

Summary report

Wellbore: 15/9-F-11 B

Period: 2013-06-15 00:00 - 2013-06-16 00:00

Status:	normal
Report creation time:	2018-05-03 13:51
Report number:	19
Days Ahead/Behind (+/-):	11.5
Operator:	Statoil
Rig Name:	MÆRSK INSPIRER
Drilling contractor:	Maersk Drilling
Spud Date:	2013-05-28 14:30
Wellbore type:	
Elevation RKB-MSL (m):	54.9
Water depth MSL (m):	91
Tight well:	Y
HPHT:	Y
Temperature ():	
Pressure ():	
Date Well Complete:	2013-06-12

Dist Drilled (m):	-999.99
Penetration rate (m/h):	-999.99
Hole Dia ():	
Pressure Test Type:	formation integrity test
Formation strength (g/cm3):	1.65
Dia Last Casing ():	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMD:	4770
Depth mTVD:	3257
Plug Back Depth mMD:	
Depth at formation strength mMD:	3192
Depth At Formation Strength mTVD:	2780
Depth At Last Casing mMD:	4768.7
Depth At Last Casing mTVD:	3257

Summary of activities (24 Hours)

RIH with 7" liner on 5 1/2" landing string from 4254m MD to TD and 4770m MD.
Set liner hanger.
Circulated and conditioned mud prior to cement job.
Cemented 7" liner and set liner packer.
Pulled out of hole with 7" liner hanger packer.

Summary of planned activities (24 Hours)

Pull out of hole with liner hanger running tool on 5 1/2" drill pipe.
Perform wellbore preparation - Wash/Jet BOP and riser.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	02:30	4745	drilling -- casing	ok	RIH with 7" liner on 5 1/2" landing string from 4254m MD to 4745m MD. Average tripping speed 196 m/hr. No losses to formation.
02:30	03:45	4770	drilling -- casing	ok	Established circulation with 250 lpm and 60 bar. Verified parameters (up / down weights) and ran in hole with 7" liner on 5 1/2" drill pipe from 4254m MD and tagged T D at 4271m MD. Meanwhile: Performed toolbox talk prior to make up cement stand.
03:45	05:00	4770	drilling -- casing	ok	Spaced out with liner hanger to 3100m MD, liner shoe at 4769 m MD. Made up cement head.
05:00	07:30	4770	drilling -- casing	ok	Attempted to establish circulation with 100 lpm. Immediately triggered electronic popoff set at 70 bar. Investigated pressure build up in cement head.
07:30	10:00	4771	drilling -- casing	ok	Broke out and laid down cement head and drill pipe pup. Inspected same. Meanwhile: Cleaned and tidied rig floor. Established circulation with 360 lpm and 68 bar after confirmation that both darts were still in the cement head.
10:00	12:00	4770	drilling -- casing	ok	Broke off top drive and picked up and made up cement head. Dressed same.
12:00	16:45	4770	drilling -- casing	ok	Established circulation to 850 lpm and 87 bar in steps. Circulated 2 x open hole volume. Established rotation at 20 rpm and 25-28 kNm. Continued circulating bottoms up with 850 lpm and 87 bar.
16:45	17:45	4770	drilling -- casing	ok	Dropped ball and circulated same down with 500 lpm and 60 bar. Activated hanger and verified hanger set by slackening off 30MT - ok.
17:45	18:00	4770	drilling -- casing	ok	Sheared out ball seat by pumping with 225 bar.
18:00	19:30	4770	drilling -- casing	ok	Established loss free circulation with 900 lpm and 90 bar, and rotation with 20 rpm and 19-24 kNm. Circulated and conditioned mud prior to cement operation.
19:30	19:45	4770	drilling -- casing	ok	Pressure tested surface lines to 200 bar for 10 minutes - ok.
19:45	23:15	4770	drilling -- casing	ok	Pumped 5 m3 of 0.8 sg base oil at 900 lpm and 15 m3 of 1.35 sg tuned spacer followed by 3 m3 0.8 sg base oil. Closed IBOP and put 30 bar above. Opened lo-torque valve and dropped dart #1 for bottom plug. Mixed and pumped 26.7m3 1.90 sg cement slurry followed by 900 liter of drill water to displace lines. Dropped dart #2. Lined over to rig pumps and displaced cement with 1.32 sg oil based mud and 900 lpm. Sheared out bottom viper plug at 220 strokes. Sheared out top viper plug at 1467 strokes. Landed bottom viper plug at 1650 strokes. Landed top viper plug at 2910 strokes. Calculated efficiency: 95.8% Rotated with 20 rpm to 2700 strokes. Stopped rotating liner after 2700 strokes due to torque limit exceeded. Reduced pump rate to 500 lpm at 2830 strokes. Bumped top viper plug with 130 bar circulating pressure and pressurized up to 270 bar for 5 minutes - ok.
23:15	23:30	4770	drilling -- casing	ok	Bled down pressure to 5 bar to trip tank and perform inflow test for 5 minutes - no backflow.
23:30	00:00	4770	drilling -- casing	ok	Pulled running tool up 4.2 m . Applied 30 tonne to set liner packer.

Drilling Fluid

Sample Time	14:00
Sample Point	Flowline
Sample Depth mMD	4770
Fluid Type	Enviromul Yellow
Fluid Density (g/cm3)	1.32
Funnel Visc (s)	-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)	40
Yield point (Pa)	12.5
Filtration tests	
Pm filtrate ()	
Filtrate Ltph ()	
Filtrate Hthp ()	
Cake thickn API ()	
Cake thickn HPHT ()	
Test Temp HPHT (degC)	120
Comment	