

Summary report

Wellbore: 15/9-F-14

Period: 2008-06-14 00:00 - 2008-06-15 00:00

Status:	normal
Report creation time:	2018-05-03 13:52
Report number:	60
Days Ahead/Behind (+/-):	8.2
Operator:	StatoilHydro
Rig Name:	MÆRSK INSPIRER
Drilling contractor:	Mærsk Contractors
Spud Date:	2007-11-04 00:00
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:	2008-06-15

Dist Drilled (m):	194
Penetration rate (m/h):	-999.99
Hole Dia (in):	8.5
Pressure Test Type:	formation integrity test
Formation strength (g/cm3):	1.56
Dia Last Casing (I):	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMd:	3750
Depth mTVD:	3158.5
Plug Back Depth mMD:	
Depth at formation strength mMD:	2788
Depth At Formation Strength mTVD:	2728.4
Depth At Last Casing mMD:	2783.5
Depth At Last Casing mTVD:	2728.3

Summary of activities (24 Hours)

Continued drilling 8½" hole from 3617m to 3750m TD. Took pressure points, bit depth 3668.7m. Circulated well clean 3 times bottoms up. POOH with 8½" drilling BHA from 3750m to 1919m. Serviced TDS and both PRS's

Summary of planned activities (24 Hours)

Continue POOH with drilling BHA to surface. Change surface handling equipment and RIH with 7" liner to 600m.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:00	3577	drilling -- drill	ok	Continued drilling 8½" hole from 3556m to 3577m. Drilling parameters: Flow 1963 lpm / SPP 175 bar / String RPM 180 / WOB 4-5 MT / TQ 13-17 kNm / ROP 18-30 m/h our / ECD 1.456-1.463 SG / MUD weight 1.35+ SG. Simultaneously transported flow line Co-flex down to the well head.
01:00	01:30	3577	drilling -- survey	ok	Cleaned well prior to take pressure points. Reciprocated the string while cleaning. Parameters: Flow 1963 lpm / SPP 175 bar / String RPM 180 / TQ 11-13 kNm / ECD 1.449-1.461 SG / MUD weight 1.35+ SG.
01:30	02:00	3570.7	drilling -- survey	ok	Down linked and activated the stethoscope, prior to take pressure points. Bit depth 3570.7m, test depth 3545mMD/3029.3TVD, pressure 297.98 bars, mobility 58.39mD.
02:00	02:15	3570.7	drilling -- survey	ok	Down linked and deactivated the stethoscope. Took survey prior to continue drilling ahead.
02:15	04:30	3617	drilling -- drill	ok	Continued drilling 8½" hole from 3577m to 3617m. Drilling parameters: Flow 1963 lpm / SPP 180 bar / String RPM 180 / WOB 5-6 MT / TQ 13-17 kNm / ROP 18-20 m/h our / ECD 1.469-1.471 SG / MUD weight 1.35+ SG.
04:30	05:00	3617	drilling -- survey	ok	Cleaned well prior to take pressure points. Reciprocated the string while cleaning. Parameters: Flow 1963 lpm / SPP 180 bar / String RPM 180 / TQ 11-14 kNm / ECD 1.461-1.474 SG / MUD weight 1.35+ SG.
05:00	05:15	3613.7	drilling -- survey	ok	Down linked and activated the stethoscope, prior to take pressure points. Bit depth 3613.7m, test depth 3588mMD/3053.4TVD, pressure 299.86 bars, mobility 38.08mD.
05:15	05:30	3617	drilling -- survey	ok	Down linked and deactivated the stethoscope. Took survey prior to continue drilling ahead.
05:30	05:45	3617	drilling -- drill	ok	Made up new stand of DP and prepared for drilling ahead.
05:45	06:00	3617	drilling -- other	ok	Rig alarm went of and all personnel mustered. Circulated and rotated pipe.
06:00	13:45	3736	drilling -- drill	ok	Continued drilling 8½" hole from 3617m to 3739m. Drilling parameters: Flow 2000 lpm / SPP 180 bar / String RPM 180 / WOB 9-12 MT / TQ 10-20 kNm / ROP 16-26 m/hour / ECD 1.478-1.491 SG / MUD weight 1.35+ SG.
13:45	14:30	3699	drilling -- survey	ok	Cleaned well prior to take pressure points. Racked back on stand. Parameters: Flow 1600 lpm / SPP 130 bar / String RPM 25 / TQ 11 kNm / ECD 1.447 SG / MUD weight 1.35+ SG.
14:30	14:45	3699	drilling -- survey	ok	Down linked and activated the stethoscope.
14:45	15:15	3668.7	drilling -- survey	ok	Took pressure point: Bit depth 3668.7m, test depth 3643m MD 3089.58m TVD, pressure 302.52 bars, mobility 16.93 mD.
15:15	15:30	3668.7	drilling -- survey	ok	Down linked and deactivated the stethoscope. Took survey prior to continue drilling ahead.
15:30	16:30	3750	drilling -- drill	ok	Continued drilling 8½" hole from 3739m to 3750m. Drilling parameters: Flow 1960 lpm / SPP 185 bar / String RPM 180 / WOB 9-13 MT / TQ 14-20 kNm / ROP 9-26 m/hour / ECD 1.475-1.487 SG / MUD weight 1.35+ SG.
16:30	16:45	3750	drilling -- survey	ok	Down linked Sonic Vision tool in fast record mode.
16:45	19:45	3750	drilling -- other	ok	Circulated well clean 3 time bottom up. Reciprocated the string while cleaning. Parameters: Flow 1960 lpm / SPP 180 bar / String RPM 180 / TQ 12-13 kNm / ECD 1.466-1.473 SG / MUD weight 1.36 SG.
19:45	20:00	3750	drilling -- other	ok	Flow checked the well stable.
20:00	20:15	3745	drilling -- other	ok	Took drag and torque reading. 10 rpm = 7.7 kNm, 20 rpm = 7.9 kNm and 30 rpm = 8.6 kNm. Up/down weight 186/145 MT rotation 159 MT, stretch 2.5m.
20:15	21:45	3536	drilling -- trip	ok	Held tool box talk and started POOH with 8½" drilling BHA wet 5 std. from 3750m to 3536m. Held kick drill. Trip time in open hole 142 m/hours
21:45	22:15	3536	drilling -- trip	ok	Flow checked well, well stable. Simultaneously made up to TDS and pumped 5m³ 1.56 SG slug.
22:15	00:00	3092	drilling -- trip	ok	Continued POOH with 8½" drilling BHA from 3536m to 3092m. Trip time in open hole 253 m/hour.

