

- 02-10-15 RIGGING UP; MOVED IN TOP SECTION OF DERRICK AND CONTINUE TO RIG UP; NOTE: CURRENTLY LOOKING AT SPUDDING WEDNESDAY MORNING.
- 02-11-15 TROUBLESHOOTING DRAWWORKS COMMUNICATION ISSUES; CHANGED OUT LINERS & SWABS IN BOTH PUMPS. CONTINUE TO RIG UP; PREP TO REPAIR DRAWWORKS ISSUES, RAISE DERRICK, INSTALL TOP DRIVE & SPUD; NOTE: HAD ELECTRICAL ISSUES WITH THE DRAWWORKS; EDWC \$37,437; ETWC \$283,304.
- 02-12-15 RIGGING UP TOP DRIVE & INSTALLING SERVICE LOOPS; COMPLETE TROUBLESHOOTING THE DRAWWORKS COMMUNICATION ISSUES, RAISE DERRICK, RIG UP TOP DRIVE; PREP TO COMPLETE RIG UP OF TOP DRIVE, WELD ON CONDUCTOR PIPE, SPUD; NOTE: OUTPUT CONTROL MODULE IN THE DRILLERS DOGHOUSE WAS REPLACED AND APPEARS TO HAVE BEEN THE PROBLEM WITH THE DRAWWORKS.; EDWC \$35,685; ETWC \$318,989.
- 02-13-15 PRESENT OPERATION: RIGGING UP; WORK ON WEIGHT INDICATOR. PREP TO SPUD DRILLING 17-1/2" SURFACE HOLE TO 1480'; NOTE: HAD ISSUES WITH THE TOP DRIVE AND POSSIBLE RLA SEAL LEAK & BENT SHAFT. THE POTENTIAL PROBLEMS WERE CHECKED OUT AND DETERMINED BY LATSHAW TOP DRIVE SPECIALIST (DAVID) THAT THE CONCERNS WERE NOT VALID; EDWC \$34,942; ETWC \$353,931.
- 02-14-15 (1) DRILLING SURFACE 660' (660'); SUMMARY: FINISH RIGGING UP, REPAIR TOPDRIVE, SPUD 2/13/15 @ 12:30 P.M. AND DRILL AHEAD; HOURLY: 3 HRS REPACK SWIVEL, FIX WEIGHT INDICATOR, RIG UP TONG GAUGE, STRAP BHA; 3-1/2 HRS PU SURFACE BHA; 1 HR ROT-11'; 2 HRS REPAIR DRESSER SLEEVE ON FLOWLINE AND L/D 17 1/2" STAB; 1/2 HR ROT-30'; 2 HRS REPAIR TOP DRIVE STABBING GUIDE AND P/UP 17-1/2" REAMER; 12 HRS ROT-565'; EDWC \$32,575; ETWC \$386,506.
- 02-15-15 (2) LD BHA 1480' (814'); SUMMARY: TD SURFACE, CIRC, POOH LD BHA; HOURLY: 20 HRS ROT-814'; 1-1/2 HRS CIRC SWEEP; 1-1/2 HRS POOH; 1 HR L/D BHA; COMMENTS: TELEDRIFT STOPPED WORKING PRIOR TO TD. WILL SURVEY WHEN DRILL OUT; EDWC \$34,171; ETWC \$420,677.
- 02-16-15 (3) FIN RUNNING CSG 1480' (0'); SUMMARY: FINISH L/D BHA, R/UP CASERS, RUN CASING, R/D CASERS, R/UP CEMENTERS, CIRC, CEMENT, R/D CEMENTERS, CLEAN PITS, WOC 6 HRS, CUT OFF, WELD ON WELLHEAD, ATTEMPT TO TEST TO 900 PSI; HOURLY: 1/2 HR L/D 8' DC AND BIT; 1 HR RU CASERS; 4 HRS RUN 13 3/8" CSG WITH NO ISSUES. SHOE @ 1475'; 1 HR CIRC 345 BBLs; 1-1/2 HR SAFETY MEETING W/CEMENTERS, RIG UP CEMENT EQPT, TEST LINES TO 2000 PSI; 2 HRS PUMP 249 BBLs LEAD, 68 BBLs TAIL, DISPLACED WITH 213 BBLs WATER. BUMPED PLUG @ 15:45; CIRCULATED 141 SACKS (45 BBLs) TO THE PITS; 6 HRS WOC, CLEAN PITS, CHANGE SHAKER SCREENS, CHANGED BACKYARD OVER TO BRINE; 2 HRS NIPPLE DOWN CONDUCTOR /FLOW LINE, CUT OFF CONDUCTOR AND CASING; 2 HRS SET WELL HEAD & WELD UP. RIG UP CHOKE LINES; 3-1/2 HRS WELD ON HEAD, ATTEMPT TO TEST TO 900 PSI, REWELD 3 TIMES, WAITED FOR HEAD TO COOL OFF EACH TIME; EDWC \$71,869; ETWC \$492,546.
- 02-17-15 (4) FIN WORKING ON HYDRIL 1480' (0'); SUMMARY: FINISH WELDING WELLHEAD, TESTED TO 900 PSI F/30 MIN, NIPPLE UP STACK, TEST BLINDS, CHOKE AND CASING TO 1000 PSI FOR 30 MIN, P/UP BIT AND MOTOR, REPLACE HYDRIL RUBBER; HOURLY: 4 HRS CONTINUE TO REWELD AND TEST WELLHEAD. TESTED HEAD TO 900 PSI FOR 30 MIN.; 8 HRS NIPPLE UP STACK, TEST BLINDS, CHOKE AND CASING TO 1000 PSI FOR 30 MIN.; 1-1/2 HRS P/UP MOTOR, STAB AND MAKE UP BIT. HYDRIL DIDN'T FUNCTION PROPERLY; 10-1/2 HRS RIG DOWN FLOWLINE AND ROT HEAD SPOOL, CHANGE HYDRIL RUBBER; NOTE: HYDRIL WOULDN'T OPEN ALL THE WAY CAMERON HAND CHANGED OUT RUBBER. DOWN TIME BEGAN @ 19:30; EDWC \$67,727; ETWC \$560,273.
- 02-18-15 (5) DRILLING AHEAD AS PLANNED 1960' (480') 50% ANHY, 50% SALT; SUMMARY: REPAIRED AND TESTED HYDRIL, FINISH P/UP BHA, TIH, TAG CEMENT @ 1436', DISPLACE W/10 LB BRINE, TEST RAMS AND HYDRIL TO 1000 PSI, DRILL SHOE TRACK, CEMENT AND FORMATION HOURLY: 4 HRS CHANGE HYDRIL RUBBER, TEST HYDRIL. NIPPLE UP ROTATING HEAD SPOOL AND FLOWLINE; 1-1/4 HRS FINISH P/UP BHA; 1 HR TIH. TAG CEMENT @ 1436'; 1 HR DISPLACE HOLE WITH BRINE; 1 HR TEST HYDRIL AND RAMS TO 1000 PSI; 2-1/4 HRS DRILL FLOAT EQUIPMENT AND CEMENT; 13-1/2 HRS ROT- WOB-20/ RPM-50/ GPM-480/ DIFF-200/ TQ-3-10K/ SPM-120 ; NOTE: CAMERON HAND CHANGED OUT HYDRIL RUBBER DOWN TIME BEGAN @ 10:00 ; EDWC \$35,005; ETWC \$595,278
- 02-19-15 (6) DRILLING AHEAD @ 35'/HR THROUGH 50% ANHYDRITE, 50% DOLOMITE 3200' (1240'); SUMMARY: DRILLED AHEAD AS PLANNED NO ACCIDENTS OR INCIDENTS LAST 24HRS; HOURLY: 8-1/2 HRS ROT-491'; 1/2 HR RIG SERVICE; 15 HRS ROT-569' ; NOTE: CAMERON HAND CHANGED OUT HYDRIL RUBBER DOWN TIME BEGAN @ 10:00; DRILLED 1240' IN 23.5 HRS AVG 52.8'/HR; LITHOLOGY 40% ANHY, 60 % DOL @ 3210'; EDWC \$35,691; ETWC \$630,969.
- 02-20-15 (7) DRILLING AHEAD @ 15'/HR 3960' (760') 10% SH, 20% SS, 30% DOL, 40% ANHY @ 3960'; SUMMARY: DRILLED 760' IN 23.5 HRS AS PLANNED ROP SLOWED AS ANHYDRITE PERCENTAGE INCREASED; HOURLY: 9 HRS ROT-380'; 1/2 HR RIG SERVICE; 14-1/2 HRS ROT-393' WOB-20 RPM-70 DIFF-170 OBPSI-1450 OFBPSI-1230; GPM-480; NOTES: NOTICABLE DIFFERENTIAL PRESSURE DROPS AND REDUCED REACTIVE TQ, RESET MOTOR 2 TIMES AND FINALLY NOTICED DIFFERENTIAL PRESSURE CAME BACK TO NORMAL AFTER 2 HRS DRILLING. NO CHANGE WITH INCREASED WOB; PREP TO DRILL TO TD AT APPROX. 4600'; EDWC \$54,572; ETWC \$685,541.

