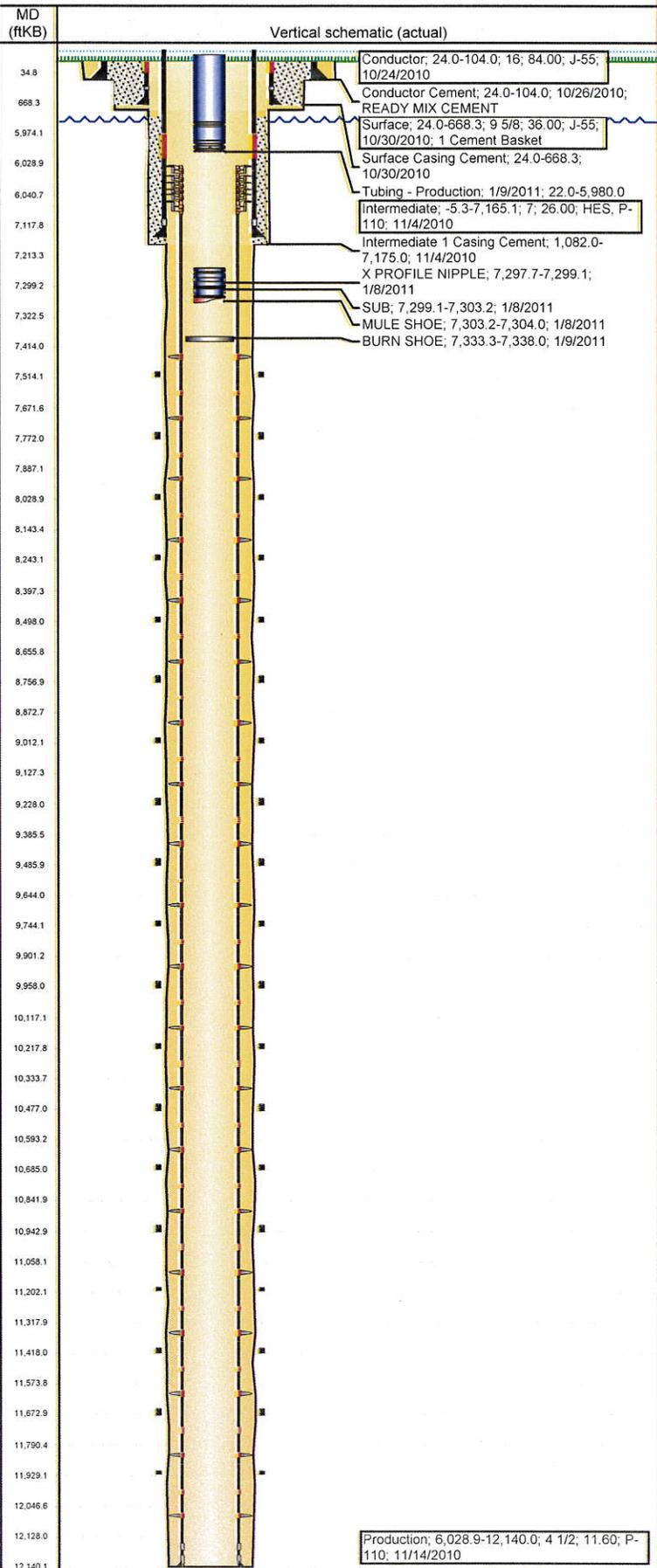


Well Name: STATE A36-99HZ

HORIZONTAL - ORIGINAL HOLE, 10/29/2012 10:33:58 AM



Stimulations & Treatments

Date	Zone	Primary Job Type
12/2/2010	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	

Comment (CODELL)

(STAGE #1): AFTER ISIP, SHUT DOWN DUE TO PUMP ISSUES (OVER HEATING & BAD PACKING). DOWN 12 MIN.

(STAGE #2): AFTER BREAK, SHUT DOWN DUE TO FRAC PUMP ISSUES. DOWN 26 MIN.

(STAGE #3): MORE PUMP ISSUES, PROBLEMS KEEPING RATE.

(STAGE #4): AFTER SW 1/2# HAD PROBLEMS WITH HYDRO. SWAPPED BACK TO SW TO FLUSH. DOWN 20 MINUTES. ADDED 200 BBLs TO GEL STAGE. MORE PUMP ISSUES (FLUID END). MAX RATE OF 54BPM.

(STAGE #5): MORE PUMP ISSUES (OVERHEATING).

(STAGE #6): FOUR OPERATIONAL PUMPS REMAINING, MAX ATTAINABLE RATE OF 43 BPM. SHUT DOWN AFTER BREAK TO REPAIR PUMPS AND WAIT FOR MORE. DOWN 5-1/2 HOURS.

(STAGE #7): FR QUIT RUNNING AND COULD NOT GET IT GOING, FRAC PUMPS KICKED. CAME BACK ON WITH GEL STAGE 60 BBLs EARLY. EXTENDED GEL PAD BY 70 BBLs.

(STAGE #8): HAD ISSUES WITH VICON PUMP, SWAPPED PUMPS AND CONTINUED PUMPING.

(STAGE #10): ISSUES WITH FR. MORE PUMP ISSUES (FLUID END). SWAPPED PUMPS AND RESUMED.

(STAGE #11): SHUT DOWN AFTER BREAK TO SWAP DRY GEL UNITS AND REPAIR PUMPS. DOWN 7 HOURS. WASHED CHECK VALVE OUT ON MISSILE DURING 4# SB EXCEL STAGE. FLUSHED WELL WITH ONE PUMP BYPASSING MISSILE. FLUID COMING OUT AT SURFACE OF OBSERVATION WELL (STATE A36-21). DROPPED BALL #12 AND LET FALL WHILE WAITING FOR PART TO REPAIR MISSILE AND PULL PINNACLE TOOLS OUT OF OBSERVATION WELL. DOWN 5 HOURS.

(STAGE #12): SCREW TOOK OFF ON SB EXCEL AND WENT TO 7 PSA.

(STAGE #13): T-BELT FOR THE SAND LOCKED UP DURING 1/2# SW. FLUSHED WELL AND SHUT DOWN. DOWN 16 MIN.

(STAGE #17): SCREENED OUT ON 1/2# SLICKWATER. FLOWED BACK 300BBLs. DROPPED BALL #18. USED LEFT OVER 40/70 AND SB EXCEL FROM #17 ON #18, 19 & 20.

(STAGE #18): 3# HIT FORMATION CAUSED PRESSURE TO INCREASE. CUT SAND, BUT COULDN'T FLUSH. FLOWED WELL BACK. DROPPED BALL #19.

(STAGE #19): WASHED OUT MISSILE DURING 1/2# STAGE. FLUSHED WELL WITH ONE PUMP BYPASSING MISSILE. DOWN 4 HOURS. RESUMED FRAC, SCREENED OUT DURING 3#.

(STAGE #20): SCREENED OUT DURING 4# STAGE. BEGAN FLOW BACK.

Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Blm (ftKB)
1/8/2011	MULE SHOE	2 3/8	7,303.2	7,304.0
1/8/2011	SUB	2 3/8	7,299.1	7,303.2
1/8/2011	X PROFILE NIPPLE	2 3/8	7,297.7	7,299.1
1/9/2011	BURN SHOE	3 5/8	7,333.3	7,338.0

Logs

Date	Type	Top (ftKB)	Blm (ftKB)
11/23/2010	CBL/CCL/GR	24.0	5,992.0
1/4/2011	COLLAR LOCATOR	0.0	4,574.0
9/25/2012	GYRO	0.0	5,900.0