

Summary report

Wellbore: 15/9-F-15

Period: 2008-09-19 00:00 - 2008-09-20 00:00

Status:	normal
Report creation time:	2018-05-03 13:52
Report number:	20
Days Ahead/Behind (+/-):	2
Operator:	StatoilHydro
Rig Name:	MÆRSK INSPIRER
Drilling contractor:	Mærsk Contractors
Spud Date:	2008-10-24 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:	2008-12-11

Dist Drilled (m):	3
Penetration rate (m/h):	-999.99
Hole Dia (in):	26
Pressure Test Type:	formation integrity test
Formation strength (g/cm3):	1.5
Dia Last Casing (I):	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMd:	1381
Depth mTVD:	1349
Plug Back Depth mMD:	
Depth at formation strength mMD:	0
Depth At Formation Strength mTVD:	0
Depth At Last Casing mMD:	1368.4
Depth At Last Casing mTVD:	1340.4

Summary of activities (24 Hours)

Drilled float and shoetrack down to 1355 m MD. Spotted LCM pill. Re-attempted testing casing to 75 bar - 1 bar drop/10 min. Troubleshot problems on VICIS system. Drilled shoetrack to 1368 m MD. Cleaned out rathole to 1378 m MD. Drilled new formation to 1381 m MD - circulated hole clean. Spotted LCM pill prior to FIT. Performed FIT.

Summary of planned activities (24 Hours)

n/a

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:00	1300	drilling -- drill	ok	RIH with 17 1/2" BAH on 5 1/2" DP from 1055 m to 1300 m MD.
01:00	01:15	1300	drilling -- drill	ok	Held toolbox talk.
01:15	02:00	1338	drilling -- drill	ok	Made up TDS to DP. Filled DP with seawater. Took up/down weights 132/115 MT. Washed down to 1337 m MD. Pumprate 2000 lpm / 30 rpm / Torque ~8 k Nm. No obstruction encountered.
02:00	02:15	1339	drilling -- drill	ok	Picked up and made up 6 m pup for drilling shoetrack. Continued washing down with same parameters and tagged landing collar at 1339 m MD.
02:15	03:00	1307	drilling -- casing	ok	Pumped 5 m3 LCM + 1m3 sacrificial spacer at ~1500 lpm. Chased LCM pill with 830 strokes seawater pumping at 2000 lpm / SPP 17 bar. Pulled pipe back to 1307 m MD at controlled speed when LCM entered well.
03:00	03:45	1307	drilling -- casing	ok	Lined up cement unit to pump down pipe and kill line on BOP. Performed line test against standpipe isolation valve and HCR on BOP - 100 bar / 10 min - ok. Closed UPR.
03:45	05:00	1307	drilling -- casing	ok	Started pressuring up at well. Pumped a total of 1000 lpm before any pressure build up could be seen, probably caused by drained standpipe. Reset volume counter at 5 bar. Pressured up to 75 bar pumping at 100 lpm. Held pressure for 20 min, observed pressure drop of ~1.6 bar / 10 min and ~1.4 bar / 10 min towards end. Hard to determine if leakage rate was improving. Pressured up to 75 bar again. Held test for another 20 min, observed pressure drop of 1,3 bar / 10 min towards end of test, but hard to see further improvement. Estimated leakage rate approx 1, 5 l/min. Volume pumped and bled back 943/910 liters. Decided to continue operations.
05:00	05:45	1339	drilling -- casing	ok	Performed choke drill.
05:45	06:00	1339	drilling -- casing	ok	Established parameters for drilling float collar / shoe track. Flow 3500 lpm / SPP 71 bar / 60 rpm.
06:00	09:15	1355	drilling -- casing	ok	Drilled float collar/shoetrack from 1339 m to 1355 m MD. Parameters : Flow 3600 lpm / SPP 73 bar / 70 rpm / WOB 8 MT / Torque 6-20 kNm.
09:15	09:30	1355	drilling -- casing	ok	Pumped 5 m3 LCM pill and displaced same with 18 m3 stroke at 2000 lpm
09:30	11:15	1355	drilling -- casing	ok	Lined up cement unit to pump down pipe and BOP kill line. Pressure tested 20" casing to 75 bar. Observed approx 1 % drop last 10 min of test. Attempted to resume drilling shoetrack, got problems with VICIS system / drilling controls.
11:15	17:30	1355	interruption -- other	ok	Circulated on well while working on problem with VICIS.
17:30	17:45	1355	drilling -- casing	ok	Established drilling parameters : Flow 3600 lpm / 70 rpm / 10 kNm / 75 bar SPP.
17:45	19:45	1368	drilling -- casing	ok	Drilled 20" shoetrack from 1355 m to 1368 m MD. Drilling parameters : Flow 3600 lpm / SPP 75 bar / 70 rpm / WOB 5-6 MT / Torque 10-12 kNm. Pumped 10 m3 hi-vis pills according to program.
19:45	20:45	1378	drilling -- casing	ok	Cleaned rathole from 1368 m to 1378 m MD. Drilling parameters : Flow 3600 lpm / SPP 75 bar / 70 rpm / WOB <1 MT / Torque 10-12 kNm. Reamed back in shoe for every 2 m cleaned. Pumped 10 m3 hi-vis pills according to program.
20:45	21:00	1381	drilling -- drill	ok	Drilled 3 m new formation from 1378 m to 1381 m MD. Drilling parameters : Flow 3600 lpm / SPP 75 bar / 70 rpm / WOB 5 MT / Torque 11 kNm.
21:00	22:30	1338	drilling -- circulating conditioning	ok	Pumped 20 m3 hi-vis to clean hole. Circulated 1,5 times bottoms up at 3600 lpm / SPP 80 bar to clean the hole.
22:30	23:30	1338	drilling -- circulating conditioning	ok	Pumped 9 m3 LCM pill at 2000 lpm. Chased LCM with 26 m3 seawater. Found that displacement/spotting of pill was wrong and that the pill had been overdisplaced/diluted with approx 8 m3 seawater. Discussed situation. Decided to circulate out LCM pill and mix new LCM.
23:30	00:00	1368	drilling -- circulating conditioning	ok	Displaced out LCM pill with seawater at 3600 lpm.

Equipment Failure Information

Start time	Depth mMD	Depth mTVD	Sub Equip - Syst Class	Operation Downtime (min)	Equipment Repaired	Remark
00:00	854		pipe handling equ syst -- vertical pipe handling equ syst	0	00:00	Problems with racking system

Drilling Fluid

Slurry Test

Sample Time	16:00
Sample Point	Reserve pit
Sample Depth mMD	1381
Fluid Type	OBM-Standard
Fluid Density (g/cm3)	1.44
Funnel Visc (s)	-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
Yield point (Pa)	4
Filtration tests	
Pm filtrate ()	
Filtrate Lthp ()	
Filtrate Hthp ()	
Cake thickn API ()	
Cake thickn HPHT ()	
Test Temp HPHT (degC)	120
Comment	

Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	1381		.99	estimated