

Summary report

Wellbore: 15/9-F-14

Period: 2008-06-13 00:00 - 2008-06-14 00:00

Status:	normal
Report creation time:	2018-05-03 13:52
Report number:	59
Days Ahead/Behind (+/-):	7.1
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):	301
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:	3556
Depth mTVD:	3036
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 3335m to 3617m. Took pressure points.

Summary of planned activities (24 Hours)

Drill 8½" hole section from 3617m to TD. Circulate well clean. Pump out to casing shoe.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:30	3225.7	drilling -- survey	ok	Continued taking pressure points. Bit depth 3203.7m, test depth 3178m, pressure 289.71 bars, mobility 217.88 mD Bit depth 3225.7m, test depth 3200m, pressure 289.99 bars, mobility 162.61 mD Took survey prior to continue drilling ahead.
01:30	03:45	3295	drilling -- drill	ok	Continued drilling 8½" hole from 3255m to 3295m. Drilling parameters: Flow 1960 lpm / SPP 175 bar / String RPM 80-160 / WOB 3-6 MT / TQ 10-16 kNm / ROP 8-30 m/hour / ECD 1.465-1.471 SG / MUD weight 1.35 SG.
03:45	04:00	3295	drilling -- survey	ok	Made connection. Took survey prior to continue drilling ahead.
04:00	06:00	3335	drilling -- drill	ok	Continued drilling 8½" hole from 3295m to 3335m. Drilling parameters: Flow 1960 lpm / SPP 175 bar / String RPM 160 / WOB 6-8 MT / TQ 14-15 kNm / ROP 12-22 m/hour / ECD 1.465-1.471 SG / MUD weight 1.35 SG.
06:00	06:30	3335	drilling -- survey	ok	Cleaned well prior to take pressure points. Reciprocated the string while cleaning. Parameters: Flow 2050 lpm / SPP 190 bar / String RPM 160 / TQ 11 kNm / ECD 1.481 SG / MUD weight 1.35 SG.
06:30	07:15	3335	drilling -- survey	ok	Took pressure point: Bit depth 3315.7m, test depth 3290mMD/2839TVD, pressure 291.55 bars, mobility 349.54 mD. Bit depth 3332.7m, test depth 3307mMD/2942.8TVD, pressure 291.83 bars, mobility 55.82 mD.
07:15	07:45	3335	drilling -- survey	ok	Down linked and deactivated the stethoscope. Took survey prior to continue drilling ahead.
07:45	17:15	3497	drilling -- drill	ok	Continued drilling 8½" hole from 3335m to 3497m. Drilling parameters: Flow 2000 lpm / SPP 170-175 bar / String RPM 170-180 / WOB 6-8 MT / TQ 10-16 kNm / ROP 22-27 m/hour / ECD 1.479-1.494 SG / MUD weight 1.35-1.36+ SG. Simultaneously made up 7" casing in stands as a parallel activity and racked back in derrick.
17:15	17:45	3497	drilling -- survey	ok	Down linked and activated the stethoscope, prior to take pressure points. Bit depth 3490.7m, test depth 3465mMD/2993.5TVD, pressure 295.13 bars, mobility 0.1 mD.
17:45	18:00	3497	drilling -- survey	ok	Down linked and deactivated the stethoscope. Took survey prior to continue drilling ahead.
18:00	19:45	3523	drilling -- drill	ok	Continued drilling 8½" hole from 3497m to 3523m. Drilling parameters: Flow 2000 lpm / SPP 180 bar / String RPM 180 / WOB 8 MT / TQ 10-17 kNm / ROP 21-26 m/hour / ECD 1.485-1.494 SG / MUD weight 1.35-1.36+ SG. Due to damaged drag chain of the PDM unable to continue make up 7" casing in stands.
19:45	20:00	3523	drilling -- drill	ok	Took flow check due to unexplainable gain. Well stable.
20:00	21:15	3537	drilling -- drill	ok	Continued drilling 8½" hole from 3523m to 3537m. Drilling parameters: Flow 1963 lpm / SPP 185 bar / String RPM 180 / WOB 8 MT / TQ 14-17 kNm / ROP 8,8-26 m/hour / ECD 1.487-1.494 SG / MUD weight 1.35-1.36+ SG. Add primex to reduces to control MW and solids.
21:15	21:45	3537	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 11-13 kNm / ECD 1.466-1,484 SG / MUD weight 1.35+ SG.
21:45	22:45	3525.7	drilling -- survey	ok	Down linked and activated the stethoscope, prior to take pressure points. Bit depth 3525.7m, test depth 3500mMD/3007.8TVD, pressure 296.21 bars, mobility 5632.91mD.
22:45	23:00	3537	drilling -- survey	ok	Down linked and deactivated the stethoscope. Took survey prior to continue drilling ahead.
23:00	00:00	3556	drilling -- drill	ok	Continued drilling 8½" hole from 3537m to 3556m. Drilling parameters: Flow 1963 lpm / SPP 170 bar / String RPM 180 / WOB 4-6 MT / TQ 12-19 kNm / ROP 17-26 m/hour / ECD 1.447-1.459 SG / MUD weight 1.35+ SG.

