

## Summary report

Wellbore: 15-9-19 ST2

Period: 1993-01-05 00:00 - 1993-01-06 00:00

Status:	normal
Report creation time:	2018-05-03 13:53
Report number:	67
Days Ahead/Behind (+/-):	
Operator:	Statoil
Rig Name:	TREASURE PROSPECT
Drilling contractor:	UNKNOWN
Spud Date:	1992-09-15 01:00
Wellbore type:	
Elevation RKB-MSL (m):	22
Water depth MSL (m):	84
Tight well:	Y
HPHT:	Y
Temperature ():	
Pressure ():	
Date Well Complete:	1993-01-28

Dist Drilled (m):	63
Penetration rate (m/h):	-999.99
Hole Dia (in):	12.25
Pressure Test Type:	
Formation strength (g/cm3):	1.73
Dia Last Casing ():	

Depth at Kick Off mMD:	
Depth at Kick Off mTVD:	
Depth mMd:	3204
Depth mTVD:	2174.2
Plug Back Depth mMD:	
Depth at formation strength mMD:	1482
Depth At Formation Strength mTVD:	1270
Depth At Last Casing mMD:	1481.7
Depth At Last Casing mTVD:	

## Summary of activities (24 Hours)

-DRILLED/ORIENTATED 12 1/4" HOLE FROM 3168M TO 3174M.  
 -DRILLED 12 1/4" HOLE FROM 3174M TO 3188M.  
 -ATTEMPTED TO GET SURVEY. NEG.  
 -DRILLED 12 1/4" HOLE FROM 3188M TO 3195M.  
 -ORIENTATED FROM 3195M TO 3198M, HAD PROBLEMS WITH MWD TOOL.  
 -DRILLED 12 1/4" HOLE FROM 3198M TO 3202M.  
 -ORIENTATED FROM 3202M TO 3204M, HAD PROBLEMS WITH MWD TOOL.  
 -POOH TO 2898M AND CIRCULATED WELL CLEAN. CHANGED OUT  
 TRANSDUCER ON TOP OF STANDPIPE.  
 -POOH TO 2500M AND TESTED OUT MWD EQUIPMENT. EVERYTHING OK.  
 -RIH TO 3204M.  
 -ATTEMPTED TO ORIENT 12 1/4" HOLE, HAVING PROBLEMS WITH MWD.

## Summary of planned activities (24 Hours)

-POOH TO CHANGE TO TELECO MWD.