- 02-21-15 (8) TRIP IN HOLE WITH BHA #3 4252' (292') 100% DOL @ 4258'; SUMMARY: DRILLED 292' IN 18.5 HRS @ 15.8'/HR PULLED BIT AND MOTOR FOR ROP; BIT LOOKED LIKE IT WAS BEGINNING TO CORE OUT / MOTOR SHOWED NO PHYSICAL SIGNS OF FAILURE BUT NEW MOTOR SHOWED QUITE A BIT OF DIFFERENTIAL MORE THAN PREVIOUS MOTOR; HOURLY: 10-1/2 HRS ROT-175'; ROP SUFFERING DUE FORMATION AND STABILIZERS HANGING UP, CAUSING TORQUE ISSUES; ½ HRS RIG SERVICE; 7 HRS DRILLED AHEAD 117"; 4 HRS TOH FOR BIT/MOTOR; ½ HR TEST MOTOR AND TELEDRIFT FOR FUNCTION-PASS; ½ HR TIH W/ NEW BIT AND MOTOR; NOTE: STABS HANGING CAUSING DRILL STRING TORQUE, TRIPPED FOR ROP; EDWC \$35,857; ETWC \$721,397.
- 02-22-15 (9) DRILLING AHEAD AS PLANNED 4720' (468') 100% DOL @ 4670'; SUMMARY: FINISH TIH DRILL AHEAD HOURLY: 2 HRS TIH; 9-1/2 HRS ROT-190" ½ HR SERVICE RIG; 12 HRS ROT- 468' WOB 20K RPM70 GPM495 DIFF 200 OB PSI 1675; OBTQ3-10K DRILLING AHEAD AS PLANNED; NOTE: TOP OF SAN ANDREAS @ 4363'; EDWC \$37,637; ETWC \$759,034.
- 02-23-15 (10) RE- NIPPLE UP BOP TO RUN CASING 4825' (105') 100% DOL @ 4825'; SUMMARY: DRILL TO 4825', RUN FLUID CALIPER (59% WASHOUT), POOH,REMOVE SPOOL TO CUT OUT STUCK WEAR BUSHING, RE INSTALL SPOOL TO RUN CASING; HOURLY: 4-1/2 HR ROT-105'; 2 HRS CIRC 2 SWEEPS/RIG UP 2" TO FLUSH STACK; 3-1/2 HRS POOH FOR 9 5/8" CASING RUN; 2 HRS DRAIN MOTOR,BREAK BIT,L/D BHA; 12 HRS WEAR BUSHING STUCK, REMOVE SPOOL AND CUT OUT BUSHING RE INSTALL SPOOL AND NIPPLE UP TO RUN CASING; NOTE: RRC OPERATOR #4 NOTIFIED; EDWC \$54,271; ETWC \$813,306.
- 02-24-15 (11) SETTING CASING SLIPS 4825' (0') 100% DOL @ 4825'; SUMMARY: FINISH HOOKING UP FLOWLINE,RIG UP AND RUN 9 5/8" CASING,CIRC 1 1/2 TIMES CASING CAPACITY,RIG UP AND PUMP CEMENT; HOURLY: 2 HRS FINISH RIGGING UP FLOWLINE; 1-1/2 HRS RIG UP CASING CREW, SAFETY MEETING; 7 HRS MAKE UP SHOE, 2 FLOAT JTS, RUN 9 5/8" INTERMEDIATE CASING FILLING EVERY 8 JTS; SHOE SET @ 4820'; ¾ HRS RIG UP CEMENT HEAD/RIG DOWN CASERS; 1-3/4 HRS CIRC 1 1/2 TIMES CASING CAPACITY; 4 HRS CEMENT W/1092 SX 575 BBLs, 45 SX TO SURFACE; 5 HRS WAIT ON CMT; 2 HRS NIPPLE DOWN TO SET SLIPS/CUT CASING; NOTE; EDWC \$70,962; ETWC \$884,268.
- 02-25-15 (12) DRILLING AHEAD AS PLANNED 4920' (90') LITHOLOGY 80% DOL, 20% SS @ 4930'; SUMMARY: TEST WITH MONAHANS/ TIH W MOTOR ASSY DRILL CMT & SHOE TRACK DRILL 95' NEW HOLE; HOURLY: 1 HR CUT OFF, SET SLIPS, RIG UP DSA; 5-1/2 HRS P/UP SPACER AND DSA, NIPPLE UP SAME, RIG UP FLOWLINE; 5-1/2 HRS TEST RAMS, HYDRIL, CHOKE, TIW, BACK TO THE PUMPS; 4 HRS INSTALL WEAR BUSHING; TIH STABS W/6" DC, TELEDRIFT, MOTOR & BIT; 2-1/2 HRS TIH TO 4694' TAG CMT; 2-1/2 HRS DRILL OUT SHOE TRACK, FLOAT COLLAR @ 4731, SHOE @ 4825'; 3 HRS DRILL NEW HOLE F/4825-4920'; NOTE: HAD ISSUE WITH WEAR BUSHING BEING INTERNALLY TAPERED HAD TO CHANGE IT OUT PRIOR TO TRIPPING IN THE HOLE; EDWC \$44,210; ETWC \$928,478.
- 02-26-15 (13) DRILLING AHEAD @ 6380' PROGRESS OF 1460' IN 23.5 HRS--62.1'/HR 6,380' (1,460') 100% DOLO @ 6410'; SUMMARY: DRILLED AHEAD AS PLANNED EST. TD @ @ TD WELL AT 6500'; HOURLY: 2-1/4 HRS ROT-160' @ 71'/HR; 1 HR SERVICE RIG,CHECK PUMPS; 20-3/4 HRS ROT-1300'; NOTE: WELL STAYED STRAIGH UNDER .4* EDWC \$65,729; ETWC \$994,206.
- 02-27-15 (14) DRILING AHEAD AS PLANNED 6613' (233') 100% DOLO @ 6600'; SUMMARY: DRILL TO KOP, POOH, L/D VERTICAL BHA,P/UP CURVE BHA,TIH/ROT/SLIDEF-6380'-46'/HR; HOURLY: 2 HRS DRILL-139'; 1-1/2 HRS CIRC 2 SWEEPS, L/D SINGLE; 5 HRS DROP GYRO AND POOH; 3 HRS P/U SINGLE,L/D JARS, GYRO, DCs, STABS, TELEDRIFT, MOTOR, BIT P/UP DIRECTIONAL BHA & TEST; ½ HR TIH; ½ HR RIG SERVICE; 4 HRSW TIH ADDING 21 JTS DP; 4 HRS ROT-64'; 2 HRS SLD-25'; ½ HR ROT-7'; NOTE: HOLDING TOOLFACE WELL; PREP TO DRL AHEAD THRU CURVE; EDWC \$267,720; ETWC \$1,261,926.
- 02-28-15 (15) DRILLING AHEAD BUILDING CURVE @ 47* AVG 18.6'/HR TVD 6989' MD 7050' (437') 60% LIMESTONE, 40% DOLOMITE @ 7040'; SUMMARY: DRILLED AHEAD BUILDING CURVE AS PLANNED; HOURLY: 1 HR SLD-7'; 1 HR ROT-10'; ½ HR RIG SERVICE; 1 HR SLD-18'; ½ HR ROT-15'; 6-1/2 HR SLD-151'; ½ HR ROT-4'; ½ HR SLD-8'; ½ HR ROT-13'; 2 HRS SLD-53'; ½ HR ROT-7'; 5 HRS SLD-83'; ½ HR ROT-11'; 1 HR SLD-25'; 1 HR ROT-5'; 1 HR SLD-10; NOTE: HOLDING TOOLFACE WELL/ ROP IS LOWER THAN EXPECTED; EDWC \$45,330; ETWC \$1,307,257.
- 03-01-15 (16) DRILLING AHEAD AVG 12.7'/HR 290' PROGRESS CURRENTLY @ 70.4*TVD 6989' MD 7340' (196') 20 GN SH, 80 DOLITIC LS @ 7340'; SUMMARY: DRILLED AND SLID AS PLANNED TO 70.4*; HOURLY: 1 HR SLD-15'; ½ HR ROT-7'; 1 HR SLD-20'; ½ HR ROT-9'; ¾ HR SERVICE RIG; 6-1/4 HR SLD-84'; ½ HR TRY TO PUT 2 PUMPS ON HOLE.#2 STILL NOT OPERATIONAL; ½ HR ROT-11'; 5 HRS SLD-58'; 1 HR ROT-7'; 2 HRS SLD-20'; ½ HR ROT-9'; 1-1/2 HR SLD-23'; 1 HR -12'; 2 HRS SLD-15'; NOTE: ROP CUT IN HALF WHEN ONLY RUNNING ONE PUMP.RIG CAN'T KEEP 2 PUMPS RUNNING ADDED 3% DRILLCHEM LUBE TO MUD SYSTEM; EDWC \$73,403; ETWC \$1,380,660.
- 03-02-15 (17) DRILL/SLIDE AHEAD @ 40'/HR TVD 6989' MD 7580' (240'); 70 DOL, 30 SH@ 7580'; SUMMARY: DRILL/ TOH/ CHANE BHA TO LATERAL ASSY/ TIH/ SLD/DRILL; HOURLY: 1 HR ROT-17'; 3-1/2 HRS SLD-32'; ½ HR CHECK #2 PUMP; 4 HRS SLD-56'; ½ HR ROT-8'; 2 HRS SLD- 27' FOR TURN; 1-1/4 HRS CIRC TO POOH F/LAT MOTOR; 1-3/4 HRS POOH F/LAT MOTOR; 2 HRS LAY OUT MOTOR ANDP/U NEW BHA; 3-1/2 HRS TIH W/ NEW BHA AND TOOLS, TEST AGITATOR , MOTOR, MWD TOOL; 1-1/2 HRS SLD-64'; 2-1/2 HRS ROT-68'; EDWC \$43,167; ETWC \$1,423,827.

- 03-03-15 (18) DRILL/SLIDE AS PLANNED 905'/23.5HRS= 39.1'/HR TVD 6989' MD 8500' (920'); 100% DOLO @ 7830'; 100% DOLOMITE, TRACE LIMESTONE @ 8460' SUMMARY: DRILL AND SLIDE AS PLANNED; HOURLY: 3-1/2 HRS ROT AND SLIDE-86'; ½ HR SERVICE RIG; 20 HRS ROT AND SLIDE-905'; NOTE: PERFORMED BOP DRILL, ALL RUNNING WELL; EDWC \$77,867; ETWC \$1,501,694.
- 03-04-15 (19) DRILL/SLIDE THE 8 3/4" LATERAL TVD 6989' MD 9205' (705'); 80% DOLO, 10% SHALE, 10% LIMESTONE @ 8710'; SUMMARY: DRILL/SLIDE. 4 HOUR RIG REPAIR. #2 PUMP DOWN FOR A TOTAL OF 28 HOURS; HOURLY: 2-1/2 HRS DRILL F/ 8521 TO 8614' - 93' @ 37.2'/HR; 1 HR SLIDE F/ 8614 TO 8637' 23' @ 23'/HR; 2 HRS DRILL F/ 8637 TO 8710' 73' @ 37'/HR; 1 HR -RRL 4 HRS RIG REPAIR ON THE AIR SYSTEM; 1 HR SLIDE F/ 8710 TO 8730' 20' @ 20'/HR; 2 HRS DRILL F/ 8730 TO 8805' 75' @ 37.5'/HR; 1-1/2 HRSSLIDE F/ 8805 TO 8825' 20' @ 13.3'/HR; 2 HRS DRILL F/ 8825 TO 8900' 75' @ 37.5'/HR; 1 HR SLIDE F/ 8900 TO 8925' 25' @ 25'/HR; 1-1/2 HRS DRILL F/ 8925 TO 8994' 69' @ 46'/HR (BOTH PUMPS NOW BACK ON HOLE); 1 HR SLIDE F/ 8994 TO 9009' 15' @ 15'/HR; 3-1/2 HRS DRILL F/ 9009 TO 9205' 196' @ 56'/HR; NOTES: RIG REPAIR: CHANGING OUT THE QUICK RELEASE ON THE LOW DRUM. ALSO, #2 PUMP HAS BEEN DOWN 28 HOURS, REDUCING OUR ROP; MUDLOGGER REPORT: 100% DOLOMITE, BACKGROUND GAS IS 47-240. TRACE SHOWS IN DOLOMITE. POOR SHOW FROM 8730 TO 8790 W/ FAIR GAS PEAK AND 10% FLU. NO GOOD SHOWS TO REPORT; EDWC \$48,270; ETWC \$1,549,964.
- 03-05-15 (20) DRILL/SLIDE TD 6989' MD 9,674' (255'); 100 DOL @ 9620'; SUMMARY: DRILL TO 9466' TRIP OUT TO CHANGE BIT & MOTOR. DRILL/SLIDE F/ 9466 TO 9674'; HOURLY: 1-1/2 HR DRILL F/ 9205 TO 9277' 72' @ 48'/HR; 1 HR RS; 3-1/2 HRS DRILL F/ 9277 TO 9466' 189' @ 54'/HR; 2 HRS CIRCULATE SWEEP PRIOR TO TRIP OUT; 5 HRS TRIP OUT OF HOLE; 1-1/2 HRS LAYDOWN BIT & MOTOR & PICK UP NEW BIT & MOTOR. TEST MOTOR & MWD; 4 HRS TRIP IN HOLE; 1-1/2 HRS SLIDE F/ 9466 TO 9491' 25' @ 16.6'/HR; 1-1/2 HRS DRILL F/ 9491 TO 9556' 65' @ 44'/HR; ½ HR SLIDE F/ 9556 TO 9571' 15' @ 30'/HR; 2 HRS DRILL F/ 9571 TO 9674' 103' @ 51.5'/HR; NOTES: TRIP OUT AND BACK IN WENT WELL. HOLE IS IN GOOD CONDITION. MUD LOGGER'S REPORT: 100% DOLOMITE 27-213 BACKGROUND GAS 100 UNITS TRIP GAS; EDWC \$48,654; ETWC \$1,598,619.
- 03-06-15 (21) DRILL/SLIDE 8 3/4" LATERAL TD 6989' MD 10,508' (834'); 100% DOL @ 10,520'; SUMMARY: DRILL/SLIDE 8 3/4" LATERAL; HOURLY: 3-1/2 DRILL F/ 9674 TO 9822' - 148' @ 42.28'/HR; ½ HR SERVICE RIG; 2 HRS DRILL F/ 9822 TO 9911' - 89' @ 44.5'/HR; 1-1/2 HRS SLIDE F/ 9911 TO 9933' - 22' @ 14.66'/HR; 4-1/2 HRS DRILL F/ 9933 TO 10096' - 163' @ 36.22; 2 HRS SLIDE F/ 10096 TO 10119' - 23' @ 11.5'/HR; 6 HRS DRILL F/ 10119 TO 10381' - 262' @ 43.66'/HR; 1-1/2 HRS SLIDE F/ 10381 TO 10405' - 24' @ 16'/HR; 2-1/2 HRS DRILL F/ 10405 TO 10508' - 103' @ 41.2'/HR; NOTES: MUD LOGGERS' REPORT: 100% DOLOMITE 18-441 UNITS BACKGROUND GAS POOR SHOWS # 10290-10350'; EDWC \$45,720; ETWC \$1,644,339.
- 03-07-15 (22) DRILL/SLIDE 8 3/4" LATERAL TD 6989' MD 11,174' (666'); 100% DOL @ 11,120'; SUMMARY: DRILL/SLIDE 8 3/4" LATERAL; HOURLY: 2 HRS DRILL F/ 10508 TO 10571' 63' @ 31.5'/HR; ½ HR SERVICE RIG; 3 HRS SLIDE F/ 10571 TO 10603' 32' @ 10.66'/HR; 1-1/2 HRS DRILL F/ 10603 TO 10666' 63' @ 42'/HR; 3 HRS SLIDE F/ 10666 TO 10698' 32' @ 10.66'/HR; 1-1/2 HRS DRILL F/ 10698 TO 10761' 63' @ 42'/HR; 1-1/2 HRS SLIDE F/ 10761 TO 10777' 16' @ 10.66; 2 HRS DRILL F/ 10777 TO 10856' 79' @ 39.5'/HR; 1 HR SLIDE F/ 10856 TO 10876' 20' @ 20'/HR; 8 HRS DRILL F/ 10876 TO 11174' 298' @ 37.25'/HR; NOTES: MUD LOGGERS' REPORT: 100% DOLOMITE 29-268 UNITS OF BACKGROUND GAS POOR TO FAIR SHOWS FROM 10818-10930. BEST SHOW FROM 10820-10860. 5 1/2" CASING ON LOCATION; EDWC \$70,456; ETWC \$1,714,795.
- 03-08-15 (23) DRILL/SLIDE 8 3/4" LATERAL TD 6989' MD 11,730' (556'); 100% DOL @ 11,710'; SUMMARY: DRILL/SLIDE 8 3/4" LATERAL; HOURLY: 6 HRS DRILL F/ 11174 TO 11333' 159' @ 26.5'/HR; 3 HRS SLIDE F/ 11333 TO 11360' 27' @ 9'/HR; 2 HRS DRILL F/ 11360 TO 11427" 67' @ 33.5'/HR; ½ HR SERVICE RIG; 3 HRS SLIDE F/ 11427 TO 11459' 32' @ 10.66'/HR; 5-1/2 HRS DRILL F/ 11459 TO 11650' 191' @ 34.7'/HR; 1-1/2 HRS DRILL F/ 11650 TO 11713' 63' @ 42'/HR; 1 HR SLIDE F/ 11713 TO 11723' 10' @ 10'/HR; ½ HR DRILL F/ 11723 TO 12 HRS DRILL F/ 11174 TO 11333' 159' @ 26.5'/HR; NOTES: MUD LOGGER'S REPORT: 100% DOLOMITE 33-75 UNITS OF BACKGROUND NO SHOWS TO REPORT DAYLIGHT SAVINGS TIME LOST ONE HOUR; EDWC \$52,413; ETWC \$1,767,208.
- 03-09-15 (24) TRIP OUT OF HOLE FOR BIT, MOTOR & AGGITATOR TD 6989' MD 12,037' (307'); 30% SH,70 LMY DOL @ 12037; SUMMARY: DRILL/SLIDE & TRIP OUT OF HOLE; HOURLY: 8-1/2 HRS DRL 11,730.0 -11,903.0 DRILL 173' @ 20.35'/HR (1 PUMP ONLY); 2-1/2 HRS SLIDE 15' @ 6'/HR (1 PUMP ONLY); 5 HRS DR,G 11,918.0 11,999.0 DRILL 81' @ 16.2'/HR (1 PUMP ONLY); 2-1/2 HRS SLIDE 12" @ 4.8'/HR; 1-1/2 HRS DRILL 26' @ 17.33'/HR; 4 HRS TOH TO REPLACE BIT, MOTOR, AGGITATOR; NOTES MUD LOGGER'S REPORT: 70% LIMEY DOLOMITE, 30% SHALE 37-302 UNITS OF BACKGROUND GAS TIGHT SPOT AT 21 STANDS AND SINGLE (10,032'); PREP TO FINISH TRIP OUT, CHANGE OUT BHA, TRIP IN, DRILL & SLIDE; EDWC \$60,150; ETWC \$1,827,358.
- 03-10-15 (25) DRILL/SLIDE 8 3/4" LATERAL TD 6989' MD 12,253' (216'); 100% LMY DOL @ 12,230'; SUMMARY: FINISH TRIP OUT, CHANGE OUT BHA ,TRIP IN, WASH AND REAM FROM 8711 TO 8786' & F/ 9420-12,037'; HOURLY: 3-1/2

