

Summary report

Wellbore: 15/9-F-12

Period: 2007-07-30 00:00 - 2007-07-31 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	48
Days Ahead/Behind (+/-):	
Operator:	Statoil
Rig Name:	MÆRSK INSPIRER
Drilling contractor:	Mærsk Contractors
Spud Date:	2007-03-15 00:00
Wellbore type:	
Elevation RKB-MSL (m):	54.9
Water depth MSL (m):	91
Tight well:	Y
HPHT:	Y
Temperature ():	
Pressure ():	
Date Well Complete:	2007-08-26

Dist Drilled (m):	59.5
Penetration rate (m/h):	-999.99
Hole Dia (in):	17.5
Pressure Test Type:	leak off test
Formation strength (g/cm3):	1.7
Dia Last Casing ():	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMD:	2572.5
Depth mTVD:	2481.5
Plug Back Depth mMD:	
Depth at formation strength mMD:	1353
Depth At Formation Strength mTVD:	1353
Depth At Last Casing mMD:	1357
Depth At Last Casing mTVD:	1333

Summary of activities (24 Hours)

Drilled 17 1/2" hole section from 2523,5 m to section TD at 2572,5 m MD. Circulated hole clean prior to POOH with 17 1/2" drilling BHA.

Summary of planned activities (24 Hours)

Flowcheck well. POOH with 17 1/2" drilling BHA. Break and rack back BHA. Retrieve nominal seat protector. Rig up for running 14" casing. Start running 14" casing.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	00:15	2238	drilling -- t rip	ok	Connected TDS, filled pipe and broke circulation.
00:15	01:30	2470	drilling -- t rip	ok	Continued to RIH with 17 1/2" drilling BHA on 5 1/2" DP from 2238 m to 2470 m MD. Hit obstruction at 2470 m MD.
01:30	02:30	2482	drilling -- t rip	ok	Brought pump up to 4300 lpm / SPP 293 bar and reamed with 120 rpm to clear restriction. Still took some weight on bit. Reduced rate an downlinked Powerdrive according to instructions from DD. Reamed down to 2482 with 0-2 MT WOB while setting Powerdrive.
02:30	03:00	2513	drilling -- t rip	ok	Made connection. Performed SCR. Performed MWD survey. Reamed down to 2513 with 4300 lpm and 120 rpm.
03:00	04:45	2523.5	drilling -- d rill	ok	Drilled 17 1/2" hole from 2513 m to 2523,5 m MD. Drilling parameters : Flow 4360 lpm / SPP 284-296 bar / 180 rpm / 12-19 MT WOB / Torque 23 kNm / ECD 1,391-1,394. ROP 5-7 m/hr s . Trip gas peaked at 12000 ppm.
04:45	06:00	2523.5	drilling -- d rill	ok	Performed survey. Circulated hole clean => Reciprocated on stand, increased pumprate to 4500 lpm / 293 bar SPP / rotation 120 rpm. ECD when starting 1,393. ECD at 06.00 1,389. MW out 1,37. Started to add Graphite and Calcarb to active.
06:00	06:30	2523.5	drilling -- d rill	ok	Continued to circulate hole clean with 4500 lpm.
06:30	07:00	2523.5	drilling -- d rill	ok	Made connection. Performed MWD survey. Stepped up pumps to drilling rate at 4500 lpm.
07:00	08:45	2535	drilling -- d rill	ok	Continued drilling 17 1/2" hole from 2523,5 m to 2535 m MD. Drilling parameters : Flow 4500 lpm / SPP 282 bar / 180 rpm / 20 MT WOB / Torque 24 kNm / ECD 1,38. ROP 5 m/hr s. Failure on mud pump #1 and mud pump #3.
08:45	10:45	2535	interruption -- other	ok	Worked on mud pumps #1 and #3. Changed discharge valve and seat on MP#3. Changed suction valve, seat and cap seal on MP#1. Meanwhile reciprocated and circulated at 1500 lpm / 50 rpm.
10:45	12:00	2541	drilling -- d rill	ok	Continued drilling 17 1/2" hole from 2535 m to 2541 m MD. Drilling parameters : Flow 4500 lpm / SPP 282 bar / 180 rpm / 12 MT WOB / Torque 24 kNm / ECD 1,38. ROP 5 m hr s.
12:00	12:15	2541	drilling -- d rill	ok	Checked for losses - ok.
12:15	14:00	2548	drilling -- d rill	ok	Continued drilling 17 1/2" hole from 2541 m to 2548 m MD. Drilling parameters : Flow 4500 lpm / SPP 282 bar / 180 rpm / 20 MT WOB / Torque 24 kNm / ECD 1,38. ROP 12 m hr s.
14:00	14:15	2548	drilling -- d rill	ok	Checked for losses - ok.
14:15	21:45	2569	drilling -- d rill	ok	Continued drilling 17 1/2" hole from 2548 m to 2569 m MD. Drilling parameters : Flow 4500 lpm / SPP 272-280 bar / 180 rpm / 12-18 MT WOB / Torque 24 kNm / ECD 1,37. ROP 1-2 m hr s. Had drilling break at 2569 m MD, ROP increased to 10 m/hr s over 0,8 m drilled, then decreased again. Dynamic losses of 1-2 m3/hr s. Encountered erratic data on incl. azim. sensor on powerdrive.
21:45	23:30	2572.5	drilling -- d rill	ok	Drilled 17 1/2" hole from 2569 to 2572,5 m MD. Drilling parameters : Flow 4500 lpm / SPP 282 bar / 180 rpm / 12 MT WOB / Torque 24 kNm / ECD 1,37. ROP 1-2 m hr s. Log response indicating top of Ty penetrated. Dynamic losses approx 3 m3/hr s. Lost connection with PowerDrive sensors, incl. az. GR.
23:30	00:00	2572.5	drilling -- d rill	ok	Circulated bottoms up at 4500 lpm to obtain bottom sample.

Equipment Failure Information

Start time	Depth mMD	Depth mTVD	Sub Equip - Syst Class	Operation Downtime (min)	Equipment Repaired	Remark
00:00	40		pipe handling equ syst -- vertical pipe handling equ syst	0	00:00	Problems with fingerboard
00:00	2535		mud and bulk syst -- mud supply	0	00:00	Failure on MP#1 and #3

Drilling Fluid

Sample Time	04:30	10:00	16:00	23:00
Sample Point	Active pit	Active pit	Reserve pit	Active pit
Sample Depth mMD	2520	2520	2558	2572
Fluid Type	HPWBM	HPWBM	HPWBM	HPWBM
Fluid Density (g/cm3)	1.35	1.35	1.35	1.35
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)	35	38	36	36
Yield point (Pa)	11	9.5	10	12.5
Filtration tests				
Pm filtrate ()				
Filtrate Lthp ()				
Filtrate Hthp ()				
Cake thickn API ()				
Cake thickn HPHT ()				
Test Temp HPHT ()				
Comment				

Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	2513		1.05	estimated

Stratigraphic Information

Depth to Top of Formation mMD	Depth to Top of Formation mTVD	Description
2555	2465	Ty Fm

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
2513	2545	2427	2456		Claystone with traces of calcareous siltstones.
2545	2555	2456	2465		Claystones and siltstones w/ occ. quartz grains.
2555	2573	2465	2482		Sandstones with various amount of claystones and siltstones