

Summary report

Wellbore: 15/9-F-10

Period: 2009-04-26 00:00 - 2009-04-27 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	21
Days Ahead/Behind (+/-):	8.5
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 (I):	
Pressure (I):	
Date Well Complete:	2009-06-03

Dist Drilled (m):	235
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 (I):	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMd:	2414
Depth mTVD:	2150.6
Plug Back Depth mMD:	
Depth at formation strength mMD:	1389
Depth At Formation Strength mTVD:	1331.7
Depth At Last Casing mMD:	1388.9
Depth At Last Casing mTVD:	1331.7

Summary of activities (24 Hours)

Drilled and steered 17 1/2" hole from 2179m to 2467m. 4500 l/min, 250-275 bar, 160-180 rpm, 13-23 kNm. WOB 4-8 ton, ROP 15-17 m/hr. Observed stick slip and shock level 2 in BHA at 2432m. MU 15 stands of 13 3/8" as simultaneous operation.

Summary of planned activities (24 Hours)

Drill and steer 17 1/2" Hole from 2467m to 2655mMD. Circulate 3 x bottom up or hole clean. POOH.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	03:45	2155	drilling -- drill	ok	Drilled 17 1/2" hole from 2104m to 2155m. 4490 l/min, 258 bar, 160 rpm, 11-13 kNm. WOB 2-4 ton, ROP 15-17 m/hr.
03:45	04:00	2155	drilling -- drill	ok	Pulled off bottom due to clearing CRI tank. Circulated and reciprocated pipe, 3000 l/min, 125 bar, 60 rpm, 9 kNm.
04:00	06:00	2179	drilling -- drill	ok	Drilled 17 1/2" hole from 2155m to 2179m. 4490 l/min, 258 bar, 160 rpm, 11-13 kNm. WOB 3-5 ton, ROP 15-17 m/hr. MU 3 stands of 13 3/8" casing last 12 hrs.
06:00	12:00	2267	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2179m to 2267m. 4490 l/min, 256 bar, 160 rpm, 11-13 kNm. WOB 2-4 ton, ROP 15-17 m/hr.
12:00	19:00	2361	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2267m to 2361m. 4490 l/min, 258 bar, 160 rpm, 13-15 kNm. WOB 2-4 ton, ROP 15-17 m/hr.
19:00	21:00	2385	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2361m to 2385m. 4530 l/min, 277 bar, 180 rpm, 13-15 kNm. WOB 2-4 ton, ROP 15-17 m/hr. Problem with mud pump.
21:00	21:15	2385	interruption -- maintain	ok	Picked off bottom due to wash out in mud pump 1 piston. Lost suction on mud pumps. Lined up for drilling with 2 mud pumps. Lost suction on CRI pump.
21:15	00:00	2414	drilling -- drill	ok	Problem cleared. Drilled and steered 17 1/2" hole from 2385m to 2414m. 4530 l/min, 277 bar, 180 rpm, 13-15 kNm. WOB 4-6 ton, ROP 15-17 m/hr.

Equipment Failure Information

Start time	Depth mMD	Depth mTVD	Sub Equip - Syst Class	Operation Downtime (min)	Equipment Repaired	Remark
00:00	2062		miscellaneous equ syst -- other	0	00:00	Had to stop drilling and pick off bottom to cleat CRI and conveyers.

Drilling Fluid

Sample Time	04:00	10:00	16:00	21:30
Sample Point	Flowline	Flowline	Flowline	Flowline
Sample Depth mMD	2131	2235	2325	2385
Fluid Type	OBM-Standard	OBM-Standard	OBM-Standard	OBM-Standard
Fluid Density (g/cm3)	1.51	1.51	1.51	1.51
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)	30	32	32	34
Yield point (Pa)	13.5	13	14	13
Filtration tests				
Pm filtrate ( )				

Filtrate Lthp ( )				
Filtrate Hthp ( )				
Cake thickn API ( )				
Cake thickn HPHT ( )				
Test Temp HPHT (degC)	120	120	120	120
Comment				

Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	2467		1	estimated

Survey Station

Depth mMD	Depth mTVD	Inclination (dega)	Azimuth (dega)	Comment
2237.8	2026	45.02	124.92	
2318.5	2083.1	45.05	124.26	
2359.4	2111.9	45.04	124.04	
2399.1	2140	44.98	124.64	
2439.7	2168.7	45.08	125.23	

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
2160	2337	1971.7	2096.8		Claystone with minor Limestone stringers
2337	2440	2096.8	2169.7		Sandstone, with Claystone, Siltstone and Limestone (Grid Fm )

Gas Reading Information

Time	Class	Depth to Top mMD	Depth to Bottom MD	Depth to Top mTVD	Depth to Bottom TVD	Highest Gas (%)	Lowest Gas ( )	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	IC5 (ppm)
00:00	drilling gas peak	2125		1939.9		.53		5264	18	5	3	4
00:00	drilling gas peak	2191		1992.8		.35		3371	7	2	4	4
00:00	drilling gas peak	2231		2020.9		.34		3287	7	2	4	4
00:00	drilling gas peak	2270		2048.3		.33		2944	7	2	5	5
00:00	drilling gas peak	2367		2117.3		.31		2761	27	13	5	9
00:00	drilling gas peak	2413		2149.8		.38		3756	42	8	5	8