HRS TRIP; 1 HR LD BHA; 1 HR PU NEW BHA; 11 HRS TRIP IN & REAM F/ 8711 TO 8786. WASH/REAM F/ 9420 TO 12037'; 1 HR SLIDE 25' @ 25'/HR; 1-1/2 HRS DRILL 46' @ 30.6'/HR; 1 HR SLIDE 20' @ 20'/HR; 2 HR DRILL 75' @ 37.5'/HR; 1-1/2 HRS SLIDE 32' @ 21.3'/HR; ½ HR DRILL 18' @ 36'/HR; NOTE: MUD LOGGER'S REPORT: 100% LIMEY DOLOMITE 29-46 UNITS OF BACKGROUND GAS NO RECENT SHOWS TIGHT SPOT TRIPPING IN AT 8711-8786. 9420-12,037'; EDWC \$60,752; ETWC \$1,888,110.

- 03-11-15 (26) DRILL/SLIDE 8 3/4" LATERAL TD 6989' MD 13,186' (933'); 100% LMY DOL @ 13,185'; SUMMARY: DRILL/SLIDE 8 3/4" LATERAL; HOURLY: 1 HR DRILL 45' @ 45'/HR; 1-1/2 HRS SLIDE 32' @ 21.3'/HR; 7 HRS DRILL 348' @ 49.7'/HR; ½ HR SERVICE RIG; 4-1/2 HRS DRILL 190' @ 42.2'/HR; 1 HR SLIDE 28' @ 28'/HR; 7 HRS DRILL 258' @ 36.8; 1 HR SLIDE 20' @ 20'/HR; ½ HR DRILL 12' @ 24'/HR; EDWC \$85,896; ETWC \$ 1,974,006.
- 03-12-15 (27) TRIP OUT OF HOLE DUE TO REDUCED DRILL RATE TD 6989' MD 13,437' (251'); 100% DOLOMITE TRACE SHALE @ 13,360'; 90% DOLOMITE, 10% SHALE @ 13,437'; SUMMARY: DRILL/SLIDE 8 3/4" LATERAL. TRIP OUT OF HOLE DUE TO SLOWER DRILLING RATE; HOURLY: 2-1/2 HRS DRILL 63' @ 25.2'/HR; 2-1/2 HRS SLIDE 32' @ 12.8'/HR; 1-1/2 HRS DRILL 68' @ 45.3'/HR; 1 HR SERVICE RIG; 4 HRS DRILL 88' @ 22'/HR; 3 HRS CIRCULATE SWEEPS PRIOR TO TRIP OUT; 2-1/2 HRS TRIP OUT; 2-1/2 HRS CIRCULATE HOLE TO REMOVE TIGHT SPOTS @ 9359'; 4-1/2 HRS TRIP OUT; NOTES: MUD LOGGER'S REPORT: 90% DOLOMITE 10% SHALE 49-65 UNITS BACKGROUND GAS . NO SHOWS TO REPORT; BIT #8 DRILL/SLIDE 1401' IN 43 HOURS @ 32.58'/HR; BIT #9 WILL BE AN ULTERRA 8 BLADE WITH 13MM CUTTERS; PREP TO TRIP IN HOLE. CUT DRILLING LINE; CONTINUE TRIP IN AND DRILL/SLIDE 8 3/4" LATERAL; EDWC \$57,549; ETWC \$2,031,555
- 03-13-15 (28) DRILL/SLIDE 8 3/4" LATERAL TD 6989' MD 13,541' (77'); 80% LMY DOL, 20% SH @13,490'; SUMMARY: FINISH TRIP OUT OF HOLE, CHANGE OUT BIT, TRIP IN HOLE, CUT DRILLING LINE, TRIP IN HOLE TO 8577. REAM FROM 8577 TO 8590'. TRIP IN HOLE TO 11156' WASH/REAM FROM 11156 TO 13437' DRILL/SLIDE 8 3/4" LATERAL; HOURLY: 2 HRS TRIP; ½ HR BREAK OFF BIT, TEST MOTOR, MWD TOOL; PICK UP NEW BIT; 2 HRS TRIPL ½ HR INSTALL ROTATING HEAD & FILL PIPE; 3-1/2 HRS RIG; 2 HRS TRIP; 1 HR WASH & REAM TIGHT SPOT @ 8600'; 1-1/2 HRS TRIPL 1 HR CIRCULATE & WORK TIGHT SPOT @ 11156'; 5-1/2 HRS WASH/REAM F/ 11156 TO 13437'; 1-1/2 HRS SLIDE 21' @ 14'/HR; 2-1/2 HRS DRILLED; NOTES: MUD LOGGER'S REPORT: 80% DOLOMITE 20% GREEN SHALE 63-915 UNITS OF BACKGROUND GAS (MAX GAS WAS INSTRUMENT CHECK) 10 UNITS OF TRIP GAS. NO DRILLING SHOWS; EDWC \$74,546.; ETWC \$2,106,101.
- 03-14-15 (29) DRILL/SLIDE 8 3/4" LATERAL SLIDING AT REPORT TIME,TVD 7139' MD 14,130' (616'); SUMMARY; DRL & SLIDE; HOURLY: 10-1/2 HRS DRILL 401' @ 38.2'/HR; 1 HR SERVICE RIG; 1-1/2 HRS SLIDE 27' @ 18'/HR; 3 HRS DRILL 66' @ 22'/HR; 2 HRS SLIDE 22' @ 11'/HR; 4 HRS DRILL 73' @ 18.25'/HR; 2 HRS SLIDE 27' @ 13.5'/HRS; NOTES: MUD LOGGER'S REPORT: 100% DOLOMITE. 79-470 UNITS OF BACKGROUND GAS (MAX GAS WAS A CARBIDE CHECK). WEAK SHOWS FROM 13580-13680' & 13800-13840'LOST ABOUT 138# PUMP PRESSURE. CARBIDE SHOWED IT WENT TO THE BIT. CONTINUE TO MONITOR THE PRESSURE.EDWC \$47,964; ETWC \$2,154,065.
- 03-15-15 (30) CIRCULATE 15BBL 99VIS SWEEPS TO CLEAN HOLE.TVD 7141' MD 14,450' (320'); SUMMARY: DRILL/SLIDE 8 3/4" LATERAL. BIT QUIT AND TD WAS CALLED AT 14450' CIRCULATE SWEEPS TO CLEAN HOLE; HOURLY: 3 HRS DRILL 68' @ 22.6'/HR; 2-1/2 HRS SLIDE 40' @ 16'/HR; 3-1/2 HRS DRILL 55' @ 15.7'/HR; ½ HR SERVICE RIG; 10-1/2 HR DRILL 157' @ 14.9'/HRS CIRCULATE SWEEPS AT TD OF 14450'; COMMENTS: MUD LOGGER'S REPORT 100% DOLO, 40 – 477 UNITS OF BG GAS; FAIR SHOW OF GAS FROM 12140-14270': EDWC \$56,928; ETWC \$2,210,993.
- 03-16-15 (31) REAMING FROM 7072-7151' TVD 7041' MD 7151' (-7299'); SUMMARY: CIRCULATE HIGH VIS SWEEPS TO CLEAN HOLE. TRIP OUT/LAYDOWN DIRECTIONAL TOOLS. PICK UP 2-BLADE STABILIZERS (30' & 60') TRIP IN HOLE. REAM TIGHT SPOT AT 7078': HOURLY: 4-1/2 HRS PREP TO TOH & LAYDOWN TOOLS; ½ HR TRIP; ½ HR REPLACE TONG CABLE; 9 HRS TRIP 3 HRS LAYDOWN TOOLS, PICK UP STABILIZERS; 3 HRS TRIP IN HOLE TO TIGHT SPOT AT 7078'; 1 HR WORK STUCK PIPE AT 7078'; 2-1/2 HRS REAMING FROM 7072-7151'; COMMENTS STUCK PIPE AT 7078' PULLED 100,000 OVER AND PIPE CAME FREE. SLM OUT IS 14,439 '-- 11 FEET SHORTER: PREP TO REAM THROUGH THE CURVE & LATERAL IF NECESSARY TO BOTTOM. CIRCULATE SWEEPS AROUND TO CLEAN AND CONDITION HOLE FOR LOGS. TRIP OUT, LAYDOWN STABILIZERS AND PICK UP THRU BIT LOGGING TOOLS: EDWC \$68,292; ETWC \$2,279,285

- 03-17-15 (32) REAMING AT 13156 TO TD OF 14450' TVD 7145' MD 13,156' (6005'); SUMMARY: REAMING 8 3/4" LATERAL FROM 7151' TO 13156' (6005') STUCK AT 10030 & 10189'; HOURLY: 2-1/5 HRS REAM F/ 7151-7405'; 1-1/2 HRS REAM F/ 7405-10030'; 1-1/2 HRS REAM TIGHT SPOT 10030-10189'; 1-1/2 HRS WORK STUCK PIPE; 1 HR REAM TIGHT SPOT 10030-10189'; 1 HR RS; 3 HRS REAM F/ 10189-11140'; 1 HR REAM F/ 11140-11241'; 1 HR REPAIR LOW DRUM CLUTCH; 10 HRS REAM F/ 11241-13156'; NOTE: 22 HOURS ON REAMING 6005' OF LATERAL; PREP TO COMPLETE REAMING TO TD. CIRCULATE HOLE CLEAN. TRIP OUT FOR LOGS. PICK UP ThruBit LOGGING TOOLS; EDWC \$40,531; ETWC \$2,319,816.
- 03-18-15 (33) TIH W/THRU BIT ASSY TVD 7141' MD 14,450' (1294'); SUMMARY: REAM,CIRC,POOH F/THRU BIT ASSY, TIH; HOURLY: 6 HRS WASH AND REAM,CIRC BOTTOMS UP; 2 HRS REPAIR DUMP VALVE ON DW; 4 HRS WASH/REAM CIRC CLEAN UP CYCLE COULDN'T GET PAST 14,045'; 8 HRS POOH W/TIGHT SPOTS @ 13,310' 9300' 7450' 7072' 6950'; 1 HR L/D REAMERS P/UP THRU BIT ASSY; 3 HRS RABBIT PIPE WHILE TIH; NOTE: UNABLE TO GET DEEPER THAN 14,045' W/ STABS ASSY; PREP TO RUN THRU BIT LOGS; EDWC \$61,106; ETWC \$2,380,922.
- 03-19-15 (34) LDDP TVD 7141' MD 14,450' (0'); SUMMARY: TIH,WASH TO BOTTOM,CIRC,PUMP NUT PLUG PILL,POOH,L/D HWDP,POOH TO SHOE,LDDP; HOURLY 7 HRS TIH; ½ HR BRK CIRC; 1-1/2 HRS TIH; 3-1/2HRS WASH AND REAM TO TDL 3-3/4 HRS SWEEP HOLE,PUMP FLUID CALIPER,SPOT LCM PILL; 2-1/2 HRS POH; 1-1/2 HRS LD HWDP; 2 HRS POOH TO SHOE; 1-3/4 HRS LD DP; NOTE: FLUID CALIPER SHOWED 22% WASHOUT W/ 4215 CU.FT ANNULAR VOLUME TIGHT SPOTS COMING OUT OF HOLE @ 7170', 8530', 11000', 11200', 13565'; EDWC \$62,460; ETWC \$2, 443,382
- 03-20-15 (35) CEMENT 5 1/2" CASING TVD 7141' MD 14,450' (0'); SUMMARY: FINISH LDDP,FLOAT 5 1/2" CASING,CIRC WAIT FOR WATER; HOURLY: 3 HRS L/D DP & BHA; 1-1/2 HRS R/UP CASERS; 14-1/2 HRS FLOAT 5 1/2" CASING,SET SHOE @ 14,443'; 2 HRS RUPTURE FLOATATION DISK AND CIRC 2 CASING CAPACITY,RIG DOWN CASERS; ½ HR R/UP CEMENTERS,L/D CRT TOOL; 2-1/2 HRS CIRC, WAIT FOR WATER; NOTE: CASING SHOE @ 14,443'; TX RRC OPERATOR #2 NOTIFIED; EDWC \$47,470; ETWC \$2,490,851.
- 03-21-15 (36) LD DP TVD 7141' MD 14,450' (0'); SUMMARY: CEMENT 5 1/2" CASING,SET SLIPS,NIPPLE DOWN,LDDP HOURLY: 1-1/2 HRS CIRC,WAIT FOR CEMENT WATER; 1 HR FINISH RIGGING UP,PRESSURE TEST LINES; 4-1/2 HRS CEMENT 5 1/2" CASING; 5 HRS NIPPLE DOWN STACK, INSTALL WELLHEAD; 12 HRS LDDP IN MOUSE HOLE,CLEAN PITS; NOTE: SET SLIPS WITH 100K; EDWC \$192,982.; ETWC \$2,683,834.
- 03-22-15 (37) LD DP TVD 7141' MD 14,450' (0'); RD; RIG RELEASED.