Drilling Fluid

Sample Time	04:00	09:00	16:30	22:00
Sample Point	Flowline	Flowline	Flowline	Reserve pit
Sample Depth mMD	3610	3669	3750	3750
Fluid Type	OBM-Standard	OBM-Standard	OBM-Standard	OBM-Standard
Fluid Density (g/cm3)	1.35	1.35	1.36	1.36
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)	24	25	26	26
Yield point (Pa)	8	8	9	9
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	3006		1.02	measured

Survey Station

Depth mMD	Depth mTVD	Inclination (dega)	Azimuth (dega)	Comment
3596.2	3059.5	51.69	92.76	
3638.1	3086.3	48.65	94.05	
3678.4	3112.7	49.69	93.65	
3718.8	3138.7	50.17	93.8	
3729.9	3145.8	50.26	93.74	

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
3612	3666	0	0	Pchy (30-70%) mod wh gn dir fluor,v slomod gn/wh strmg cut fluor, no vis cut, pl gn/wh fluor res, no vis res. Show be comes very weak at 3666m and absent below.	
3612	3680	3066.4	3113.6		Sandstone with traces of coal
3666	3750	0	0	No shows	
3680	3750	3113.6	3158.5		Sandstone interbedded with siltstone, claystone and traces of coal

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	3543		3028.5		5.57		35708	3046	1492	110	82
00:00	drilling gas peak	3572		3043		4.62		28462	2535	1316	104	81
00:00	drilling gas peak	3580		3048.2		6.88		42362	3760	1850	136	97
00:00	drilling gas peak	3591		3054.4		4.02		25190	2191	1085	84	67
00:00	drilling gas peak	3604		3062		4.16		26138	2253	1108	86	68
00:00	drilling gas peak	3618		3070.4		3.51		20864	2032	1081	176	229
00:00	drilling gas peak	3637		3085.7		4.86		30790	2214	1100	90	70
00:00	drilling gas peak	3658		3100.6		7.57		44923	3625	1728	130	91
00:00	drilling gas peak	3676		3111.4		3.43		4526	570	364	39	41
00:00	drilling gas peak	3695		3124.8		1.58		8850	856	447	41	45