



Daily Operations

Well Name: GRUEN 22-33

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Well Name	API	Job Type	Start Date	Summary
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	6/11/2019	SFTY MTG-MIRU-CHECK WHSIP(337/690 SRF 0)-PERFORM BRADENHEAD TEST-TEST BOP'S(LO/HI GOOD)-BLEED TBG THRU CHOKE T/WT-RC 130 BBLS T/REMOVE HYDROCARBONS-ND TREE-NU BOP'S-TEST WH CONNECTION(LO/HI GOOD)-RLS PSI-UNLND TBG-LD 40 JTS OF 2 3/8" 4.7# J-55 EUE TBG ON GROUND FOR LANDOWNER-TALLY OOH W/178 JTS T/DERRICK-SI-SECURE LOC
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	6/12/2019	SFTY MTG-CHECK WHSIP(CSG 20 SRF 0)-BLEED WELL T/WT-HOLD JSA W/SPN WL-RU WL-RIH W/CIBP-CORRELATE CCL-SET CIBP @ 6582'-POOH-RIH W/DUMP BAILER-SPOT 2 SKS OF CEMENT ON CIBP(EST CEMENT PLUG F/6582'-T/6570')-POOH -RD WL-LOAD CSG W/H20-PSI TEST CSG/PLUG T/1000#'S FOR 15 MINS(GOOD)-RLS PSI-ND BOP'S-ND 3K WH-NU 5K WH-NU BOP'S-MU SN/NC-TIH W/176 JTS OF 2 3/8" J-55 TBG(5536')-MU TBG MANDREL-LAND WELL-ND BOP'S-NU 5K WH-RD-SECURE LOC-MOB T/GRUEN 22-35-RU
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	8/15/2019	IWP- 0 PSI ON SURFACE CASING 0 PSI ON CASING 90 PSI ON TUBING ROAD RIG FROM THE DONALDSON USE EE29-12D TO THE GRUEN 22-23. HELD SAFETY MEETING IN DOG HOUSE. SPOTTED IN BASE BEAM. RU SERVICE UNIT. WAITED ON WINCH TRUCKS WITH THE REST OF THE EQUIPMENT (DELAYED FROM ANOTHER RIG MOVE). SPOTTED IN EQUIPMENT. LOCKED OUT WELL AND TANKS. SHUT DOWN. CREW TRAVEL.
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	8/16/2019	IWP- 0 PSI ON SURFACE CASING 0 PSI ON CASING 90 PSI ON TUBING CREW TRAVEL. HELD SAFETY MEETING IN DOG HOUSE. RU HARDLINE. PRESSURE TESTED HARDLINE, PIPE AND BLIND RAMS. BLEW DOWN WELL. ND WELLHEAD. NU BOP'S. PRESSURE TESTED STACK. RU FLOOR. LAID DOWN 176 JOINTS OF 2 3/8 4.7# J-55 EUE 8RD TUBING ON CAST TRAILER 222. RD FLOOR. LOADED HOLE WITH 12BBLS OF FRESH WATER. PRESSURE TESTED CASING/CIBP TO 1000 PSI FOR 15 MIN (HELD). ND BOP'S. ND 5K THREADED WELLHEAD. SHUT WELL IN. DRAINED HARDLINE AND PUMP. RACKED PUMP AND TANK. GOT EVERYTHING READY TO MOVE. LOCKED/TAGGED OUT WELL.
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	8/19/2019	CREW TO LOC. HELD SAFETY MEETING. IWP 10 PSI ON CSG 0 PSI ON SUR. MIRU SCHLUMBERGER WIRELINE & CEMENT TRUCKS. SPOT RAIN FOR RENT FW TANK & OPEN TOP TANK. BASIC SPOTS HALF ROUND CEMENT TANK. HOOK UP FLOWBACK FROM WELL TO MANIFOLD SYSTEM TO TANKS. RU CRANE TO PU LUBRICATOR. RIH W/4 1/2" CIBP SET @ 3554'. DUMP BAIL 2 SKS ON TOP OF CIBP. TOC @ 3528'. RIH W/ 6 SPF 60 DEGREE PHASING, 1' CSG PUNCH. SHOOT HOLES FROM 2500'-2501' RD SPENT GUN W/6 HOLES. RU CEMENT CREW. PUMP TOOK 1200 PSI TO BREAK FREE, SHUT DOWN FOR 1 MIN TO LET PRESSURE FALL OFF WENT BACK TO PUMPING STARTED GETTING AN INJECTION RATE, THEN CAUGHT CIRCULATION AFTER 6 BBLS FRESH WATER. RETURNS ARE FW FOR 35 BBLS THEN GET GASSY/HEAVY MUD FOR 25 BBLS, RETURNS GO BACK TO DIRTY/MUDDY WATER. PUMP A TOTAL OF 10 BBLS CHEM WASH, 140 BBLS FW. SWITCH TO CEMENT MIX & PUMP 185 SKS 15.8 PPG G-NEAT W/2% CC. VERIFIED W/MUD SCALE. DISP 31 BBLS FW. SWI @ 1355. WOC TO 1500. PSI TEST CSG TO 500 PSI TO MAKE SURE SQUEEZE HOLES ARE COVERED. GOOD TEST. RELEASE PSI, RIH W/ JET CUTTER. JET CUT CSG & 992'. RD WL. RU CEMENTERS. MAX PSI TO LIFT 548 PSI @ 15.8 PPG CEMENT. 630 MAX PSI @ H20. ATTEMPT TO PUMP @ 500 PSI TIGHT NO MOVEMENT. WORK IT ALL THE WAY UP TO 1000 PSI (CONFIDENT CSG IS NOT CUT) PRESSURE HOLDS TIGHT. MAKE SURE ALL LINES ARE CLEARED. NO ISSUES. CALL ENGINEER TO RE-RUN ANOTHER CUTTER. WL CREW DOES NOT HAVE ONE. SDFN. SECURE WELL. CREW TO YARD. CIBP @ 3554' DUMP BAIL 2 SKS TOC @ 3528' 1' 6 SPF SQUEEZE GUN 2500'-2501' 185 SKS 38.22 BBLS 15.8 PPG G-NEAT W/2% CC 2501'-1992' JET CUT @ 992' (I BELIEVE CUTTER DID NOT WORK CORRECTLY)



