

Summary report

Wellbore: 15/9-F-10

Period: 2009-05-13 00:00 - 2009-05-14 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	38
Days Ahead/Behind (+/-):	8.4
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):	20
Penetration rate (m/h):	-999.99
Hole Dia (in):	12.25
Pressure Test Type:	formation integrity test
Formation strength (g/cm3):	1.4
Dia Last Casing ():	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMD:	3442
Depth mTVD:	2653.7
Plug Back Depth mMD:	
Depth at formation strength mMD:	2619
Depth At Formation Strength mTVD:	2296
Depth At Last Casing mMD:	2607.5
Depth At Last Casing mTVD:	2287.5

Summary of activities (24 Hours)

Drilled 12 1/4" hole from 3433 m to 3442 m, TD of section. Circulated hole clean. POOH with 12 1/4" BHA from 3442 m to 2907 m. Took weight at 2907 m. Pumped out of hole to 2840 m. POOH from 2840 m to 2598 m. Repaired ESD system on rig. POOH with 12 1/4" BHA from 2598 m to 178 m.

Summary of planned activities (24 Hours)

POOH and LD 12 1/4" BHA from 178 m to surface. RU and run 9 5/8" liner. RIH with 9 5/8" liner on 5 1/2" DP to setting depth at 3440 m.

Target for tomorrow at 06:00 hrs: Setting 9 5/8" liner hanger.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	06:00	3433	drilling -- drill	ok	Continued drilling 12 1/4" hole from 3422 m to 3433 m. Parameters: 3500 lpm/ 225-232 bar, 170 RPM/ 21-30 kNm, WOB: 7-13 ton, ROP: 8-13 m/hr, ECD: 1,33-1,34 sg. Note: Hard stringer at 3422 m and from 3428 m to 3433 m. ROP at stringer 1-3 m/hr.
06:00	10:15	3437	drilling -- drill	ok	Continued drilling 12 1/4" hole from 3433 m to 3437 m. Parameters: 3500 lpm/ 229 bar, 170 - 190 RPM/ 17-22 kNm, WOB: 4-10 ton, ROP: 1-3 m/hr, ECD: 1,33 sg. Observed problem with mudpumps. Note: Hard formation from 3433 m to 3437 m.
10:15	11:45	3437	interruption -- maintain	ok	Troubleshoot problems with mud pumps #1 and #2. Repaired liner spray.
11:45	13:30	3442	drilling -- drill	ok	Continued drilling 12 1/4" hole from 3437 m to 3442 m, TD of section. Parameters: 3500 lpm/ 229 bar, 170 - 190 RPM/ 17-22 kNm, WOB: 4-10 ton, ROP: 1-4 m hr, ECD: 1,33 sg. Observed softer formation from 3339 m and increased ROP from 1 m hr to 4 m hr. Note: Hard formation from 3437 m to 3439 m.
13:30	13:45	3442	drilling -- survey	ok	Took survey at 3442 mMD, TD of section. Survey depth: 3426,62 mMD/ 2652,73 mTVD. Inc 85,4dgr - Az 121,89 dgr. Compared to plan: 3,8 m left/ 1,0 m high.
13:45	15:30	3442	drilling -- circulating conditioning	ok	Circulated hole clean while resiprocated string at 3342 m. Parameters: 3500 lpm/ 235 bar, 80 RPM up and 160 RPM down/ 15-19 kNm.
15:30	16:00	3442	drilling -- trip	ok	Flowchecked well on trip tank - static.
16:00	16:15	3442	drilling -- trip	ok	Took up/ down WT and torque readings at 3432 m: 185 ton up/ 127 ton down. Torque: 22 kNm/ 10 RPM and 152 ton rot. WT.
16:15	17:00	3243	drilling -- trip	ok	POOH wet with 12 1/4" BHA on 5 1/2" DP from 3442 m to 3243 m.
17:00	17:15	3243	drilling -- trip	ok	Flowchecked well on trip tank, had initial losses 480 l/hr, but decreasing trend to 360 l hr.
17:15	17:45	3243	drilling -- trip	ok	Dropped 3" drift for 5 1/2" DP. Pumped same down with 2000 lpm/ 87 bar and landed off with 136 bar.
17:45	18:00	3243	drilling -- trip	ok	Pumped and chased 5 m3 1,56 sg slug.
18:00	19:00	2907	drilling -- trip	ok	POOH with 12 1/4" BHA on 5 1/2" DP from 3243 m to 2907 m. Encountered tight spot at 2907 m, max OP 20 ton.
19:00	20:00	2907	drilling -- ream	ok	Attempted to rotate through tight spot at 2907 m, no go. Attempted to ream through with 500 lpm/ 10 bar, 20 RPM/ 14-30 kNm, no go. Observed signs of packing off.
20:00	21:15	2880	drilling -- ream	ok	Run in hole to 2920 m. Attempted to stage pump up to 3500 lpm, no go. Observed 204 bar with 2500 lpm, previously had 136 bar with 2500 lpm. Probable due to drift in string. Remedied out of hole from 2920 m to 2880 m with 2750 lpm/ 244 bar, 30 RPM/ 15-18 kNm.
21:15	22:45	2840	drilling -- ream	ok	Attempted to pull on elevator from 2880 m, no go. Encountered tight spot at 2872 m, max OP 25 ton. Run in hole to 2880 m and M/U TDS. Attempted to rotate through tight spot at 2872 m, no go. Attempted to ream through with 500 lpm/ 18 bar, 20 RPM/ 14-30 kNm, no go. Reamed out of hole from 2880 m to 2840 m with 2750 lpm/ 245 bar, 30 RPM/ 15-25 kNm.
22:45	23:30	2598	drilling -- trip	ok	POOH wet with 12 1/4" BHA on 5 1/2" DP from 2840 m to 2598 m and into the 13 3/8" shoe. No restriction observed in rest of OH or shoe area.
23:30	23:45	2598	drilling -- trip	ok	Flowchecked well on trip tank, static.
23:45	00:00	2598	drilling -- trip	ok	Took up/ down WT and torque readings at 2598 m: 172 ton up/ 136 ton down. Torque: 11-13 kNm/ 10 RPM, 10-14 kNm/ 20 RPM and 154 ton rot. WT.

Drilling Fluid

Sample Time	03:00	11:00	14:00	22:00
Sample Point	Flowline	Flowline	Flowline	Active pit
Sample Depth mMD	3429	3425	3442	3442
Fluid Type	Enviromul Yellow	Enviromul Yellow	Enviromul Yellow	Enviromul Yellow
Fluid Density (g/cm3)	1.3	1.31	1.3	1.3
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	27	24	24
Yield point (Pa)	10	11	11.5	11
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	3442		1.03	estimated

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
3433	3442	2652	2653.9		Limestone