24 Hours)

WOC. Meanwhile WOC, continue change saversub. Drift rest of DP stand in derrick. Prepare and M/U 8 1/2" BHA. Pressure test 9 5/8" liner to 300 bar. M/U and RIH with 8 1/2" BHA. P/U 24 joints 5" DP while RIH. RIH with 8 1/2" BHA on 5" and 5 1/2" DP. Drill out shoe track and shoe at 3439 m. Clean rathole and drill 3 m new formation to 3445 m. Perform FIT to 1,55 sg.

Target for tomorrow at 06:00 hrs: Performing FIT (Dependent on good test on liner)

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:00	3439	drilling -- casing	ok	Mixed and pumped 38 m3 1.90 sg cement slurry with 800 lpm/ 49-36 bar, 20 RPM/ 17-30 kNm. Displaced cement to rig floor with 890 liter fresh water. Dropped upper SSR dart for top wiper plug. Confirmed same with flag.
01:00	02:00	3439	drilling -- casing	ok	Displaced cement with OBM. Pumped with 2000 lpm - 20 rpm/ 28-42 kNm. Observed top dart at wiper plug at 1290 strokes, calculated stroke with 96 % efficiency were 1227 stroke. Top dart sheared out at 216 bar. No bump observed after 2770 strokes. Pumped totally 60.7 m3. Total losses during cement job 8.5 m3. Unable to rotate string after 2000 strokes displaced volume. Bleed off and checked for back flow, none observed.
02:00	02:45	3439	drilling -- casing	ok	Set TSP packer according to Weatherford procedure. Closed annular, and pressure up annulus to 200 bar for 5 min and tested TSP packer.
02:45	03:15	2508	drilling -- casing	ok	Pressured up to 25 bar. Released RSM by pulling out 16 m with running tool.
03:15	04:30	2508	drilling -- casing	ok	Circulated out excess cement with 3000 lpm/ 90 bar. Observed spacer but no cement in return.
04:30	05:15	2508	drilling -- casing	ok	B/O cement head. Observed backflow from string. Reinstalled cement head on string.
05:15	06:00	2508	drilling -- casing	ok	Continued circulating to prevent backflow 3000 lpm/ 91 bar.
06:00	07:30	2508	drilling -- casing	ok	Circulated and conditioned mud with RT inside PBR at 2508 m. 3000 lpm/ 90 bar. Observed for backflow, none.
07:30	07:45	2508	drilling -- casing	ok	B/O cement head and single and loaded sponge balls.
07:45	08:15	2508	drilling -- casing	ok	Pumped down sponge balls to clean DP with 3000 lpm/ 90 bar.
08:15	08:30	2508	drilling -- casing	ok	Flow checked well, static.
08:30	08:45	2508	drilling -- casing	ok	Pumped 5 m3 1.60 sg slug, chased with OBM.
08:45	10:15	2461	drilling -- casing	ok	L/D cement head with one single on catwalk, disconnected hoses on same. POOH and racked back one stand with 5 1/2" DP. P/U cement head and 1single from catwalk. RIH with single DP, B/O and L/D cement head.
10:15	12:15	38	drilling -- casing	ok	POOH with liner hanger RT on 5 1/2" DP from 2461 m to 38 m. (1212 m/ hr.)
12:15	12:30	38	drilling -- casing	ok	Removed PS-21 slips and installed master bushing.
12:30	13:30	0	drilling -- casing	ok	POOH with liner hanger RT from 38 m to surface. L/D liner hanger RT.
13:30	13:45	0	drilling -- casing	ok	Cleaned and cleared rig floor.
13:45	14:00	0	drilling -- bop/ wellhead equipment	ok	Held TBT prior to RIH with jet sub and test plug.
14:00	15:45	180	drilling -- bop/ wellhead equipment	ok	RIH with jetsub and 1 std 5 1/2" DP. MU testplug on top of stand and RIH to 139 m. Jetted wearbushing and landed off test plug at 139 m, jetsub depth 180 m.
15:45	17:45	180	drilling -- bop activities	ok	Attempted to pressure test 18 3/4" BOP, no go. Had leakage at cement unit. Greased up valves at cement unit.
17:45	23:30	180	drilling -- bop activities	ok	Pressure tested 18 3/4 BOP to 30 bar/ 5 min - 345 bar/ 10 min. Meanwhile drifted DP in derrick.
23:30	00:00	100	drilling -- bop/ wellhead equipment	ok	POOH with jetsub/ testplug from 180 m to 100 m.

Equipment Failure Information

Start time	Depth mMD	Depth mTVD	Sub Equip - Syst Class	Operation Downtime (min)	Equipment Repaired	Remark
00:00	2595		miscellaneous equ syst - other	0	00:00	Repair hydraulic leak at iron roughneck
00:00	180		service equ - cementing unit	0	00:00	Leak at cement unit, while pressure test BOP. Repaired leakage. 2 hours operational downtime.

Drilling Fluid

Sample Time	10:00	21:00
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)	24	24
Yield point (Pa)	10	10
Filtration tests		
Pm filtrate ()		
Filtrate Lt_{hp} ()		
Filtrate H_{thp} ()		
Cake thickn API ()		
Cake thickn HPHT ()		
Test Temp HPHT (degC)		120
Comment		