Summary report

Wellbore: 15/9-F-10 **Period: 2009-05-06 00:00 - 2009-05-07 00:00**

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	31
Days Ahead/Behind (+/-):	8
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):	154
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:	2770
Depth mTVD:	2402
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)

Drilled casing shoe and 3 m new formation. Cleaned out rat hole, circulated / conditioned mud and perform FIT to 1.40 sg EMW. Drilled 12 1/4" hole from 2616 - 2825 m. Circulated hole clean and started to POOH with BHA due to downhole tool failure.

Summary of planned activities (24 Hours)

POOH with BHA, replace Xceed and RIH with new BHA.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	02:00	2562	drilling -- drill	ok	RIH with BHA on 5 1/2" DP from 1550 - 2562 m; filled pipe every 300 m.
02:00	02:30	2562	drilling -- drill	ok	Broke circulation and gradually increased pump rate to 2300 lpm / 149 bar. Took up / down / free rotating torq = 167 / 133 / 148 tons, free rotating torq 13 - 16 kNm at 20 rpm. Meanwhile held pre-job safety meeting with involved personnel prior to mud displacement operations.
02:30	02:45	2577	drilling -- drill	ok	Washed down with BHA from 2562 m, tagged float at 2577 m.
02:45	04:30	2578	drilling -- drill	ok	Drilled cement wiper plugs and casing float from 2577 - 2578 m; 2780 lpm, 204 - 158 bar, 40 - 70 rpm, 14 - 17 kNm, 1 - 3 tons WOB. No indications of hard cement. Meanwhile displaced well to 1.30 sg OBM.
04:30	06:00	2599	drilling -- drill	ok	Drilled 13 3/8" casing shoe track from 2578 - 2599 m; 2780 lpm, 154 - 158 bar, 70 rpm, 14 - 16 kNm, 0 - 3 tons WOB. No indications of hard cement.
06:00	06:30	2599	drilling -- drill	ok	Displaced kill / choke lines to 1.30 sg OBM.
06:30	10:30	2607	drilling -- drill	ok	Drilled 13 3/8" casing shoe / shoe track from 2599 - 2607 m (2780 lpm, 153 - 156 bar, 50 - 70 rpm, 13 - 19 kNm, 1 - 7 tons WOB); hard drilling from 2604 m.
10:30	12:00	2616	drilling -- drill	ok	Reamed / cleaned out rat hole from 2607 - 2616 m; 2780 lpm, 147 - 150 bar, 100 rpm, 13 - 16 kNm, 0 - 0.5 tons WOB.
12:00	12:15	2619	drilling -- drill	ok	Drilled 12 1/4" hole from 2616 - 2619 m; 2780 lpm, 148 bar, 100 rpm, 16 - 18 kNm, 5 tons WOB.
12:15	13:15	2599	drilling -- circulating conditioning	ok	Circulated and conditioned mud BU while reciprocating pipe (2780 lpm, 149 bar, 0 - 100 rpm, 0 - 16 kNm); MW in/out = 1.30 sg, clean returns over shakers. Pulled BHA above 13 3/8" casing shoe.
13:15	14:45	2599	formation evaluation -- rft/fit	ok	Performed FIT to 1.4 sg EMW, pumping down pipe and annulus simultaneously; max 26 bar, pumped 361 ltr and bled back 330 ltr during test.
14:45	15:30	2618	drilling -- drill	ok	Washed / reamed down to 2618 m, took SCR`s. Monitored up / down / free rotating torq = 170 / 139 / 153 tons, free rotating torq 13 kNm / 20 rpm. Established drilling parameters; monitored ESD from ARC tool = 1.422 sg EMW.
15:30	20:45	2719	drilling -- drill	ok	Drilled 12 1/4" hole from 2619 - 2719 m; 3500 lpm, 216 - 220 bar, WOB 5 - 8 tons, 170 rpm, 17 - 21 kNm, ECD 1.31 - 1.33 sg EMW, ESD 1.30 - 1.32 sg EMW, ROP 30 m/hr.
20:45	21:00	2719	interruption -- wait	ok	Shut down rig power for generator maintenance.
21:00	22:45	2758	drilling -- drill	ok	Drilled 12 1/4" hole from 2719 - 2758 m; 3500 lpm, 217 - 222 bar, WOB 5 - 8 tons, 170 rpm, 18 - 20 kNm, ECD 1.32 - 1.34 sg EMW, ESD 1.31 - 1.32 sg EMW, ROP 26 - 28 m/hr. Mud pumps shut down. Meanwhile PU and racked 9 5/8" stands in derrick.
22:45	23:15	2758	interruption -- maintain	ok	Troubleshot mud pumps; cleared filter for cooling of switchboard, resat electrical breaker switch. Meanwhile PU and racked 9 5/8" stands in derrick.
23:15	00:00	2770	drilling -- drill	ok	Drilled 12 1/4" hole from 2758 - 2770 m; 3500 lpm, 217 - 222 bar, WOB 5 - 8 tons, 170 rpm, 18 - 20 kNm, ECD 1.33 - 1.34 sg EMW, ESD 1.31 - 1.32 sg EMW, ROP 26 - 30 m/hr. Meanwhile PU and racked 9 5/8" stands in derrick.

Drilling Fluid

Sample Time	09:00	15:30	17:30	23:30
Sample Point	Flowline	Flowline	Flowline	Active pit
Sample Depth mMD	2616	2619	2644	2760
Fluid Type	Enviromul Yellow	Enviromul Yellow	Enviromul Yellow	Enviromul Yellow
Fluid Density (g/cm3)	1.3	1.3	1.3	1.3
Funnel Visc (s)	-999.99	-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)	25	26	24	24
Yield point (Pa)	7.5	7	8.5	9.5
Filtration tests				
Pm filtrate ()				
Filtrate Lthp ()				
Filtrate Hthp ()				
Cake thickn API ()				
Cake thickn HPHT ()				
Test Temp HPHT (degC)	120	120	120	120
Comment				

Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	2825		1.01	estimated

Survey Station

Depth mMD	Depth mTVD	Inclination (dega)	Azimuth (dega)	Comment
2625.4	2300.8	44.18	126.28	
2665.7	2329.5	44.88	125.57	
2705.9	2357.9	45.37	126.06	
2746.2	2386.1	45.78	126.69	
2786.6	2414.1	46.68	126.08	

Stratigraphic Information

Depth to Top of Formation mMD	Depth to Top of Formation mTVD	Description
2671.5	2333.5	Sele Fm