

Summary report

Wellbore: 15/9-F-12

Period: 2007-07-21 00:00 - 2007-07-22 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	39
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):	62
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:	1431
Depth mTVD:	1403
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)

Performed XLOT to 1,70 EMW. Drilled 17 1/2" hole from 1369 to 1461 m MD. Serviced standpipe manifold valves. Cleaned cuttings conveyer belt after unintentional stop.

Summary of planned activities (24 Hours)

Continue drilling 17 1/2" hole section.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:00	1358	drilling - drill	ok	Continued drilling cement in shoetrack from 1355 m to 1358 m MD. Drilling parameters 4000 lpm / SPP 130 bar / 90 rpm / 3-5 MT WOB / Torque 16 kNm.
01:00	04:15	1367.5	drilling - drill	ok	Drilled cement in rathole from 1358 m to 1367,5 m MD. Drilling parameters 4000 lpm / SPP 131 bar / 50-80 rpm / 3 MT WOB / Torque 15 kNm. Reamed back to shoe for every 2 m drilled. Reamed through shoe without rotation last time - no obstructions. Performed toolbox talk prior to displacement.
04:15	05:45	1367.5	drilling - circulatin g conditioning	ok	Displaced well to 1,35 sg Performadrill KCl mud. Pumped 25 m3 hi-vis followed by 30 m3 of drillwater and 220 m3 1,35 sg Performadrill. Pump rate 2000-4000 lpm / SPP 80-19 0 bar / rotation 20 rpm. Closed dumpline valve and routed interface mud to pit#12.
05:45	06:00	1367.5	drilling - circulatin g conditioning	ok	Routed mud returns to pit#7 and circulated on closed system. Picked up single 5 1/2" DP for drilling rathole.
06:00	07:00	1372	drilling - drill	ok	Drilled from 1367,5 m to 1372 m MD with reduced ROP due to problems with cold mud overflowing the shakers.
07:00	08:00	1372	drilling - circulatin g conditioning	ok	Circulated and conditioned mud at reduced rate 2200 lpm due to overflowing on shakers.
08:00	08:15	1355	drilling - drill	ok	Pulled back into 20" casing without pumping.
08:15	10:00	1355	drilling - drill	ok	Circulated and conditioned mud with bit inside 20" casing. Changed shaker screens to 145 mesh. Established flowrate of 4500 lpm.
10:00	10:15	1355	drilling - drill	ok	Lined up cement unit down standpipe and kill line. Flushed lines with mud prior to XLOT. Closed BOP on 5 1/2" DP.
10:15	10:45	1355	formation evaluati on -- rft/fit	ok	Performed XLOT. Pressured up 1st cycle at 100 lpm. Did not achieve expected response.
10:45	11:00	1355	formation evaluati on -- rft/fit	ok	Verified line up by closing in and releasing 10 bar down drillstring and kill line - ok.
11:00	12:00	1355	formation evaluati on -- rft/fit	ok	Continued XLOT. Pumped 1000 liter at 100 lpm to get to 8-10 bar, zeroed counter. Pumped an additional 500 liter to 26 bar. Unexpected respons. Bled back pressure.
12:00	13:30	1355	formation evaluati on -- rft/fit	ok	Pressured up again with same volume at 200 lpm. Monitored trip tank for leakage above BOP - none detected. Repeated cycle twice more up to approx 50 bar at 100/200 lpm. No definite leak off pressure could be determined. Prepared for work on standpipe valves.
13:30	15:45	1355	interruption -- othe r	ok	Dismantled manual choke valve on standpipe manifold. Greased valve S2, 10 and 11.
15:45	17:15	1355	interruption -- othe r	ok	Pressure tested standpipe manifold. Valves S3, 6, 7, 8 and 11 tested ok.
17:15	18:45	1355	drilling - drill	ok	Lined up pumps and flowline for drilling. Stepped up rate to 4500 lpm. Cycled flowrates 3800/4500 lpm to set Powerdrive according to instructions from DD. Fast procedure failed. Reverted to long procedure, Powerdrive set - ok.
18:45	22:30	1422	drilling - drill	ok	Drilled 17 1/2" section from 1372 m to 1422 m MD. Inserted and drilled with 1 singel to complete tally. Drilling parameters : Flow 4500 lpm / SPP 235 bar / 120 rpm / 10 MT WOB / Torque 15-20 kNm.
22:30	23:00	1422	drilling - drill	ok	Started setting Powerdrive for corrections needed according to directional plan. Cycled rate 3800/4500 lpm. Had overload of cuttings conveyer belt which was shut down by safety switch. Had to stop pumping because the cuttings conveyer belt had stopped.
23:00	23:30	1422	interruption -- othe r	ok	Worked to clean and re-start cuttings conveyer belt.
23:30	00:00	1431	drilling - drill	ok	Continued cycling rate at 3800/4500 lpm to set Powerdrive. Continued drilling from 1422 m to 1431 m MD.

Equipment Failure Information

Start time	Depth mMD	Depth mTVD	Sub Equip - Syst Class	Operation Downtime (min)	Equipment Repaired	Remark
00:00	1355		mud and bulk syst -- hp equipment	0	00:00	Worked on standpipe valves.

Drilling Fluid

Sample Time	08:00	16:00	23:00
Sample Point	Active pit	Active pit	Active pit
Sample Depth mMD	1370	1371	1400
Fluid Type	HPWBM	HPWBM	HPWBM
Fluid Density (g/cm3)	1.35	1.35	1.35
Funnel Visc (s)	-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	35
	30	
Yield point (Pa)	12.5	13
	7.5	
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	1440		1	estimated

Survey Station

Depth mMD	Depth mTVD	Inclination (dega)	Azimuth (dega)	Comment
1393.6	1368	16.99	246.96	
1407.3	1381	17.83	245.6	

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
1380	1440	1354.9	1412.5		Homogenous claystone with thin, rare siltstone horizons and rare calcareous cementation.