Drilling Fluid

Sample Time	04:00	09:00	16:00	22:00
Sample Point	Flowline	Flowline	Flowline	Active pit
Sample Depth mMD	3295	3315	3471	3536
Fluid Type	OBM-Standard	OBM-Standard	OBM-Standard	OBM-Standard
Fluid Density (g/cm3)	1.35	1.36	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	26	23	23
Yield point (Pa)	10.5	8	11	8
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
3315	2944.5	76.91	85.46	
3355.4	2955.4	71.94	85.7	
3395.9	2968.1	71.34	85.44	
3436.2	2982.1	67.98	86.53	
3476.5	2998.1	65.26	89.03	
3514.8	3015.2	61.86	89.99	
3556	3036.1	57.08	91.4	

Stratigraphic Information

Depth to Top of Formation mMD	Depth to Top of Formation mTVD	Description
3286.6	2939.1	Hugin Fm
3680	3113.8	Sleipner Fm

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
3300	3612	0	0	Pchy (40-70%) mod wh gn dir fluor,v slomod gn/wh strmg cut fluor, no vis cut, pl gn/wh fluor res, n o vis res	
3318	3612	2943.4	3066.4		Sandstones with traces of coal, and locally, clayst one

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	3305		2937.9		7.81		47589	3966	1836	128	84
00:00	drilling gas peak	3320		2943.1		6.44		40295	4371	1676	123	85
00:00	drilling gas peak	3331		2944.7		6.4		40280	3633	1820	136	93
00:00	drilling gas peak	3335		2945.3		6.53		39643	3702	1836	137	91
00:00	drilling gas peak	3340		2946		8.22		-999.99	-999.99	-999.99	-999.99	-999.99
00:00	drilling gas peak	3345		2946		8.22		-999.99	-999.99	-999.99	-999.99	-999.99
00:00	drilling gas peak	3350		2953		5.25		33191	2836	1420	103	77
00:00	drilling gas peak	3381		2962.6		7.77		46976	4143	2070	149	103
00:00	drilling gas peak	3396		2969.1		10.19		66009	4311	2147	155	112
00:00	drilling gas peak	3405		2972.7		7.36		44253	3940	1995	149	107
00:00	drilling gas peak	3420		2979		5.44		34029	3039	1592	123	95
00:00	drilling gas peak	3437		2980.9		6.57		41289	2876	1553	125	102
00:00	drilling gas peak	3448		2984.6		7.07		42066	3713	1947	143	110
00:00	drilling gas peak	3459		2988.3		5.2		31620	3191	1755	135	106
00:00	drilling gas peak	3490		3003.6		6.46		38422	3514	1906	147	115

00:00	drilling gas peak	3502		3008.5		9.42		59363	3868	2045	155	118
00:00	drilling gas peak	3515		3014.4		6.07		37997	3240	1638	123	94
00:00	drilling gas peak	3526		3019.5		7.43		45194	4001	1998	149	110