- 04-13-15 PRESENT OPERATION: PREP FOR WASHOUT RUN; PREP TO MIRU FRAC STACK FOR WASHOUT RUN; EDWC \$1400.
- 04-14-15 PRESENT OPERATION: RU CT & GIH; MI KLX TORQUE CREW. NU SUNBELT 7-1/16 10K MASTER VALVES & 7-1/16 X 2-1/16 X 10K FLOW CROSS. MIRU GLADIATOR FLOWBACK 2" MANIFOLD & LTR FRAC TANK. FILL FRAC TANK W/ FW WATER FROM FRAC PIT. SDFN; NOTE: TOOK DELIVERY OF LTR MANLIFT, FORKLIFT, 2 PORTA JOHNS & 2 LIGHT PLANTS; EDWC \$6085; ETCC \$7485.
- 04-15-15 PRESENT OPERATION: WO SCHLUMBERGER WL; SAFTEY MEETING; MIRU GLADIATOR 2" CTU. MU TTS BHA & RIH AS FOLLOWS: 4.50" OD 5-BLADE JUNK MILL, 4.50" OD STRING MILL, 2.88" OD TITAN SUPERMAX MOTOR, 2.88" OD XRV AGITATOR, 2.88" OD HYDRAULIC DISCONNECT, 2.88" OD JAR & CC/BPV (PULL TESTED TO 25K). FUNCTION TEST MOTOR 2.5 BPM AT 2,700 PSI. PRESSURE TEST STACK & FLOWBACK TO 8,500 PSI. OW W/ 0 PSI. RIH ROLLING PUMP OVER 0.5 BPM IN/OUT TO 6,600'. WT CK 25K INCREASE RATE TO 3 BPM @ 4,000 PSI & START 10 BBL 90 VISC SWEEPS 15 MIN. CONTINUE RIH TO 8,050' & ST TO 6,650'. CUT SWEEPS & CONTINUE TO RIH TO ORIO VALVE @ 14,315' CTM (ACTUAL DEPTH 14,306') SENT 20 BBL SWEEP & POOH. BREAKDOWN BHA & RDMO CTU, LA CHEMICAL & FLOWBACK; EDWC \$61,863; ETCC \$69,348.
- 04-16-15 PRESENT OPERATION: RU SCHLUMBERGER WL & GIH W/ TRACTOR & LOGGING TOOLS. HAUL OFF WATER FROM FRAC TANK; EDWC \$ \$3,520; ETCC \$72,868.
- 04-17-15 PRESENT OPERATION: BD BHA & RDMO SLB WL. MIRU SCHLUMBERGER WL & CRANE. MU 3-5/8"OD SONIC SCANNER W/ 4.50"OD CENTRALIZERS, 3-3/8"OD DEVIATION TOOL, 3-3/8"OD NEUTRON, 3-3/4"OD GAMMA RAY, 3-3/8"OD TELEMETRY CARTRIDGE, 3-3/8"OD CCL, (2) 3-1/8"OD XTRA-C TRACTORS, 3-1/8"OD SWIVEL & 2.32" OD WL HEAD. 130.38' TOTAL BHA. PERFORM SURFACE TEST OF MOTOR, TEST OK. GIH PERFORMING DOWN LOG TO 7,300', TEST OK. CORRELATED DEPTH TO OPEN HOLE LOG @ 7,050'. PERFORMED UP LOG, 6,800' - 6,600' TEST OK. CONTINUE GIH TO 7,300' & SWITCH TO TRACTOR MODE. TRACTOR DOWN TO 14,311'. RU PINION PMP TRUCK & PRESSURE UP CSG TO 1,200 PSI. POOH LOGGING TO 4,000', EST TOC @ 4,550' CONTINUE W/ GAMMA TO SURFACE. RDMO SLB WL & CRANE. NOTE: MARKER JT. (6,478'); EDWC \$164,592; ETCC \$237,460.
- 04-18-15 PRESENT OPERATION: WO ORDERS. RELEASE LTR RENTALS MANLIFT, LIGHT PLANTS & FRAC TANK.; EDWC \$2310; ETCC \$239,770.
- 04-19-15 thru
05-09-15 WO FRAC.
- 05-10-15 WO ORDERS; MEET C&J ON LOCATION TO DISCUSS RU. START MIRU FRAC TANKS; EDWC \$1,650; ETWC \$242,420.
- 05-11-15 thru
05-17-15 PRESENT OPERATION: CONTINUE MIRU FRAC; MIRU CASED HOLE SOLUTIONS. PRESSURE TEST LINES, STACK & FLOWBACK EQUIP TO 9,600 PSI, OK. BLED PRESSURE TO 0 PSI, OW W/ 0 PSI. BRING PRODUCTION CSG UP TO 8,000 PSI, OK. TIE ONTO SURFACE CSG, PRESSURE UP TO 1,000 PSI, OK. BRING PRODUCTION CSG UP TO 8,500 PSI & HOLD FOR 15 MIN, OK. CONTINUE TO INCREASE PRODUCTION CSG TO 8,700 PSI, HELD FOR 5 MIN. CONTINUE TO 8,900 PSI, HELD FOR 5 MIN. CONTINUE PRESSURE UP & ORIO OPENED @ 9,050 PSI, PRESSURE DROPPED TO 4,000 PSI. INCREASE RATE TO 2 BPM @ 4,500 PSI, 6 BPM @ 7,000 PSI 8 BPM @ 8,000 PSI, 10 BPM @ 8,800 PSI. PUMPED TOTAL OF 175 BBLS TREATED FW, LOWERED RATE TO 4 BPM & PUMPED 500 GALS 15% NEFE DOUBLE INHIBITED ACID. INCREASE RATE TO 7 BPM @ 9,000 PSI. PRESSURE BROKE TO 7,500 PSI WHEN ACID HIT. PUMPED ADDITIONAL 300 BBLS AT 16 BPM W/ ENDING PSI OF 6,200. SWI W/ 2,200 PSI. MIRU API WL. MU (3) 3' X 3-1/8" GUNS, LOADED 5 SPF (45 HOLES TOTAL) 60 DEGREE PHASING, .42" EHD, 44.19" PEN & 21 GR WT, TITAN CHARGES. PRESSURE TEST LUBRICATOR TO 8,500 PSI, OK. BLED DOWN TO 2,600 PSI OW W/ 2,100 PSI. GIH & TIE INTO ST JT @ 6,478' WLM. CONTINUE GIH TO 14,260' WLM & PERFORATE STG AS FOLLOWS. STG #1 GIH W/ (3) 3' X 3-1/8" HSC LOADED W/5 SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42", 44.19" PEN) PERF @ 14,242' - 45', 14,155' - 58', 14,058' - 61'. POOH. RD API WL. SWI W/ 2,200 PSI. RU CHS & BREAKDOWN PERFS, 2 BPM @ 3,300 PSI, 4 BPM @ 4,000 PSI, 6 BPM @ 4,500 PSI, 8 BPM @ 5,000 PSI & 10 BPM @ 5,300 PSI ISIP- 3,800 PSI, 5 MIN 3,000 PSI & 15 MIN 2,500 PSI. SECURE WELL SDON; EDWC \$17,006; ETWC \$259,776.
- 05-18-15 PRESENT OPERATION: PREP TO FRAC STG 1; CONTINUE MIRU C&J FRAC, PRIME & TEST LINES; EDWC \$5,445; ETWC \$265,221.

05-19-15

PRESENT OPERATION: WL STG 4 STG #1 FRAC, SICP 661 PSI, STARTED @ 15BPM, BD @ 4,500 PSI, PUMP 8,000 GALS 15% HCL ACID, SAND FRAC W/ 174,888 GALS SLICK 14,994 GALS LINEAR GEL, 142,170 GALS XL/GEL TO PUMP, 35,029 F/0.25-1.0# 100 MESH, 98,960 F/0.25-2.0# 40/70 WHITE, 30,940 F/2.0# GARNETT RC. ISIP 5,323. FG 1.18, 15 MIN 4,265 PSI. AIR 88, MIR 92, AIP 7,804 PSI, MIP 8,875 PSI, LTR 8,511. RD C&J FRAC, RU API WL.

STG #2 GIH W(3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 13,991'. PERF @ 13,968' - 71', 13,879' - 82', 13,803' - 06'. POOH. RD API WL, RU C&J FRAC.

STG #2 FRAC, SICP 2,464 PSI, STARTED @ 15BPM, BD @ 4,850 PSI, PUMP 8,000 GALS 15% HCL ACID, SAND FRAC W/ 238,560 GALS SLICK 23,940 GALS LINEAR GEL, 144,732 GALS XL/GEL TO PUMP, 35,095 F/0.25-1.0# 100 MESH, 96,340 F/0.25-2.0# 40/70 WHITE, 31,660 F/2.0# GARNETT RC. ISIP 5,640. FG 1.22, 15 MIN 5,196 PSI. AIR 81, MIR 87, AIP 7,876 PSI, MIP 8,378 PSI, LTR 9,891. RD C&J FRAC, RU API WL.; NOTE: SD AFTER .50# MESH, WATER TRANSFER LOST PUMP, RESUMED STG & SD AGAIN ON .50# MESH, WATER TRANSFER LOST MAIN PUMP. RESUMED STG, SD AGAIN ON 2ND .50# MESH, C&J NOT READING GEL PUMP, FIXED ISSUES COMPLETED STAGE PER DESIGN. DT-8 HRS TOTAL

STG #3 GIH W(3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 13,557'. PERF @ 13,727' - 30', 13,660' - 63', 13,602' - 05'. POOH. RD API WL, RU C&J FRAC.

STG #3 FRAC, SICP 3,596 PSI, STARTED @ 15BPM, BD @ 5,458 PSI, PUMP 8,000 GALS 15% HCL ACID, SAND FRAC W/ 160,356 GALS SLICK 22,050 GALS LINEAR GEL, 138,096 GALS XL/GEL TO PUMP, 36,000 F/0.25-1.0# 100 MESH, 95,660 F/0.25-2.0# 40/70 WHITE, 30,000 F/2.0# GARNETT RC. ISIP 5,697. FG 1.23, 15 MIN 5,252 PSI. AIR 83, MIR 87, AIP 8,102 PSI, MIP 8,621 PSI, LTR 7,819. RD C&J FRAC, RU API WL; EDWC \$272,910; ETWC \$538,131.

05-20-15

PRESENT OPERATION: FRAC STG 7

STG #4 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 13,557'. PERF @ 13,534' - 37', 13,471' - 74', 13,400' - 03'. POOH. RD API WL, RU C&J FRAC

STG #4 FRAC, SICP 3,733 PSI, STARTED @ 15BPM, BD @ 5,446 PSI, PUMP 8,000 GALS 15% HCL ACID, SAND FRAC W/ 150,696 GALS SLICK 15,414 GALS LINEAR GEL, 138,052 GALS XL/GEL TO PUMP, 35,005 F/0.25-1.0# 100 MESH, 97,240 F/0.25-2.0# 40/70 WHITE, 30,520 F/2.0# GARNETT RC. ISIP 6,014. FG 1.27, 15 MIN 5,444 PSI. AIR 89, MIR 90, AIP 8,378 PSI, MIP 9,019 PSI, LTR 7,836. RD C&J FRAC, RU API WL.

STG #5 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 13,350'. PERF @ 13,327' - 30', 13,254' - 57', 13,185' - 88'. POOH. RD API WL, RU C&J FRAC

STG #5 FRAC, SICP 4,235 PSI, STARTED @ 15BPM, BD @ 5,458 PSI, PUMP 8,000 GALS 15% HCL ACID, SAND FRAC W/ 147,672 GALS SLICK 15,624 GALS LINEAR GEL, 142,758 GALS XL/GEL TO PUMP, 35,167 F/0.25-1.0# 100 MESH, 96,760 F/0.25-2.0# 40/70 WHITE, 30,740 F/2.0# GARNETT RC. ISIP 5,903. FG 1.26, 15 MIN 5,279 PSI. AIR 90, MIR 91, AIP 8,420 PSI, MIP 9,228 PSI, LTR 7,873. RD C&J FRAC, RU API WL.

STG #6 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 13,115'. PERF @ 13,092' - 95', 13,013' - 16', 12,917' - 20'. POOH. RD API WL, RU C&J FRAC

STG #6 FRAC, SICP 3,672 PSI, STARTED @ 15BPM, BD @ 5,082 PSI, PUMP 8,000 GALS 15% HCL ACID, SAND FRAC W/ 183,624 GALS SLICK 15,162 GALS LINEAR GEL, 139,608 GALS XL/GEL TO PUMP, 35,038 F/0.25-1.0# 100 MESH, 97,620 F/0.25-2.0# 40/70 WHITE, 31,000 F/2.0# GARNETT RC. ISIP 5,604. FG 1.21, 15 MIN 5,077 PSI. AIR 89, MIR 90, AIP 8,102 PSI, MIP 8,518 PSI, LTR 7,881. RD C&J FRAC, RU API WL. NOTE: SD 4HRS BEFORE STG 6 DUE TO WASHED OUT Y ON MISSILE.

