Summary report

Wellbore: 15/9-F-10 **Period: 2009-04-27 00:00 - 2009-04-28 00:00**

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	22
Days Ahead/Behind (+/-):	8.3
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):	202
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:	1388.9
Depth At Last Casing mTVD:	1331.7

Summary of activities (24 Hours)

Drilled and steered 17 1/2" hole from 2467m to 2616m, TD of well. 4500 l/min, 275 bar, 150 rpm, 17-19 kNm. WOB 4-7 ton, ROP 15-17 m/hr. Circulated 3 x B/U, flow check prior to pump LCM pill, static loss 400 ltr/hr.

Summary of planned activities (24 Hours)

Pump and displace 38m3 LCM pill, flow check POOH with 17 1/2" BHA.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	02:15	2432	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2414m to 2432m. 4500 l/min, 275 bar, 180 rpm, 13-23 kNm. WOB 6-8 ton, ROP 15-17 m/hr. MWD tool battery empty. All signals work when pumps on, no signal without pumping.
02:15	02:30	2432	drilling -- drill	ok	Picked off bottom and reamed 1 joint due to stick slip and shocks at level 2 in BHA.
02:30	06:00	2467	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2432m to 2467m. 4500 l/min, 275 bar, 160 rpm, 20-26 kNm. WOB 6-8 ton, ROP 10-15 m/hr. Simultaneously mU and racked 15 stands of 13 3/8" casing in derrick over last 24 hrs, 27 stands in total.
06:00	12:00	2550	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2467m to 2550m. 4500 l/min, 275 bar, 150 rpm, 17-19 kNm. WOB 4-7 ton, ROP 15-17 m/hr.
12:00	13:30	2574	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2550m to 2574m. 4500 l/min, 275 bar, 150 rpm, 17-19 kNm. WOB 4-7 ton, ROP 15-17 m/hr.
13:30	14:00	2574	drilling -- drill	ok	Picked off bottom, serviced TDS, 2500 l/min, no rotation.
14:00	17:30	2616	drilling -- drill	ok	Drilled and steered 17 1/2" hole from 2574m to 2616m, TD of section. 4500 l/min, 275 bar, 150 rpm, 17-19 kNm. WOB 4-7 ton, ROP 15-17 m/hr.
17:30	18:45	2616	drilling -- circulating conditioning	ok	Circulated 2000 ltrs at bottom. 4500 l/min, 275 bar, 160 rpm, 17-19 kNm. 2,5m3/hr mud loss.
18:45	21:45	2616	drilling -- circulating conditioning	ok	Circulated hole clean. 4490 l/min, 280 bar, 150 rpm, 12-14 kNm. Reciprocated pipe between 2616m and 2589m. Had 1,5m3/hr mud loss during circulation.
21:45	00:00	2616	drilling -- circulating conditioning	ok	Circulated hole clean. 4490 l/min, 280 bar, 150 rpm, 12-14 kNm. Reciprocated pipe between 2616m and 2589m. Had 1m3/hr mud loss during circulation, increasing to 1,5m3/hr. Started to mix LCM pill.

Drilling Fluid

Sample Time	04:00	10:00	16:00	20:00
Sample Point	Flowline	Flowline	Flowline	Flowline
Sample Depth mMD	2447	2527	2593	2616
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)	36	37	32	39
Yield point (Pa)	15.5	14.5	13	16
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	2616		1	estimated

Survey Station

Depth mMD	Depth mTVD	Inclination (dega)	Azimuth (dega)	Comment
2479.8	2197.1	44.68	125.28	
2519.9	2225.6	44.74	124.88	
2600.4	2282.9	44.53	126.09	

Stratigraphic Information

Depth to Top of Formation mMD	Depth to Top of Formation mTVD	Description
2420	2081	Grid Fm
2591	2276.2	Rogaland Gp

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
2450	2540	2176.7	2240.3		Claystone with minor limestone stringers
2540	2590	2240.3	2275.6		Varicoloured Claystone with minor limestone stringers
2590	2616	2275.6	2294		Varicoloured Claystone, Tuff, and minor Limestone

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	2473		2192.2		.66		6588	61	16	6	8
00:00	drilling gas peak	2493		2206.3		.45		4315	45	16	6	9
00:00	drilling gas peak	2603		2284.6		.5		4384	61	14	7	8