

Summary report

Wellbore: 15/9-F-15 A

Period: 2008-12-16 00:00 - 2008-12-17 00:00

Status:	normal
Report creation time:	2018-05-03 13:52
Report number:	6
Days Ahead/Behind (+/-):	
Operator:	StatoilHydro
Rig Name:	MÆRSK INSPIRER
Drilling contractor:	Mærsk Contractors
Spud Date:	2008-12-11 15:00
Wellbore type:	
Elevation RKB-MSL (m):	54.9
Water depth MSL (m):	91
Tight well:	Y
HPHT:	Y
Temperature ():	
Pressure ():	
Date Well Complete:	

Dist Drilled (m):	-999.99
Penetration rate (m/h):	-999.99
Hole Dia (in):	17.5
Pressure Test Type:	formation integrity test
Formation strength (g/cm3):	1.5
Dia Last Casing ():	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMD:	2591
Depth mTVD:	2442
Plug Back Depth mMD:	
Depth at formation strength mMD:	1381
Depth At Formation Strength mTVD:	1349
Depth At Last Casing mMD:	2561.8
Depth At Last Casing mTVD:	2416.2

Summary of activities (24 Hours)

POOH with 17 1/2" drilling BHA from TD m to surface. Overpulls up to 10-15 mT mT experienced at 1385 m MD. Worked string past obstructions with flow of 3000 lpm and rotation of 15-50 rpm. Worked area from 1385 m MD to 1357 m MD. Observed peaks of 20 kNm at 1370 m MD and 1381 m MD. Stopped rotation and circulation and pulled from 1385 m MD to 1357 m MD with no overpull. Racked back BHA in derrick due to high winds. Jetted BOP and wellhead. Retrieved nominal seat protector. Rigged up casing running equipment. Ran 13 3/8" casing to 40 m MD. Checked float.

Summary of planned activities (24 Hours)

Run 13 3/8" casing from 40 m to 1368 m MD. Rig up Tesco casing running equipment. Run casing to 1700 m MD.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:30	2565	drilling -- drill	ok	Discussed situation. Decided to attempt sweeping hole and place LCM pill across the Grid formation. Mixed and weighed 1,43 sg / 167 kg/m3 Calcarb/Steelseal LCM pill. Meanwhile circulated in well at 4500 lpm / SPP 277 bar.
01:30	02:30	2568	drilling -- drill	ok	Pumped 19 m3 LCM pill and chased same with 64 m3 of OBM to put pill across the Grid formation. Pumprate 2000 lpm / SPP 68 bar / 30 RPM.
02:30	03:00	2568	drilling -- drill	ok	Lined up triptank and flowchecked well - prevailing loss trend - still loosing approx 350 l/hr. Discussed situation, decided to start POOH.
03:00	04:00	2366	drilling -- trip	ok	POOH with 17 1/2" drilling BHA on 5 1/2" DP from 2568 m to 2366 m MD. Pulled 5 stands wet.
04:00	05:45	1764	drilling -- trip	ok	Pumped 4 m3 1,63 sg slug allowed mud level to stabilize. POOH with 17 1/2" drilling BHA on 5 1/2" DP from 2366 m 1764 m MD.
05:45	06:00	1764	drilling -- trip	ok	Flowchecked well 15 min due to apparently decreasing loss trend. Well static.
06:00	07:30	1385	drilling -- trip	ok	Filled triptanks. POOH with 17 1/2" drilling BHA on 5 1/2" DP from 1764 m to 1385 m MD. Took 10-15 MT overpull av 1385 m MD.
07:30	09:15	1357	drilling -- trip	ok	Made up TDS to drillstring in order to work through restriction from 1385 m MD. Broke circulation and staged up pumps to 3000 lpm / SPP 111 bar. Rotated at 15-50 rpm and worked area from 1385 m to 1357 m MD. Observed torque peaks of 20 kNm at 1370 and 1381 m MD. Stopped rotation and circulation and pulled from 1385 m to 1357 m MD with no overpull. No overpull detected at shoedepth 1368 m MD.
09:15	10:30	1357	drilling -- drill	ok	Flow checked well at casing shoe. Observed static losses of 130 l/hr. Removed skirt on TDS torque wrench and took measurements for Tesco equipment as required.
10:30	10:45	1357	drilling -- drill	ok	Pumped 5 m3 1,67 sg slug.
10:45	12:15	147	drilling -- trip	ok	POOH with 17 1/2" drilling BHA on 5 1/2" DP from 1357 m to 147 m MD. Tripping speed 806 m/hr.
12:15	12:45	147	drilling -- drill	ok	Flowchecked prior to POOH with BHA - well static. Meanwhile re-arranged equipment on drillfloor for racking 17 1/2" drilling BHA due to winds exceeding set limits for crane. Held toolbox talk for racking back BHA.
12:45	13:30	147	drilling -- drill	ok	Removed PS-30 slips from rotary. Installed masterbushing and bowl. Re-arranged equipment on drillfloor as required for racking BHA.
13:30	16:00	0	drilling -- trip	ok	POOH with 17 1/2" drilling BHA. Broke and racked back 5 1/2" HWDP, DC/accelerator, DC/jar, NMDC/DC and ARC/powerpulse/powerdrive. Gauged and graded bit.
16:00	16:15	0	drilling -- drill	ok	Cleaned and tidied drillfloor.
16:15	18:00	140	drilling -- casing	ok	Picked up jet sub. Picked up and made up WBRRT. RIH on 5 1/2" DP from surface to 140 m MD. Jetted BOP on way in at 3400 lpm / SPP 22 bar.
18:00	18:30	140	drilling -- casing	ok	Jetted across wellhead at 1800 lpm / SPP 18 bar. Pulled nominal seat protector in wellhead.
18:30	20:15	0	drilling -- casing	ok	POOH with WBRRT on 5 1/2" DP from 140 m MD to surface. Released NSP from WBRRT. Broke and laid out WBRRT and jet sub.
20:15	20:45	0	drilling -- casing	ok	Cleared and tidied drillfloor. Inspected aft PRS rollers and dies prior to casing running.
20:45	21:00	0	drilling -- casing	ok	Held toolbox talk for rigging casing running equipment.
21:00	22:30	0	drilling -- casing	ok	Changed elevator on TDS. Installed FJE in aft PRS.
22:30	00:00	0	drilling -- casing	ok	Installed casing tong on IR tracks. Made up DP x-over to 13 3/8" casing swage. Meanwhile lined up cement unit to pump down F-14 injection annulus. Stepped up pressure from 126 bar to 138 bar when sudden leak off to 60 bar was observed. Continued injection and stepped up pump rate to 1000 lpm / CUP 71 bar. Injected 150 m3 seawater at 1000-1200 lpm. After shut in the pressure stabilized at 50 bar after 1 hour (still 50 bar at 07:00).

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
2	17.5 in	NA		Hycalog	.3	1378	1378			10	10	3	.3
16	17.5 in	RSR616 M	M322	Reed-Hycalog	80	1381	1381			15.1	15.1	1210	80

Drilling Fluid

Sample Time	14:00	20:00
Sample Point	Active pit	Active pit
Sample Depth mMD	2591	2591
Fluid Type	OBM-Standard	OBM-Standard
Fluid Density (g/cm3)	-999.99	-999.99
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)	28	29
Yield point (Pa)	11	10
Filtration tests		
Pm filtrate ()		
Filtrate Lthp ()		
Filtrate Hthp ()		
Cake thickn API ()		
Cake thickn HPHT ()		
Test Temp HPHT (degC)	120	120
Comment		