STG #7 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 12,834'. PERF @ 12,811' - 14', 12,710' - 13', 12,608' - 11'. POOH. RD API WL, RU C&J FRAC; EDWC \$277,310; ETWC \$815,441.

05-21-15

PRESENT OPERATION: WL STG 12

STG #7 FRAC, SICP 3,928 PSI, STARTED @ 15BPM, BD @ 5,712 PSI, PUMP 8,000 GALS 15% HCL ACID, SAND FRAC W/ 174,636 GALS SLICK 35,406 GALS LINEAR GEL, 147,798 GALS XL/GEL TO PUMP, 35,000 F/0.25-1.0# 100 MESH, 97,220 F/0.25-2.0# 40/70 WHITE, 30,940 F/2.0# GARNETT RC. ISIP 5,356. FG 1.18, 15 MIN 4,557 PSI. AIR 90, MIR 92, AIP 7,998 PSI, MIP 8,525 PSI, LTR 8,713. RD C&J FRAC, RU API WL.

STG #8 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 12,548'. PERF @ 12,525' - 28', 12,456' - 59', 12,381' - 84'. POOH. RD API WL, RU C&J FRAC

STG #8 FRAC, SICP 3,337 PSI, STARTED @ 15BPM, BD @ 5,049 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 149,310 GALS SLICK 17,262 GALS LINEAR GEL, 145,026 GALS XL/GEL TO PUMP, 35,018 F/0.25-1.0# 100 MESH, 97,620 F/0.25-2.0# 40/70 WHITE, 31,100 F/2.0# GARNETT RC. ISIP 5,482. FG 1.20, 15 MIN 4,916 PSI. AIR 89, MIR 90, AIP 8,113 PSI, MIP 8,946 PSI, LTR 7,515. RD C&J FRAC, RU API WL.

STG #9 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 12,343'. PERF @ 12,320' - 23', 12,269' - 72', 12,206' - 09'. POOH. RD API WL, RU C&J FRAC.

STG #9 FRAC, SICP 3,451 PSI, STARTED @ 15BPM, BD @ 5,991 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 146,622 GALS SLICK 15,867 GALS LINEAR GEL, 136,206 GALS XL/GEL TO PUMP, 35,106 F/0.25-1.0# 100 MESH, 97,520 F/0.25-2.0# 40/70 WHITE, 29,000 F/2.0# GARNETT RC. ISIP 5,811. FG 1.25, 15 MIN 5,088 PSI. AIR 88, MIR 92, AIP 8,413 PSI, MIP 8,965 PSI, LTR 7,204. RD C&J FRAC, RU API WL

STG #10 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 12,159'. PERF @ 12,136' - 39', 12,036' - 39', 11,960' - 63'. POOH. RD API WL, RU C&J FRAC

STG #10 FRAC, SICP 3,532 PSI, STARTED @ 15BPM, BD @ 5,723 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 149,814 GALS SLICK 16,800 GALS LINEAR GEL, 144,858 GALS XL/GEL TO PUMP, 35,216 F/0.25-1.0# 100 MESH, 97,520 F/0.25-2.0# 40/70 WHITE, 31,380 F/2.0# GARNETT RC.

ISIP 6,735. FG 1.38, 15 MIN 5,546 PSI. AIR 87, MIR 88, AIP 8,695 PSI, MIP 9,106 PSI, LTR 7,512. RD C&J FRAC, RU API WL.

STG #11 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 11,884'. PERF @ 11,861' - 64', 11,775' - 78', 11,693' - 96'. POOH. RD API WL, RU C&J FRAC

STG #11 FRAC, SICP 3,840 PSI, STARTED @ 15BPM, BD @ 6,133 PSI, PUMP 6,000 GALS 15% HCL ACID, SAND FRAC W/ 146,832 GALS SLICK 11,760 GALS LINEAR GEL, 141,204 GALS XL/GEL TO PUMP, 35,076 F/0.25-1.0# 100 MESH, 98,000 F/0.25-2.0# 40/70 WHITE, 30,560 F/2.0# GARNETT RC. ISIP 6,295. FG 1.31, 15 MIN 5,132 PSI. AIR 89, MIR 91, AIP 8,342 PSI, MIP 8,609 PSI, LTR 7,285. RD C&J FRAC, RU API WL; EDWC \$431,310; ETWC \$1,246,751.

05-22-15

STG #12 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 11,630'. PERF @ 11,607' - 10', 11,508' - 11', 11,435' - 38'. POOH. RD API WL, RU C&J FRAC.

STG #12 FRAC, SICP 3,216 PSI, STARTED @ 15BPM, BD @ 6,358 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 128,688 GALS SLICK 15,876 GALS LINEAR GEL, 140,490 GALS XL/GEL TO PUMP, 36,000 F/0.25-1.0# 100 MESH, 98,660 F/0.25-2.0# 40/70 WHITE, 30,000 F/2.0# GARNETT RC. ISIP 5,855. FG 1.25, 15 MIN 5,462 PSI. AIR 89, MIR 91, AIP 8,021 PSI, MIP 9,005 PSI, LTR 7,261. RD C&J FRAC, RU API WL.

STG #13 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 11,390'. PERF @ 11,367' - 70', 11,302' - 05', 11,235' - 38'. POOH. RD API WL, RU C&J FRAC.

STG #13 FRAC, SICP 3,514 PSI, STARTED @ 15BPM, BD @ 7,054 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 126,840 GALS SLICK 15,078 GALS LINEAR GEL, 139,692 GALS XL/GEL TO PUMP, 35,170 F/0.25-1.0# 100 MESH, 96,740 F/0.25-2.0# 40/70 WHITE, 31,260 F/2.0# GARNETT RC. ISIP 6,540. FG 1.35, 15 MIN 5,527 PSI. AIR 90, MIR 93, AIP 8,465 PSI, MIP 8,743 PSI, LTR 7,149. RD C&J FRAC, RU API WL.

STG #14 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 11,204'. PERF @ 11,181' - 84', 11,126' - 29', 11,070' - 73'. POOH. RD API WL, RU C&J FRAC.

STG #14 FRAC, SICP 3,900 PSI, STARTED @ 15BPM, BD @ 7,395 PSI, PUMP 6,000 GALS 15% HCL ACID, SAND FRAC W/ 143,892 GALS SLICK 16,842 GALS LINEAR GEL, 141,918 GALS XL/GEL TO PUMP, 36,015 F/0.25-1.0# 100 MESH, 96,280 F/0.25-2.0# 40/70 WHITE, 30,860 F/2.0# GARNETT RC. ISIP 6,734. FG 1.38, 15 MIN 5,816 PSI. AIR 90, MIR 92, AIP 8,741 PSI, MIP 8,995 PSI, LTR 7,706. RD C&J FRAC, RU API WL.

STG #15 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 11,035'. PERF @ 11,012' - 15', 10,937' - 40', 10,855' - 58'. POOH. RD API WL, RU C&J FRAC.

STG #15 FRAC, SICP 4,090 PSI, STARTED @ 15BPM, BD @ 5,868 PSI, PUMP 6,000 GALS 15% HCL ACID, SAND FRAC W/ 144,522 GALS SLICK 9,786 GALS LINEAR GEL, 135,912 GALS XL/GEL TO PUMP, 35,067 F/0.25-1.0# 100 MESH, 97,360 F/0.25-2.0# 40/70 WHITE, 31,000 F/2.0# GARNETT RC. ISIP 6,148. FG 1.29, 15 MIN 4,978 PSI. AIR 88, MIR 90, AIP 8,301 PSI, MIP 8,863 PSI, LTR 7,060. RD C&J FRAC, RU API WL.

STG #16 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 10,797'. PERF @ 10,774' - 77', 10,712' - 15', 10,632' - 35'. POOH. RD API WL, RU C&J FRAC.

STG #16 FRAC, SICP 3,457 PSI, STARTED @ 15BPM, BD @ 6,808 PSI, PUMP 6,000 GALS 15% HCL ACID, SAND FRAC W/ 133,644 GALS SLICK 10,038 GALS LINEAR GEL, 135,030 GALS XL/GEL TO PUMP, 35,000 F/0.25-1.0# 100 MESH, 97,720 F/0.25-2.0# 40/70 WHITE, 30,740 F/2.0# GARNETT RC. ISIP 5,755. FG 1.24, 15 MIN 4,937 PSI. AIR 88, MIR 90, AIP 7,891 PSI, MIP 8,423 PSI, LTR 6,785. RD C&J FRAC, RU API WL.

STG #17 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 10,591'. PERF @ 10,568' - 71', 10,487' - 90', 10,425' - 28'. POOH. RD API WL, RU C&J FRAC; EDWC \$451,110; ETWC \$1,697,861.

05-23-15

PRESENT OPERATION: WL STG 22

STG #17 FRAC, SICP 3,438 PSI, STARTED @ 15BPM, BD @ 7,130 PSI, PUMP 46000 GALS 15% HCL ACID, SAND FRAC W/ 129,066 GALS SLICK 12,684 GALS LINEAR GEL, 141,414 GALS XL/GEL TO PUMP, 36,077 F/0.25-1.0# 100 MESH, 96,880 F/0.25-2.0# 40/70 WHITE, 31,520 F/2.0# GARNETT RC. ISIP 6,043. FG 1.34, 15 MIN 5,437 PSI. AIR 90, MIR 91, AIP 8,251 PSI, MIP 8,837 PSI, LTR 7,229. RD C&J FRAC, RU API WL.

STG #18 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 10,373'. PERF @ 10,350' - 53', 10,258' - 61', 10,179' - 82'. POOH. RD API WL, RU C&J FRAC.

STG #18 FRAC, SICP 3,675 PSI, STARTED @ 15BPM, BD @ 6,545 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 133,434 GALS SLICK 16,170 GALS LINEAR GEL, 146,748 GALS XL/GEL TO PUMP, 36,099 F/0.25-1.0# 100 MESH, 97,820 F/0.25-2.0# 40/70 WHITE, 33,000 F/2.0# GARNETT RC. ISIP 6,106. FG 1.29, 15 MIN 5,276 PSI. AIR 90, MIR 94, AIP 8,120 PSI, MIP 8,921 PSI, LTR 7,477. RD C&J FRAC, RU API WL

STG #19 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 10,118'. PERF @ 10,095' - 98', 10,025' - 28', 9,955' - 58'. POOH. RD API WL, RU C&J FRAC.

STG #19 FRAC, SICP 3,833 PSI, STARTED @ 15BPM, BD @ 7,120 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 123,606 GALS SLICK 11,886 GALS LINEAR GEL, 139,860 GALS XL/GEL TO PUMP, 35,031 F/0.25-1.0# 100 MESH, 96,740 F/0.25-2.0# 40/70 WHITE, 31,220 F/2.0# GARNETT RC. ISIP 6,293. FG 1.32, 15 MIN 6,293 PSI. AIR 90, MIR 92, AIP 8,372 PSI, MIP 9,036 PSI, LTR 6,975. RD C&J FRAC, RU API WL.

STG #20 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 9,899'. PERF @ 9,876' - 79', 9,806' - 09', 9,735' - 39'. POOH. RD API WL, RU C&J FRAC.

STG #20 FRAC, SICP 3,824 PSI, STARTED @ 15BPM, BD @ 7,442 PSI, PUMP 4,100 GALS 15% HCL ACID, SAND FRAC W/ 144,648 GALS SLICK 15,246 GALS LINEAR GEL, 140,784 GALS XL/GEL TO PUMP, 35,090L F/0.25-1.0# 100 MESH, 98,560 F/0.25-2.0# 40/70 WHITE, 30,520 F/2.0# GARNETT RC. ISIP 5,738. FG 1.24, 15 MIN 4,697 PSI. AIR 89, MIR 91, AIP 8,114 PSI, MIP 8,442 PSI, LTR 7,263. RD C&J FRAC, RU API WL.

STG #21 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 9,684'. PERF @ 9,661' - 64', 9,604' - 07', 9,549' - 52'. POOH. RD API WL, RU C&J FRAC.

STG #21 FRAC, SICP 3,400 PSI, STARTED @ 15BPM, BD @ 5,595 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 141,078 GALS SLICK 12,222 GALS LINEAR GEL, 140,742 GALS XL/GEL TO PUMP, 35,000 F/0.25-1.0# 100 MESH, 97,620 F/0.25-2.0# 40/70 WHITE, 32,000 F/2.0# GARNETT RC. ISIP 5,921. FG 1.26, 15 MIN 5,921 PSI. AIR 90, MIR 91, AIP 7,848 PSI, MIP 8,252 PSI, LTR 7,101. RD C&J FRAC, RU API WL; EDWC

05-24-15

PRESENT OPERATION: FRAC STG 26

STG #22 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 9,473'. PERF @ 9,450' - 53', 9,354' - 57', 9,260' - 63'. POOH. RD API WL, RU C&J FRAC. NOTE: PLUG DID NOT FIRE, POOH DISCOVERED FAULTY CHARGE, SENT 50 BBL GEL PILL & FLUSH. GIH SET & FIRE PER DESIGN.