## Operations

Start time	End time	End Depth mMD	Main - Sub Activity	State	Remark
00:00	01:00	3141	interrupt on -- rep air	fail	UNABLE TO OBTAIN READABLE SIGNALS FROM MWD. 45 MIN LOST TIME.
01:00	02:00	3157	interrupt on -- side track	ok	DRILLED 12 1/4" HOLE FROM 3141M TO 3157M.
02:00	04:00	3157	interrupt on -- rep air	fail	TROUBLESHOOTING SYSTEM TO GET READABLE DATA FROM MWD. UNABLE TO DETECT SOURCE OF PROBLEM. OBTAINED SURVEY BY USING MUDPUMP NO.3 AT 115 STKS. SUCTION MODULE ON MUD PUMP NO.1 DEVELOPED A LEAK, HAD TO BE CHANGED OUT.
04:00	04:30	3166	interrupt on -- side track	ok	DRILLED 12 1/4" HOLE FROM 3157M TO 3166M.
04:30	05:00	3166	interrupt on -- side track	ok	TOOK SURVEY AT 3143M. HAD PROBLEMS WITH MWD SIGNAL.
05:00	05:30	3166	interrupt on -- rep air	fail	PUMP NO.3 LOST SUCTION DUE TO LEAK IN SUPERCHARGE FILTERBOX.
05:30	06:00	3168	interrupt on -- side track	ok	STEARED 12 1/4" HOLE FROM 3166M TO 3168M. WITH GOOD SIGNALS FROM MWD. USING MUD PUMP NO.2 AT 125 STKS.
06:00	07:00	3174	interrupt on -- side track	ok	DRILLED/ORIENTATED 12 1/4" HOLE FROM 3168M TO 3174M. GOOD MWD READINGS. USED MUD PUMP NO.2 AT 2020LPM.
07:00	07:30	3174	interrupt on -- side track	ok	TOOK SCR. LINED UP MUD PUMPS NO.2 AND 3.
07:30	09:30	3188	interrupt on -- side track	ok	DRILLED 12 1/4" HOLE FROM 3174M TO 3188M. DRILLING PARAMETERS: 160 RPM, 2330LPM, 265BAR.
09:30	10:00	3188	interrupt on -- side track	fail	ATTEMPTED TO TAKE SURVEY, NEGATIVE. LOST 40 MINUTES.
10:00	11:30	3195	interrupt on -- side track	ok	DRILLED 12 1/4" HOLE FROM 3188M TO 3195M.
11:30	14:00	3198	interrupt on -- side track	ok	TOOK SURVEY AT 3195M. ORIENTATED FROM 3195M TO 3198M. USED MUD PUMP NO.2 AT 2020LPM. CHANGED TO MUD PUMP NO.3 AT 3196M DUE TO WASHOUT IN VALVE ON PUMP NO.2. HAD CONTINUOUSLY PROBLEMS WITH LOCKING ON TO MWD SIGNAL AND WITH MUD MOTOR STALLING OUT. LOST 1,5 HRS. FINALLY MANAGED TO ORIENTATE USING BOTH MUD PUMPS NO.2 AND 3.
14:00	14:30	3202	interrupt on -- side track	ok	DRILLED 12 1/4" HOLE FROM 3198M TO 3202M. DRILLING PARAMETERS: 2390LPM, 270BAR. NO GAMMA RAY OR DIRECTIONAL DATA OBTAINED.
14:30	16:30	3204	interrupt on -- side track	ok	ORIENTATED 12 1/4" HOLE FROM 3202M TO 3204M. HAD PROBLEMS WITH DIRECTIONAL DATA AND WITH MUDMOTOR STALLING OUT. LOST 1,5 HRS ON ACTUAL SURVEY PROBLEMS.
16:30	17:30	3204	interrupt on -- side track	ok	POOH TO 2898M. TIGHT SPOTS AT 3046M AND 3010M. STARTED CIRCULATING BUTTONS UP WITH 2556LPM, 270BAR, 165RPM.
17:30	21:30	2898	interrupt on -- side track	ok	CIRCULATED HOLE CLEAN. MAX AMOUNT OF CUTTINGS OVER SHAKERS WAS 8,7 KG/15 SEC. CIRCULATION RATE 2500 LTRS ON DP AND 750 LTRS ON RISER. 160 RPM ON STRING. RACKED TWO STANDS BACK WHILE REAMING.
21:30	22:30	2842	interrupt on -- rep air	fail	ANADRILL REPLACED TRANSDUCER ON TOP OF STANDPIPE. PUMPED THROUGH CEMENT HOSE ON PUMP-IN SUB WHILE RECIPROCATING STRING. PUMP SPEED 1600 LPM.

22:30	00:00	2842	interrupti on -- side track	ok	STARTED PULLING UP TO 2500M FROM 2842M TO PERFORM TESTS ON ANADRILL MWD EQUIPMENT.
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### Drilling Fluid

<b>Sample Time</b>	08:30	15:00	21:00
<b>Sample Point</b>	Flowline	Flowline	Flowline
<b>Sample Depth mMD</b>	3180	3202	3204
<b>Fluid Type</b>	PETROFREE	PETROFREE	PETROFREE
<b>Fluid Density (g/cm3)</b>	1.6	1.6	1.6
<b>Funnel Visc (s)</b>	112	97	118
<b>Mf ()</b>			
<b>Pm ()</b>			
<b>Pm filtrate ()</b>			
<b>Chloride ()</b>			
<b>Calcium ()</b>			
<b>Magnesium ()</b>			
<b>Ph</b>			
<b>Excess Lime ()</b>			
<b>Solids</b>			
<b>Sand ()</b>			
<b>Water ()</b>			
<b>Oil ()</b>			
<b>Solids ()</b>			
<b>Corrected solids ()</b>			
<b>High gravity solids ()</b>			
<b>Low gravity solids ()</b>			
<b>Viscometer tests</b>			
<b>Plastic visc. (mPa.s)</b>	54	53	53
<b>Yield point (Pa)</b>	14	13	13
<b>Filtration tests</b>			
<b>Pm filtrate ()</b>			
<b>Filtrate Lthp ()</b>			
<b>Filtrate Hthp ()</b>			
<b>Cake thickn API ()</b>			
<b>Cake thickn HPHT ()</b>			
<b>Test Temp HPHT ()</b>			
<b>Comment</b>			

### Pore Pressure

Time	Depth mMD	Depth TVD	Equ Mud Weight (g/cm3)	Reading
00:00	2920		1.2	estimated
00:00	3204		1.04	estimated

### Survey Station

Depth mMD	Depth mTVD	Inclination (dega)	Azimuth (dega)	Comment
3170.3	2154.7	54.6	281.5	

### Lithology Information

Start Depth mMD	End Depth mMD	Start Depth mTVD	End Depth mTVD	Shows Description	Lithology Description
3158	3204	2147.2	2174.2		SANDTONE WITH INTERBEDDED CLAYSTONE