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GRUEN 22-33	05-123-22023	PLUG AND ABANDON	8/20/2019	0600 - 0900 LOOPS (360) SAFETY MEETING, GREELEY OFFICE. 0930: WSL & CREWS TO LOC, SM, COMPLETE JSA. SIP (C:0, S:0) PRESSURE TEST & ATTEMPT TO CIRC JET CUT FROM PREVIOUS DAY @ 992'. PRESSURED UP TO 550psi AND HELD SOLID, NO COMMUNICATION, RELEASE PRESSURE. RU SLB WIRELINE, MU 4-1/2" OWENS JET CUTTER, RIH TO DEPTH, APPLY 500 psi TO PROD CSG FOR CUT, CUT CSG @ 982', GOOD REPORT AT SFC W/ 40psi DROP ON PRESSURE, NO COMMUNICATION UP SFC CSG, OOH W/ SPENT CUTTER. ENGAGE CMT PUMP, SURGE, PRESSURE UP & ATTEMPT TO CIRC WELL, MAX PRESSURE APPLIED, 800 psi, NO CIRCULATION OR COMMUNICATION. SD, RELEASE PRESSURE, WAIT ON SLB CMT LOGGING TOOLS. MU, RIH W/ 3.75" JBGR, STACK OUT HARD AT 982', OOH W/ JBGR. MU, RIH W/ CMT RBL, LOG FROM 983' TO SURFACE, OOH W/ LOGGING TOOLS. SEND IN FOR REVIEW. ENGAGE CMT PUMP, SURGE, PRESSURE UP & ATTEMPT TO CIRC WELL, NO CIRCULATION OR COMMUNICATION. TRIED REV-CIRC DN SFC CSG, NO COMMUNICATION. RELEASE PRESSURE. DECISION MADE TO RDMO, CALL IN RIG TO PULL CSG. RD, PREP TO MOVE.
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	8/22/2019	CREW TO LOC. IWP 0 PSI ON CSG & SUR. HELD SAFETY MEETING. MIRU SLB CRANE WL TRUCK, CEMENT TRUCK, FLOWBACK & TANKS. RIH 1' 6 SPF 60 DEGREE PHASING SQUEEZE GUN. ATTEMPT TO GET PAST 982' NOT ABLE TO, SHOOT HOLES FROM 976'-977'. RD WL TRUCK & CRANE. WE ARE ABLE TO PUMP INTO THE PERFS @ 2 BPM 80 PSI. TAKES 5 BBLS TO LOAD THE WELL & SEE CIRC. PUMP 10 BBLS CHEM WASH & 60 BBLS FW. TO ROLL THE HOLE AGAIN. DISPOSE OF 70 BBLS WATER TO C9 W/RANGER TRUCK. SECURE WELL., SDFN CREWS TO YARD. 1' 6 SPF SQUEEZE GUN 976'-977'
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	8/23/2019	CREW TO LOC. HELD SAFETY MEETING. IWP 0 PSI ON CSG & SUR. OPEN WELL UP MONITOR WELL. NO BUBBLES WELL ON SLIGHT VACUUM ENTIRE TIME. TAKES 2 BBLS TO LOAD WELL. PUMP 10 BBLS FW AHEAD OF CEMENT, BATCH UP CEMENT, VERIFY CEMENT WEIGHT BY SCALE @ 15.6 PPG. 1.16 YIELD 5.13 GAL/SK MIX RATIO, PH 8, LESS THAN 500 ON CHLORIDE TEST. START PUMPING CEMENT DOWN CSG UP SUR @ 2 BPM 125 PSI. 30 BBLS INTO JOB WELL IS TAKING CEMENT FASTER THAN WE ARE PUMPING IT, PUMPING @ 2.8 BPM @ 110 PSI (WITH THE PUMP NOT EVEN IN GEAR ONLY USING THE CHARGE PUMP STILL PUMPING THAT FAST) TOOK SECOND WET SAMPLE 40 BBLS INTO JOB @ 15.87 PPG BY DENSITOMETER. SEE CEMENT BACK TO TANK @ 61 BBLS. PUMP FROM 977' TO SUR WITH A TOTAL OF 66 BBLS 322 SKS 15.8 PPG G-NEAT CEMENT W/2% CC. WASH UP LINES DISP 15 BBL TO CLEAN EVERYTHING UP. REMOVE CROSS PLACE SWAGE ON TOP OF WELL. LOCK OUT WITH LOCKS @ PTA SIGN. SECURE WELL. RDMOL. MOVE TO WELLS RANCH USX AE 31-02P. MIRU SPOT IN SDFN. CREW TO YARD. 977'-SUR W/ 66 BBLS 322 SKS 15.8 PPG G-NEAT W/2%CC. TAGGED CEMENT ON 8-27-19 @ 49' 0 PSI ON CSG & SUR.
GRUEN 22-33	05-123-22023	PLUG AND ABANDON	2/19/2020	CUT CAP WELL. CEMENT BEFORE CUT: SURFACE. CMT AFTER CUT: 5' 2 SACKS TOP OFF.