Summary report

Wellbore: 15/9-19 B **Period: 1997-11-14 00:00 - 1997-11-15 00:00**

Status:	normal
Report creation time:	2018-05-03 13:53
Report number:	6
Days Ahead/Behind (+/-):	
Operator:	Statoil
Rig Name:	BYFORD DOLPHIN
Drilling contractor:	
Spud Date:	1997-11-10 00:00
Wellbore type:	
Elevation RKB-MSL (m):	25
Water depth MSL (m):	85
Tight well:	Y
HPHT:	Y
Temperature ():	
Pressure ():	
Date Well Complete:	

Dist Drilled (m):	222
Penetration rate (m/h):	-999.99
Hole Dia (in):	8.5
Pressure Test Type:	leak off test
Formation strength (g/cm3):	1.73
Dia Last Casing ():	

Depth at Kick Off mMD:	2911
Depth at Kick Off mTVD:	
Depth mMd:	3039
Depth mTVD:	2315.8
Plug Back Depth mMD:	
Depth at formation strength mMD:	
Depth At Formation Strength mTVD:	
Depth At Last Casing mMD:	
Depth At Last Casing mTVD:	

Summary of activities (24 Hours)

DRILLED FROM 2850 TO 3035M. LOST RETURNS, MIXED AND PUMPED LCM PILL NO SIGNIFICANT IMPROVEMENT FROM PILL. DRILLED 4 M WITHOUT RETURN BEFORE SPOTTING LCM PILL. LOST 43 M3 MUD TO FORMATION. FLOW CHECKED POOH TO SHOE, WELL FLOWED BACK WITH 14,1 M3. ATTEMPTED TO ESTABLISH CIRC. NO SUCCESS. POOH WITH REDUCED SPEED DUE TO FLOW BACK DURING TRIP.

Summary of planned activities (24 Hours)

CONTINUE POOH. RIH WITH 3 1/2" DP STINGER AND SPOT LCM/CMT PILL. POOH RIH WITH DRILLING BHA AND CLEAN OUT WELL, CONTINUE DRILLING.

Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	06:00	2850	drilling -- drill	ok	ORIENTED AND ROTATED FROM 2817M TO 2850M. FREQUENTLY STALLING MOTOR. ROTATING MODE; 40-50 M/HR WITH 1-2T WOB.
06:00	15:30	3035	drilling -- drill	ok	CONTINUED DRILLING AND ORIENTING FROM 2850M TO 3035M - LOST RETURNS.
15:30	18:30	3035	interruption -- lost circulation	fail	FLOW CHECKED, WELL STATIC. ATTEMPTED TO REGAIN CIRCULATION BY STAGING PUMPS, 100 % RETURNS BELOW 400 L/MIN. MIXED LCM PILL.
18:30	21:30	3039	interruption -- lost circulation	fail	PUMPED 8 M3 NUT PLUG COARSE, MICA COARSE AND LIGNOCEL (WOOD FIBRE) TOTAL CONCENTRATION, 222,8 KG/M3/1,8 SG. CLEARED SUCTION STRAINERS ON MUD PUMPS PRIOR TO DISPLACING PILL. DURING DISPLACING; DRILLED FROM 3035M TO 3039M NO RETURNS. OBSERVED 17-18 BAR PRESS INCREASE WHEN LCM PASSED BHA. PULLED BACK TO 3030M. STAGED PUMPS TO REGAIN CIRC.
21:30	22:30	2927	interruption -- lost circulation	fail	ATTEMPTED TO ESTABLISH CIRC. LOSSES TO FORMATION STARTED ABOVE 400 L/MIN. LOST TOTAL 43 M3 MUD. POOH WET TO 2927M.
22:30	23:00	2927	interruption -- lost circulation	fail	FLOW CHECKED, WELL STATIC.
23:00	00:00	2530	interruption -- lost circulation	fail	POOH TO 2530M. FLOWED BACK 14 M3, THEN HOLE TOOK NORMAL AMOUNT OF MUD

Drilling Fluid

Sample Time	00:00	06:00
Sample Point	Active pit	Active pit
Sample Depth mMD	2817	2817
Fluid Type	ULTIDRILL	ULTIDRILL
Fluid Density (g/cm3)	1.55	1.55
Funnel Visc (s)	81	81
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)	42	42
Yield point (Pa)	16.5	16.5

Filtration tests		
Pm filtrate ()		
Filtrate Lthp ()		
Filtrate Hthp ()		
Cake thickn API ()		
Cake thickn HPHT ()		
Test Temp HPHT ()		
Comment		

Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	3039		1.03	estimated

Survey Station

Depth mMD	Depth mTVD	Inclination (dega)	Azimuth (dega)	Comment
2838	2147.2	29.7	165	
2868	2172.9	32.3	160.4	
2897	2197.3	33.6	157.4	
2926	2221.4	33.5	156.7	
2955	2245.6	33.5	157.4	
2984	2269.8	33.4	158.2	

Stratigraphic Information

Depth to Top of Formation mMD	Depth to Top of Formation mTVD	Description
2971	2259	Balder Fm .

Lithology Information

Start Depth mMD	End Depth mMD	Start Depth TVD	End Depth TVD	Shows Description	Lithology Description
2830	-999.99				CLAYSTONE WITH SANDSTONE STRINGERS
2850	-999.99				CLAYSTONE WITH TRACES OF LIMESTONE
2971	-999.99				CLAYSTONE WITH TUFFACEOUS BEDS 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	3036		2313		11.21		81355	2570	38	2	-999.99
00:00	drilling gas peak	3036.1		2313		11.84		82830	2480	29	2	-999.99
00:00	drilling gas peak	3036.2		2313		11.15		81220	1840	30	2	-999.99
00:00	drilling gas peak	3036.3		2313		12.06		89570	2927	33	2	-999.99
00:00	drilling gas peak	3036.4		2313		14.32		101745	3890	35	1	-999.99
00:00	drilling gas peak	3036.5		2313		14.68		108108	2741	38	1	-999.99
00:00	drilling gas peak	3036.6		2313		17.25		139682	2810	46	1	-999.99
00:00	drilling gas peak	3036.7		2313		18.98		155702	2598	46	1	-999.99