STG #22 FRAC, SICP 3,528 PSI, STARTED @ 15BPM, BD @ 7,220 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 135,282 GALS SLICK 12,432 GALS LINEAR GEL, 143,892 GALS XL/GEL TO PUMP, 35,106 F/0.25-1.0# 100 MESH, 96,640 F/0.25-2.0# 40/70 WHITE, 30,500 F/2.0# GARNETT RC. ISIP 5,880. FG 1.26, 15 MIN 5,081 PSI. AIR 89, MIR 92, AIP 7,640 PSI, MIP 8,271 PSI, LTR 7,348. RD C&J FRAC, RU API WL.

STG #23 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 9,207'. PERF @ 9,184' - 87', 9,098' - 01', 9,010' - 13'. POOH. RD API WL, RU C&J FRAC

STG #23 FRAC, SICP 3,763 PSI, STARTED @ 15BPM, BD @ 5,586 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 128,100 GALS SLICK 15,667 GALS LINEAR GEL, 144,144 GALS XL/GEL TO PUMP, 35,194 F/0.25-1.0# 100 MESH, 97,860 F/0.25-2.0# 40/70 WHITE, 30,540 F/2.0# GARNETT RC. ISIP 5,800. FG 1.25, 15 MIN 5,187 PSI. AIR 88, MIR 92, AIP 7,488 PSI, MIP 8,501 PSI, LTR 7,264. RD C&J FRAC, RU API WL.

STG #24 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 8,937'. PERF @ 8,914' - 17', 8,816' - 19', 8,699' - 02'. POOH. RD API WL, RU C&J FRAC

STG #24 FRAC, SICP 3,494 PSI, STARTED @ 15BPM, BD @ 6,784 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 140,784 GALS SLICK 12,726 GALS LINEAR GEL, 140,322 GALS XL/GEL TO PUMP, 35,544 F/0.25-1.0# 100 MESH, 98,000 F/0.25-2.0# 40/70 WHITE, 31,100 F/2.0# GARNETT RC. ISIP 5,533. FG 1.20, 15 MIN 4,779 PSI. AIR 89, MIR 91, AIP 7,410 PSI, MIP 8,716 PSI, LTR 7,094. RD C&J FRAC, RU API WL.

STG #25 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 8,611'. PERF @ 8,588' - 91', 8,471' - 74', 8,389' - 92'. POOH. RD API WL, RU C&J FRAC

STG #25 FRAC, SICP 3,105 PSI, STARTED @ 15BPM, BD @ 6,495 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 122,304 GALS SLICK 7,476 GALS LINEAR GEL, 130,788 GALS XL/GEL TO PUMP, 38,500 F/0.25-1.0# 100 MESH, 98,280 F/0.25-2.0# 40/70 WHITE, 29,940 F/2.0# GARNETT RC. ISIP 5,865. FG 1.25, 15 MIN 5,136 PSI. AIR 89, MIR 90, AIP 7,941 PSI, MIP 8,210 PSI, LTR 6,308. RD C&J FRAC, RU API WL. NOTE: DOWN 2.5 HRS PRIOR TO STAGE CHANGING OUT WATER TRANSFER PUMPS.

STG #26 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 8,344'. PERF @ 8,321' - 24', 8,243' - 46', 8,178' - 81'. POOH. RD API WL, RU C&J FRAC; EDWC \$369,710; ETWC \$2,509,881.

05-25-15

PRESENT OPERATION: MIRU RED ZONE CTU

STG #26 FRAC, SICP 3,450 PSI, STARTED @ 15BPM, BD @ 6,774 PSI, PUMP 4,000 GALS 15% HCL ACID, SAND FRAC W/ 124,950 GALS SLICK 10,584 GALS LINEAR GEL, 132,552 GALS XL/GEL TO PUMP, 36,662 F/0.25-1.0# 100 MESH, 98,940 F/0.25-2.0# 40/70 WHITE, 29,500 F/2.0# GARNETT RC. ISIP 6,083. FG 1.29, 15 MIN 5,285 PSI. AIR 89, MIR 92, AIP 7,789 PSI, MIP 8,281 PSI, LTR 6,484. RD C&J FRAC, RU API WL.

STG #27 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 8,091'. PERF @ 8,068' - 71', 8,013' - 16', 7,937' - 40'. POOH. RD API WL, RU C&J FRAC.

STG #27 FRAC, SICP 3,940 PSI, STARTED @ 15BPM, BD @ 5,924 PSI, PUMP 4,500 GALS 15% HCL ACID, SAND FRAC W/ 128,898 GALS SLICK 13,356 GALS LINEAR GEL, 141,372 GALS XL/GEL TO PUMP, 37,400 F/0.25-1.0# 100 MESH, 99,000 F/0.25-2.0# 40/70 WHITE, 30,060 F/2.0# GARNETT RC. ISIP 5,943. FG 1.27, 15 MIN 5,289 PSI. AIR 90, MIR 91, AIP 7,491 PSI, MIP 8,274 PSI, LTR 7,138. RD C&J FRAC, RU API WL.

STG #28 GIH W (3) / 3-1/8" HSC LOADED W/ 5SPF W/ 60 DEG PHASING, 45 HOLES (TITAN EXP-3321-421T 21.0" GR, EHD 0.42") & BAKER 5-1/2" FP. SET PLUG @ 7,900'. PERF @ 7,877' - 80', 7,798' - 01', 7,709' - 12'. POOH. RDMO API WL, RU C&J FRAC.

STG #28 FRAC, SICP 4,036 PSI, STARTED @ 15BPM, BD @ 6,286 PSI, PUMP 2,520 GALS 15% HCL ACID, SAND FRAC W/ 114,408 GALS SLICK 13,566 GALS LINEAR GEL, 140,574 GALS XL/GEL TO PUMP, 36,000 F/0.25-1.0# 100 MESH, 98,820 F/0.25-2.0# 40/70 WHITE, 30,000 F/2.0# GARNETT RC. ISIP 6,170. FG 1.30, 15 MIN 5,557 PSI. AIR 89, MIR 90, AIP 7,737 PSI, MIP 8,414 PSI, LTR 6,729. RDMO C&J FRAC.TOTAL LTR= 214,936 BBLs; EDWC \$279,510; ETWC \$2,789,391.

- 05-26-15 PRESENT OPERATION: POOH CTU; SAFETY MEETING; MIRU RED ZONE 2" CTU, TD CHEMICALS MIXING PLANT & FILTERPOD. MU TTS BHA AS FOLLOWS: 2" CC/BPV (PULL TEST 25K), 2.88" OD HYDRASET JARS, 2.88" OD HYDRAULIC DISCONNECT, 2.88" OD XRV TOOL, 2.88" OD TITIAN SUPERMAX 4 BPM MOTOR, 3.13" OD ROTARY SUB & 4.50" OD JZ BIT. FUNCTION TEST MOTOR, 3 BPM @ 3,700 PSI. FUNCTION TEST MOTOR 3 BPM @ 5,200. PSI TEST LUBRICATOR, STACK & FLOWBACK TO 8,000 PSI -OK. EQUALIZE TO 4,100 PSI, OW W/ 3,600 PSI. RIH ROLLING PUMPS OVER 0.5BPM IN/OUT TO 6,700'. INCREASE RATE TO 3BPM IN/OUT @ 4,500 PSI. WT CK 10K. START 10BBL 60 VISC SWEEPS EVERY 30 MIN. CONTINUE RIH & TAG PLUG #1 @ 7,929' (CTM). ST TO 6,500', PU 12K. RIH TAG PLUG #1. DRILL ON PLUG 1-1/2 HRS, MADE NO HOLE. TOTAL OF 4 STALLS. DECISION MADE TO POOH CHECK BHA. BHA LOOKED GOOD, NO UNUSUAL MARKINGS ON BIT, FUNCTION TEST MOTOR -OK. RIH TO PLUG # 1; CONTINUE TO DRILL ON PLUG W/ NO SUCCESS. DECISION MADE TO POOH; EDWC \$35,310; ETWC \$2,824,701.
- 05-27-15 PRESENT OPERATION: POOH CTU
TGSM: DISCUSSED DRILLOUT PROCEDURE, PPE, WORKING SAFE. POOH TO INSPECT BHA. BHA GOOD NO UNUSUAL MARKINGS ON BIT. DECISION MADE TO CHANGE OUT MOTOR & BIT. MU TTS BHA AS FOLLOWS: 2" CC/BPV (PULL TEST 25K), 2.88" OD HYDRASET JARS, 2.88" OD HYDRAULIC DISCONNECT, 2.88" OD XV TOOL, 2.88" OD TITIAN SUPERMAX 4 BPM MOTOR, 3.13" OD ROTARY SUB & 4.50" OD JZ BIT. FUNCTION TEST MOTOR, 3 BPM @ 3,200 PSI. TEST LUBRICATOR & STACK TO 8,000 PSI, OK. EQUALIZE TO 3,600 PSI, OW W/ 3,100 PSI. RIH ROLLING PUMPS OVER 0.5 BPM IN/OUT TO 6,700'. INCREASE TO 3 BPM IN/OUT @ 5,800 PSI. WT CK 15K. START 10BBL 60 VISC SWEEPS EVERY 30 MIN. CONTINUE RIH & TAG @ 7,932' CTM. COULD NOT SET ANY WEIGHT DOWN CATCH TOTAL OF 4 STALLS. DECISION MADE TO PULL UP TO KOP & FLOW WELL BACK TOTAL OF 50 BBLs @ 6-7 BPM. FLOW 50 BBLs BACK, AND CONTINUE RIH & TAG @ 7,932' CTM, WOULD NOT TAKE WEIGHT, CONTINUE TO STALL. DECISION MADE TO POOH & RUN IMPRESSION BLOCK. POOH, BREAKDOWN BHA, MU & RIH W/ 2" CC/BPV, 2.88" OD HYDRA JARS, 2.88" OD HYDRAULIC DISCONNECT, 2.88" OD XRV TOOL & 4.50" OD IMPRESSION BLOCK. RIH & SET DOWN @ 7,932', SET 12K DOWN AND POOH. BREAKDOWN IMPRESSION BLOCK & SENT PICTURES TO RON STRAHAN. DECISION MADE TO RIH WITH 4.50" OD JUNK MILL. MU TTS 2.88" OD TITIAN SUPERMAX MOTOR, 3.13" OD ROTARY SUB & 4.50" OD JUNK MILL. RIH TO 7,932' CTM COULD NOT SET WEIGHT ON MILL, CATCH 4 STALLS & DECISION MADE TO POOH & CHANGE MILLS; EDWC \$41,910; ETWC \$2,866,611.
- 05-28-15 PRESENT OPERATION: MIRU API WL; SAFETY MEETING; POOH. BREAKDOWN 4.50" OD JUNK MILL, TOP 2" OF MILL WAS WORE DOWN TO 4.30" OD. DECISION MADE TO RIH W/ 4.25" OD JUNK MILL. MU MILL, PRESSURE TEST LUBRICATOR, STACK & FLOWBACK TO 8K PSI. EQUALIZE & OW W/ 2,600 PSI. RIH TO 7,928' -7,930', STALLING OUT W/ LITTLE TO NO WEIGHT, TOTAL OF 4 STALLS, LAST PU WAS STICKY. POOH, MILL WAS WORE DOWN TO TOP CUT RITE, W/ OD OF 4.23". DECISION MADE TO RDMO; CTU & RUN DOWN-HOLE CAMERA; EDWC \$55,110; ETWC \$2,921,721.
- 05-29-15 PRESENT OPERATION: GIH W/ WELLTEC WL TRACTOR; MIRU API WL & GREASE PACKAGE. MIRU CASED HOLE SOLUTIONS PUMPS. MU API WL W/(1) 3-1/8" OD X 7' & (2) 2" OD X 7' WEIGHT BARS. 1-11/16" DOWNHOLE VISION INSIGHT CAMERA. TEST LUBRICATOR TO 6,000 PSI, OK. EQUALIZE & OW W/ 2,800 PSI. GIH TIE INTO ST JT @ 6,478' CONTINUE GIH PUMPING DOWN 14 BPM @ 5,000 PSI, CAMERA STOP MOVING @ 7,450', POOH TO KOP. DECISION MADE TO MAKE ANOTHER ATTEMPT. GIH PUMPING DOWN 17 BPM @ 5,200 PSI, CAMERA STOP MOVING @ 7,498'. POOH TO KOP & DECISION MADE TO POOH AND RUN CAMERA W/WL TRACTOR. NOTE: API WL WAS DOWN TOTAL OF 10 HRS DUE TO BAD WEIGHT BARS & WO REPLACEMENTS; EDWC \$22,000; ETWC \$2,943,721.
- 05-30-15 PRESENT OPERATION: TURN WELL OVER TO FLOWBACK & WO; MIRU WELLTECH WL TRACTOR, MU & GIH W API (1) 3-1/8" X 7' WEIGHT BAR, (2) 2" X 7' WEIGHT BARS, WELLTECH WL TRACTOR & DOWNHOLE VISION INSIGHT CAMERA. GIH TO 7,200' AND SWITCH TO TRACTOR MODE. MOTOR DOWN TO 7,916' (WLM) & TAG PLUG. START RECORDING VIDEO OF PLUG AND APPROX 9' OF CASING WITH MILL WEAR. POOH, RDMO API WL, DOWNHOLE VISION, WELLTECH & CASED HOLE SOLUTION. TURN OVER TO FLOWBACK, TO TEST WELL @ 50 BPH; CP 2100#; FLWD 569 BW IN 12 HRS ON 15/64" CHK; REC 890 BW; BTLTR 215,510; LIGHT SD; EDWC \$22,000; ETWC \$2,965,721.
- 05-31-15 CP 1230#; FLWD 1 BO + 363 BW IN 12 HRS ON 18/64" CHK; REC 2213 BW (1%); BTLTR 214,188.
- 06-01-15 CP 825#; FLWD 46 BO + 377 BW ON 21/64" CHKI; BLWR 3475 BW (1.6%); BTLTR 212,925; LIGHT SD.

