

Summary report

Wellbore: 15/9-F-10

Period: 2009-05-02 00:00 - 2009-05-03 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	27
Days Ahead/Behind (+/-):	6.7
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):	-999.99
Penetration rate (m/h):	-999.99
Hole Dia (in):	17.5
Pressure Test Type:	formation integrity test
Formation strength (g/cm3):	1.6
Dia Last Casing ():	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMD:	2616
Depth mTVD:	2294
Plug Back Depth mMD:	
Depth at formation strength mMD:	1389
Depth At Formation Strength mTVD:	1331.7
Depth At Last Casing mMD:	2607.5
Depth At Last Casing mTVD:	2287.5

Summary of activities (24 Hours)

Washed / reamed 13 3/8" casing down from 2235 - 2462 m.

Summary of planned activities (24 Hours)

M/U casing hanger and land casing string on 5 1/2" HWDP. Perform casing cementing operations, leak test casing and set seal assy. Retrieve casing landing string, install WB.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	02:45	2195	drilling -- casing	ok	RIH with stands of 13 3/8" casing from 1848 - 2195 m while simultaneously filling casing with 1.51 sg OBM, lost max 15 tons weight . Attempted to pass through obstruction at 2195 m, no-go.
02:45	03:30	2210	drilling -- casing	ok	Broke circulation and gradually increased pump rate to 1000 lpm / 18 bar. Carefully washed down casing stand to 2210 m. Attempted to RIH with next casing stand without circulation; immediately lost weight.
03:30	06:00	2235	drilling -- casing	ok	Washed down with 13 3/8" casing from 2210 - 2235 m (1500 lpm, 22 bar); lost max 15 tons weight, unable to pass through obstruction. Gradually increased pump rate from 15 00 - 2000 lpm / 22 - 35 bar.
06:00	08:00	2235	drilling -- casing	ok	Circulated 13 3/8" casing at 2000 lpm / 37 bar; had to restart circulation twice due to pack-off, max SPP 75 bar.
08:00	12:15	2290	drilling -- casing	ok	Washed / reamed 13 3/8" casing down from 2235 - 2290 m; 2000 lpm, 16 - 35 bar, 1 rpm, 20 - 25 kNm. Observed increasing drag, packed off casing string at 2290 m.
12:15	13:45	2290	drilling -- casing	ok	Shut down pumps, worked casing string and re-established circulation. Gradually increased pump rate to 2500 lpm / 23 bar.
13:45	18:00	2354	drilling -- casing	ok	Washed / reamed 13 3/8" casing down from 2290 - 2354 m (2500 lpm, 22 - 35 bar, 1 rpm, 20 - 25 kNm); set down max 15 tons on casing.
18:00	18:45	2356	drilling -- casing	ok	Established circulation after connection, worked casing down from 2354 - 2356 m; 2500 lpm, 22 - 35 bar, 1 rpm, 20 - 25 kNm. Packed off casing string at 2356 m.
18:45	19:30	2354	drilling -- casing	ok	Shut down pumps, worked casing string and gradually increased pump rate (2200 lpm, max SPP 40 bar, 1 rpm, max 25 kNm); packed off several times and finally lost returns.
19:30	20:00	2354	drilling -- casing	ok	Worked casing string and attempted to re-establish circulation, no-go.
20:00	20:45	2354	drilling -- casing	ok	Broke out wet and racked back 13 3/8" casing stand in derrick; held pre-job safety meeting with involved personnel prior to operation. Broke casing coupling on box end; had to adjust Weatherford tong back-up jaws accordingly to prevent unscrewing coupling.
20:45	23:15	2354	drilling -- casing	ok	POOH 5 m and verified casing string free. Gradually increased pump rate to 2500 lpm / 23 bar. Circulated BU while reciprocated casing string from 2354 - 2348 m; observed c lean returns over shakers. M/U next casing stand.
23:15	00:00	2357	drilling -- casing	ok	Broke circulation and gradually increased pump rate. Washed 13 3/8" casing down from 2354 - 2357 m; 2500 lpm, 23 bar.

Equipment Failure Information

Start time	Depth mMD	Depth mTVD	Sub Equip - Syst Class	Operation Downtime (min)	Equipment Repaired	Remark
00:00	2385		mud and bulk syst -- mud supply	0	00:00	Wash out in mud pump piston and lost suction.
00:00	1382		pipe handling equ syst -- vertical pipe handling equ syst	0	00:00	Fikk ikke operert øvre / nedre arm på fremre PRS

Drilling Fluid

Sample Time	10:00	23:00
Sample Point	Flowline	Active pit
Sample Depth mMD	2616	2616
Fluid Type	OBM-Standard	OBM-Standard
Fluid Density (g/cm3)	1.51	1.51
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)	38	40
Yield point (Pa)	13	16
Filtration tests		
Pm filtrate ()		
Filtrate Lt_{hp} ()		
Filtrate H_{thp} ()		
Cake thickn API ()		
Cake thickn HPHT ()		
Test Temp HPHT (degC)	120	120
Comment		

Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	2616		1.01	estimated