06-02-15 CP 500#; FLWD 19 BO + 330 BW ON 25/64" CHK; BLWR 4642 BW (2.1%); BTLTR 211,758.

06-03-15 CP 500#; FLWD 3 BO + 321 BW ON 28/64" CHK; BLWR 5750 BW (2.7%); BTLTR 210,650.

06-04-15 CP 230#; FLWD 68 BO + 1056 BW ON 33/64" CHK; BLWR 6803 BW (3.1%); BTLTR 209,597; NO SAND.

06-05-15 CP 100#; FLWD 64 BO + 1048 BW ON 41/64" CHK; BLWR 7851 BW (3.6%); BTLTR 208,549; NO SAND.

06-06-15 CP 20#; FLWD 63 BO + 907 BW ON OPEN CHK; BLWR 8758 BW (4%); BTLTR 207,647; NO SAND.

06-07-15 CP 0#; FLWD 3 BO + 125 BW ON OPEN CHK; BLWR 8883 BW (4.1%); BTLTR 207,517; NO SAND.

06-08-15 CP 0#; FLWD 36 BO + 345 BW ON OPEN CHK; BLWR 9228 BW (4.3%); BTLTR 207,172; WELL STARTED BURPING AROUND 4 A.M. PRESENT OPERATION: CONT. IN HOLE W/ CASING ROLLER; RU BASIC WELL SERV. WOR. UNLOAD & TALLEY (316) JTS 2-7/8" 6.5# L-80 8RD EUE TBG. MIRU PIÑON PUMP UNIT & PUMP 40 BBL 10# BRINE WATER DOWN CSG. PUMPED 3 BPM @ 600 PSI. SD ISIP 200 PSI. 2 MIN. 0 PSI. GIH W/ 4 3/16" MILL, 34 JTS 2 7/8" 6.5# L-80 8RD EUE TBG, 4 - 3 1/8" 18# DC, 5 JTS 2-7/8" 6.5# L-80 8RD EUE TBG, 3 1/8" NOV JARS, 203 JTS 2-7/8" 6.5# L-80 8RD EUE TBG TO TAG TIGHT SPOT @ 7,904'. WORKED IN HOLE TO 7,926' AND TAGGED PLUG. WORKED IN & OUT SEVERAL TIMES. POOH. REMOVE 4 3/16" MILL. MU 4 5/8" CASING ROLLER & RUN 34 JTS 2 7/8" 6.5# L-80 8RD EUE TBG, 4 - 3 1/8" 18# DC, 5 JTS 2 7/8" 6.5# L-80 8RD EUE TBG. SECURE WELL. TURN OVER TO FLOWBACK FOR THE NIGHT. SDON; EDCC \$21,450; ETCC \$2,965,721.

06-09-15 CP 0#; FLWD 38 BO + 336 BW ON OPEN CHK; BLWR 9564 BW (4.4%); BTLTR 206,836; NO SAND. CONTINUE TO TOH; MIRU PIÑON PUMP UNIT & PUMP 40 BBL 10# BRINE WATER DOWN CSG. PUMPED 2 BPM W/ 0 PSI. RIH TO TIGHT SPOT @ 7904', RU POWER SWIVEL. PUMP 60 BBLS LEASE WATER AT 2.4 BPM. ONCE TBG LOADED DROPPED RATE TO 1 BPM. START WORKING DOWN CASING ROLLER, WORKING IN & OUT 3" AT A TIME. TAGGED UP 7,926'. RD POWER SWIVEL. POOH LAYING DOWN 4 - DC AND JARS. UPON INSPECTION OF CASING ROLLER AFTER GETTING OUT OF HOLE, IT WAS DISCOVERED THAT ROLLER HAD BEEN SMASHED IN FROM 4 5/8" TO 4.12". MU 4 1/2" CASING SWEDGE & TIH W/, 34 JTS 2 7/8" 6.5# L-80 8RD EUE TBG, 4 - 3 1/8" 18# DC, 5 JTS 2-7/8" 6.5# L-80 8RD EUE TBG, 3 1/8" NOV JARS, 202 JTS 2-7/8" 6.5# L-80 8RD EUE TBG TO 7,921', WORKED SWEDGE & TOH W/ 39 JTS 2-7/8" 6.5# L-80 8RD EUE TBG. SDON; EDCC \$21,450; ETCC \$2,987,171.

06-11-15 PRESENT OPERATION: DRLG PLUGS; WASH TO 9207'. P/UP STRING FLOAT DUE TO LEAKING STRING FLOAT @ BIT. WASH SAND OFF PLUG. DRILL PLUG #6 @ 9207' W/ 3 BBLS IN 3.25 BBLS OUT. CSG PRESSURE @ 125 PSI. TUBING PRESURE @ 750 PSI. WASH TO 9484'. WASH SAND AND FLOAT DEBRIS. DRILL PLUG #7 @ 9484' W/ 3 BBLS IN 3.5 BBLS IN - 4 BBLS OUT. CSG PRESSURE @ 75 PSI. TUBING PRESSURE @ 700 PSI. WASH TO 9692'. WASH SAND. DRILL PLUG #8 @ 9692' W/ 3.2 BBLS IN - 3.7 OUT. SAND CAME IN AFTER DRILLED PLUG. CIRC SAND AND PLUG DEBRIS. CSG PRESSURE @ 40 PSI. TUBING PRESSURE @ 700 PSI. WASH SAND TO 9904'. HANGING UP AND STALLING POWER SWIVEL DUE TO SAND. LAYDOWN 2 JTS, CIRC 20 BBL SWEEP BOTTOMS UP, WASH 2 JTS TO TOP OF PLUG. PUMP SWEEP, DRILL PLUG #9 @ 9904' W/ 3 BBLS IN, 3.75 BBLS OUT. CIRC SAND BEFORE CONN. CSG PRESSURE @ 100 PSI TUBING PRESSURE @ 700 PSI. WASH THROUGH SAND TO TOP OF PLUG, PUMP 20 BBLS SWEEP, CIRC. DRILL PLUG #10 @ 10,124' W/ 3.2 BBLS IN, 4 BBLS OUT. CIRC 20 BBS. CSG PRESSURE @ 100 PSI, TUBING PRESSURE @ 850 PSI WASH TO TOP OF PLUG, CHANGE COLLAR ON JT 317, PUMP 20 BBL SWEEP, CIRC. DRILL PLUG #11 @ 10,373' W/ 3.0 BBLS IN, 3.5 BBLS OUT. CIRC 20 BBLS. CSG PRESSURE @ 100 PSI, TUBING PRESSURE @ 750 PSI; *** 3RD WRAP OF DRILLING LINE UNRAVELING ON DRUM. CONTACTED BASIC ENERGY AND WILL BE REPLACED BEFORE TRIP*** WASH 2 JTS DOWN. CHANGE TIW VALVE RUBBER. WASH TO TOP OF PLUG #12. PUMP 20 BBL SWEEP. GAINED 42 BBLS OVER LAST 8 HRS; EDCC \$21,450; ETCC \$3,030,071.

- 06-12-15 PRESENT OPERATION: DRLG PLUGS; GAINED 590 BBLs; CIRC 20 BBL SWEEP. DRILL PLUG #12 @ 10,591' W/ 3.2 BBLs IN, 3.5 BBLs OUT. CIRC 20 BBLs. CSG PRESSURE @ 100 PSI, TUBING PRESSURE @ 850 PSI. WASH THROUGH SAND TO TOP OF PLUG, PUMP 20 BBLs SWEEP, CIRC. DRILL PLUG #13 @ 10,798' W/ 3.2 BBLs IN, 4 BBLs OUT. CIRC 20 BBLs. CSG PRESSURE @ 100 PSI, TUBING PRESSURE @ 850 PSI; **BASIC ENERGY CHECKED OUT THE DRILLING LINE AND CONCLUDED THAT NO STRANDS WERE BROKEN, CONTINUE DRILLING UNTIL SUITABLE TIME TO CHANGE** WASH THROUGH SAND TO TOP OF PLUG, PUMP 20 BBLs SWEEP, CIRC. DRILL PLUG #14 @ 11,038' W/ 3.2 BBLs IN, 3.5 BBLs OUT. CIRC 20 BBLs. CSG PRESSURE @ 100 PSI, TUBING PRESSURE @ 850 PSI TUBING PRESSURE CAME UP TO 1500 AFTER PLUG WAS DRILLED. CIRC TO TANK DISASSEMBLE AND CLEAN OUT PLUG CATCHER LINES. TUBING PRESSURE BACK TO 750 PSI. WASH TO TOP OF PLUG #14 @ 11,210'. CIRC SWEEP TO TOOH F/BIT. PULL 30 STDS, MAKE UP PRESSURE RELIEF VALVE ON TOP OF STRING FLOAT. NO TUBING PRESSURE. BREAK VALVE AND STRING FLOAT. PULL TO 7800'. PUMP 15 BBL OF 90 VIS SWEEP TO HEIGHT OF 7200'. PULL THROUGH TIGHT SPOT IN CASING @ 7932' WITH SLIGHT BOBBLE ON WEIGHT INDICATOR. TOOH, NO TORQUE OR DRAG. WELL FLOWING 1/2 BBL MIN. SHUT BOP WHILE BREAK BIT & FLOAT. NO CSG PRESSURE. L/D DC'S; P/UP NEW FLOAT AND NEW 4" PDC LOGIC HA-2G ROLLER CONE BIT. SER #132073 WORK ON TONGS 2 HRS, WORK ON RIG 1 HR; M/UP STRING FLOAT TO DC'S, TIH. L/D DC'S & FLOAT. TIH; ED CC \$21,450; ETCC \$3,051,521.
- 06-13-15 PRESENT OPERATION: DRLG PLUGS; FINISH TIH. WASH THROUGH SAND TO TOP OF PLUG, CIRC. DRILL PLUG #15 @ 11,215" W/ 3.5 BBLs IN, 4 BBLs OUT. CIRC 20 BBLs. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 850 PSI WASH TO TOP OF PLUG, CIRC. DRILL PLUG #16 @ 11,400' W/ 3.5 BBLs IN, 4 BBLs OUT. CIRC 20 BBLs. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 850-1500 PSI. PRESSURING UP. PLUG CATCHER AND STACK STOPPED UP WITH RUBBER PLUG. BREAK LINES, CLEAN OUT. WASH TO TOP OF PLUG, PUMP 20 BBL SWEEP. DRILL PLUG #17 @ 11,635' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE 150 PSI, TUBING PRESSURE @ 1000 PSI. 2 HRS. TO DRILL PLUG W/ 2000 TORQUE; WASH TO TOP OF PLUG, CIRC. DRILL PLUG #18 @ 11,896' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 1000 PSI. 2.25 HRS. TO DRILL PLUG W/ 2000 TORQUE PUMP 15 BBL SWEEP. WASH TO TOP OF PLUG, CIRC. DRILL PLUG #19 @ 12,168' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 1000 PSI. 2.25 HRS. TO DRILL PLUG W/ 2000 TORQUE CIRC 20 BBLs. WASH TO TOP OF PLUG, CIRC SAND. DRILL PLUG #20 @ 12,348' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 1000 PSI. 1.75 HRS. TO DRILL PLUG W/ 2000 TORQUE; WASH TO TOP OF PLUG #20 @ 12,348' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 1000 PSI. GAINED 237 BBLs TOTAL; EDCC \$21,450; ETCC \$3,072,971.
- 06-14-15 PRESENT OPERATION: DRLG PLUGS; DRILL PLUG #21 @ 12,348' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 1000 PSI. WASH TO TOP OF PLUG, CIRC. DRILL PLUG #22 @ 12,548' W/ 3.5 BBLs IN, 4 BBLs OUT. CIRC 20 BBLs. CSG PRESSURE @ 150 PSI, TUBING PRESSURE @ 1000 PSI; PLUG CATCHER AND STACK STOPPED UP WITH RUBBER PLUG. BREAK LINES, CLEAN OUT. REPAIR POWER SWIVEL HOSES; WASH TO 13,045', STACKING WEIGHT AND TORQUING UP. PUMP 20 BBL SWEEP. DRILL TRASH TO 13,051' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 250 PSI, TUBING PRESSURE @ 1000 PSI. WASH 2 JTS, GET HUNG UP THEN FREED FROM RUBBER, CIRC. CIRC 20 BBLs SWEEP AROUND W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 250 PSI, TUBING PRESSURE @ 1000 PSI. RAISE TORQUE TO 2300 PSI; WASH TO TOP OF PLUG, CIRC. DRILL PLUG #23 @ 13,119' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 250 PSI, TUBING PRESSURE @ 1000 PSI; CIRC 20 BBLs. WASH TO TOP OF PLUG, CIRC. DRILL PLUG #24 @ 13,380' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 250 PSI; TUBING PRESSURE @ 1000 PSI. CIRC 20 BBLs. WASH TO TOP OF PLUG. DRILL PLUG #25 @ 13,565" W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 50 PSI, TUBING PRESSURE @ 1000 PSI. GAINED 428 BBLs TOTAL; NOTE FROM JESSE: WASHING TO TOP OF PLUG #21 @ 12,548'. SEEING SMALL AMOUNT OF SAND. PLUGS ARE TAKING 1 1/2 TO 2 1/4 HRS TO DRILL. TORQUE @ 2000 PSI, TUBING @ 1000 PSI, CASING @ 200 PSI. 3 TO 3.5 BBLs IN, 3.75 TO 4 BBLs OUT; EDCC \$21,450; ETCC \$3,094,421.
- 06-15-15 PRESENT OPERATION: WASH TO TOP OF PLUG, CIRC. DRILL PLUG #26 @ 13,557' W/ 3.5 BBLs IN, 4 BBLs OUT. CIRC 20 BBLs. CSG PRESSURE @ 200 PSI, TUBING PRESSURE @ 1050 PSI; PLUG CATCHER AND STACK STOPPED UP WITH RUBBER PLUG. BREAK LINES, CLEAN OUT. WASH TO TOP OF PLUG, CIRC. DRILL PLUG #27 @ 13,991' W/ 3.5 BBLs IN, 4 BBLs OUT. CSG PRESSURE @ 200 PSI, TUBING PRESSURE @ 1050 PSI. CIRC 20 BBLs. PUMP SWEEP. RUN TO 14,230', CIRC SWEEP. UNPLUG STACK AND LINES. CIRC. PULL 21 STDS, L/D STRING FLOAT, PULL 75 STDS, CIRC SWEEP PAST TIGHT SPOT, PULL 11 STDS LEAVING 6,955' IN DERRICK. L/D 100 JTS. DISPLACE HOLE W/ 155 BBLs BRINE. L/D 125 JTS AND SHUT IN WELL. FLOWING 2 BBLs/MIN NONRESTRICTED. MONITOR WELL FLOWING 1.5 TO 2 BBLs/MIN FIRST HOUR. SHUT IN WELL W/ 250 LB CASING PRESSURE. BURP WELL EVERY 30 MINUTES. PRESSURE CLIMBED TO 280 PSI; EDCC \$21,450; ETCC \$3,115,871.

06-16-15 PRESENT OPERATION: WELL TURNED OVER TO PRODUCTION; WELL FLOWING 100 BPH @ 90 PSI, DECISION MADE TO LAY DOWN (214) JTS 2-7/8" 6.5# L-80 8RD EUE TBG FROM DERRICK. ND WOR BOP. MIRU KLX; ND FLOWCROSS, RU KLASSEN FLOWBACK; OW W/ 460 PSI. RDMO BASIC WELL SERVICE. TURNED OVER TO FLOWBACK; EDCC \$21,450; ETWC \$3,137,321.

06-17-15 WELL FLWG @ 6 A.M.; CP 90#; CHK OPEN; REC 39 BO + 1036 BW; 14,178 BLWR (6.6%); 202,222 BLWTR; NO SAND.

06-18-15 WELL FLWG @ 6 A.M.; CP 90#; CHK OPEN; REC 115 BO + 1399 BW; 15,177 BLWR (7.2%); 200,823 BLWTR; NO SAND.

06-19-15 WELL FLWG @ 6 A.M.; CP 85#; CHK OPEN; REC 119 BO + 1238 BW; 16,815 BLWR (7.8%); 199,585 BLWTR; NO SAND.

06-20-15 WELL FLWG @ 6 A.M.; CP 0#; SI CHK; REC 0 BO + 598 BW; 17,413 BLWR (8%); 198,987 BLWTR.

06-21-15 WELL FLWG @ 6 A.M.; CP 55#; OPEN CHK; REC 61 BO + 1022 BW; 18,435 BLWR (8.5%); 197,965 BLWTR.

06-22-15 WELL FLWG @ 6 A.M.; CP 55#; OPEN CHK; REC 74 BO + 1068 BW; 19,458 BLWR (9%); 196,942 BLWTR.

06-23-15 WELL FLWG @ 6 A.M.; CP 60#; OPEN CHK; REC 84 BO + 992 BW; 20,450 BLWR (9.4%); 195,950 BLWTR.

06-24-15 WELL STOPPED FLWG; LEFT OPEN TO TANK @ 5 A.M.; CP 0#; OPEN CHK; REC 154 BO + 996 BW; 21,446 BLWR (9.9%); 194,954 BLWTR.

06-25-15 CURRENTLY W/O COMPLETION UNIT TO RUN ESP; RIG DUE ON LOCATION TODAY 6/25/15; PLAN TO RUN ESP TOMORROW MORNING; FLWG @ 6 A.M.; CP 0#; OPEN CHK; REC NO FLUID; 21,446 BLWR (9.9%); 194,954 BLWTR.

06-26-15 PRESENT OPERATION: RUN GE ESP; MIRU FALCON WOR, MIRU PINION TRUCKING & PUMP 90 BBLs OF BRINE WATER. ND 7-1/16" X 10K B-SECTION, NU 7-1/16" X 5K B-SECTION. NU WOR BOP, RU TBG. TOOLS, TAKE DELIVERY OF (169) JTS 2-7/8" 6.5# L-80 8RD EUE TBG. TURNED WELL OVER TO FLOWBACK TANKS OVER NIGHT. SDON; 194,954 BLWTR; EDCC \$7849; ETWC \$3,145,170.

06-27-15 PRESENT OPERATION: TURNED OVER TO PRODUCTION; TIH W/ 2-7/8" BULL PLUG, (5) JTS 2-7/8" 6.5# L-80 8RD EUE TBG, (1) CAV. DESANDER, (1) BOB FILTER, (2) TR4-92 MOTORS, (2) TR4 SEALS, (1) MAG -2 SEP/INTAKE, (4) TD 3500 MOTORS & (198) JTS 2-7/8" 6.5# L-80 8RD EUE TBG. ND BOP, FLANGE WELL UP, TIE IN ESP CABLE TO WELL HEAD & BUILD FLOWLINE. RDMO FALCON WOR; TURNED UNIT ON 50HZ W/ INTAKE OF 3,194 PSI- OK. ADJUSTED TO 57HZ @3,168 PSI; TURNED ON DOWNHOLE PUMP @ 1:00 A.M.; AT 6:00 A.M.; TP 235#; CP 0#; OPEN CHK; REC 53 BO + 591 BW; GAS RATE N/A; BLWR 22,037 (10.2%); BLWTR 194,393; EDCC \$8949; ETWC \$3,154,119.

06-28-15 AT 6:00 A.M.; TP 185#; CP 100#; OPEN CHK; REC 247 BO + 2069 BW; GAS RATE 264; BLWR 24,106 (11.2%); BLWTR 19,294.

06-29-15 AT 6:00 A.M.; TP 220#; CP 150#; OPEN CHK; REC 293 BO + 1883 BW; GAS RATE 360; BLWR 25,939 (12%); BLWTR 190,461; NOTE: TURNED HERTZ UP TO 65 @ 11:00 P.M.

06-30-15 AT 6:00 A.M.; TP 215#; CP 150#; OPEN CHK; REC 179 BO + 987 BW; GAS RATE 336; BLWR 27,768 (12.8%); BLWTR 188,632.

07-01-15 AT 6:00 A.M.; TP 215#; CP 150#; OPEN CHK; REC 347 BO + 1854 BW; GAS RATE 360; BLWR 29,622 (13.7%); BLWTR 186,788.

07-02-15 AT 6:00 A.M.; TP 215#; CP 150#; OPEN CHK; REC 347 BO + 1854 BW; GAS RATE 360; BLWR 29,622 (13.7%); BLWTR 186,788.

07-03-15 AT 6:00 A.M.; TP 200#; CP 150#; OPEN CHK; REC 334 BO + 1604 BW; GAS RATE 336; BLWR 32,745 (15.1%); BLWTR 183,655.

07-04-15 AT 6:00 A.M.; TP 230#; CP 140#; OPEN CHK; REC 357 BO + 1591 BW; GAS RATE 408; BLWR 34,338 (15.9%); BLWTR 182,062.

07-05-15 AT 6:00 A.M.; TP 210#; CP 130#; OPEN CHK; REC 343 BO + 1535 BW; GAS RATE 360; BLWR 35,873 (16.6%); BLWTR 180,527.

07-06-15 AT 6:00 A.M.; TP 320#; CP 130#; OPEN CHK; REC 343 BO + 1569 BW; GAS RATE 312; BLWR 37,442 (17.3%); BLWTR 178,958. 07-07-15 AT 6:00 A.M.; TP 320#; CP 120#; OPEN CHK; REC 332 BO + 1444 BW; GAS RATE 336; BLWR 38,886 (18%); BLWTR 177,514.

07-07-15 AT 6:00 A.M.; TP 320#; CP 120#; OPEN CHK; REC 332 BO + 1444 BW; GAS RATE 336; BLWR 38,886 (18%); BLWTR 177,514.

07-08-15 AT 6:00 A.M.; TP 320#; CP 130#; CHK 31/64; REC 318 BO + 1417 BW; GAS RATE 336; BLWR 40,303 (18.6%); BLWTR 176,097.

07-09-15 AT 6:00 A.M.; TP 210#; CP 130#; CHK OPEN; REC 341 BO + 1412 BW; GAS RATE 408; BLWR 41,715 (19.3%); BLWTR 174,885.

07-10-15 AT 6:00 A.M.; TP 190#; CP 130#; CHK OPEN; REC 368 BO + 1401 BW; GAS RATE 360; BLWR 43,116 (19.9%); BLWTR 173,284.

07-11-15 AT 6:00 A.M.; TP 180#; CP 130#; CHK OPEN; REC 354 BO + 1395 BW; GAS RATE 360; BLWR 44,511 (20.6%); BLWTR 171,889.

07-12-15 AT 6:00 A.M.; TP 190#; CP 125#; CHK OPEN; REC 324 BO + 1287 BW; GAS RATE 384; BLWR 45,798 (21.2%); BLWTR 170,602.

07-13-15 PRESENT OPERATION: TIH W/ ESP; MIRU LFR WOR, NU BOP & TOH W/ (198) JTS 2-7/8" 6.5# L-80 8RD EUE TBG, S/N, (4) TD 3500 PUMPS, (1) MAG-2 GAS/SEP, (2) TR4-98L SEALS, (2) TR4-92 180 HP MOTORS. (1) BOB FILTER, (1) CAVENS DESANDER & (5) JTS 2-7/8" 6.5# L-80 8RD EUE TBG W/ 2-7/8" BULL PLUG. SDON. NOTE: TOP 3 PUMPS WERE LOCKED UP, VERY LITTLE SAND IN LAST JT OF TAIL PIPE.FLWG @ 6 A.M. TP 300#; CP N/A; CHK 35/64" REC 0 BO + 955 BW; BLWR 46,990 (15.1%); BLWTR 263,993; INTAKE 1051.3#; EDCC \$3300; ETCC \$3,157,419.

07-14-15 PRESENT OPERATION: RDMO LFR, TURN OVER TO PRODUCTION; TIH W/ 2-7/8" BULL PLUG, (5) JTS 2-7/8" 6.5# L-80 8RD EUE TBG, (1) CAV. DESANDER, (1) BOB FILTER, (2) TR4-92 MOTORS, (2) TR4 SEALS, (1) MAG - 2 SEP/INTAKE, (5) TD 3500 MOTORS & (194) JTS 2-7/8" 6.5# L-80 8RD EUE TBG. ND BOP, FLANGE WELL UP, TIE IN ESP CABLE TO WELL HEAD.TURNED UNIT ON 55HZ W/ INTAKE OF 1,924 PSI,OK. ADJUSTED TO 57HZ @ 1,770 PSI. NOTE: VERIFIED W/ GE (CHANCE BRINKER) THAT ALL SETTINGS DEPTHS WERE WITHIN THEIR PUMP SPECS.

TBG DETAILS:

(194) JTS 2-7/8" 6.5# L-80 8RD EUE TBG - 6,325'

(5) TD 3500 PUMPS

(1) MAG-2 GAS SEPERATOR / INTAKE SET @ 6,465'

(2) TR4-98L SEALS

(2) TR4-92 180 HP MOTOR SET @ 6,541'

(1) BOB FILTER

(1) CAVENS DESANDER

(5) JTS 2-7/8" 6.5# L-80 8RD EUE TBG. EOT- 6,708'; INTAKE 1051.3#; AT 6:00 A.M.; TP 260#; CP 225#; CHK OPEN; REC 229 BO + 1186 BW; GAS RATE 552 IN 11 HRS; BLWR 47,045 (21.7%); BLWTR 169,335; EDCC \$13,860; ETCC \$3,171,279;

07-15-15 FLWG @ 6 A.M.; TP 290#; CP 265#; REC 531 BO + 2138 BW; GAS RATE 576; BLWR 49,183 (22.7%); BLWTR 167,217

07-16-15 FLWG @ 6 A.M.; TP 285#; CP 165#; REC 546 BO + 1771 BW; GAS RATE 576; BLWR 50,954 (23.5%); BLWTR 165,446.

07-17-15 DOWN HOLE PUMP WENT DOWN @ 4:15 A.M. (CODE 021 UNDER LOAD) RESTART TIME 6:15 A.M; FLWG TP 95#; CP 100#; REC 491 BO + 1504 BW; GAS RATE 48; BLWR 52,458 (24.2%); BLWTR 163,942.

07-18-15 FLWG @ 6 A.M. TP 250#; CP 155#; REC 455 BO + 1442 BW; GAS RATE 552; BLWR 53,900 (24.9%); BLWTR 162,500.

WAPITI 12-26 #1H

THREE BAR (WICHITA) LATSHAW DRILLING RIG #21

ANDREWS COUNTY, TX

AFE# 1401006

SPUD DATE: 2/13/2015

API: 42-003-46748

PROP NUM: N/A

07-19-15 FLWG @ 6 A.M. TP 245#; CP 155#; REC 481 BO + 1445 BW; GAS RATE 552; BLWR 55,355 (25.6%); BLWTR 161,045.

07-20-15 FLWG @ 6 A.M. TP 225#; CP 145#; REC 463 BO + 1384 BW; GAS RATE 463; BLWR 56,739 (26.2%); BLWTR 159,661.