

Well Name: EMPIRE 01

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|-----------------------|---|------------------------------|--------------------------------|-------------------|-------------------------|
| API # 05-123-05190 | Surface Legal Location NENW 11 5N61W 6 | Field Name | Permit Number | State CO | Well Configuration Type |
| Ground Elevation (ft) | Casing Flange Elevation (ft) | Orig KB-Ground Distance (ft) | KB-Casing Flange Distance (ft) | Surface Spud Date | Final Rig Release Date |

Job: Abandon Well / <jobsubtyp> , 11/18/2022 06:00, <afenumbercalc>

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|--------------------------|----------------------------------|--------------------|
| Job Category Abandon | Primary Job Type Abandon Well | Secondary Job Type |
| Start Date 11/18/2022 | End Date 11/28/2022 | |
| Objective | | |

SUMMARY

| Rpt # | Start Date | End Date | 24 Hr Summary | REMARKS/ISSUES |
|-------|------------|------------|---|----------------|
| 1.0 | 11/18/2022 | 11/19/2022 | AOL, SAFETY MEETING, LOAD & MOVE EQUIPMENT TO LOCATION, RIG INSPECTION, MIRU, RIG UP RIG & EQUIPMENT, NU BOP (9" 3K FLANGE, 9" 3K X 11" 3K SPOOL, 11" 3K FLOW CROSS, 11" 3K DOUBLE GATE, W/ 5" PIPE RAMS & BLINDS, 11" 3K BAG, 11" ROTATING HEAD), MAKE UP 7 7/8" DRILL BIT, SPUD WELL, DRILL OUT SURFACE CSG, TEST CSG @ 230' TO 200PSI, CONTINUE DRILLING TO TD DEPTH | |
| 2.0 | 11/19/2022 | 11/20/2022 | SAFETY MEETING, SPUD WELL, DRILL OUT TO TAG @ 100', PRESSURE TEST CSG, LEAK ON WH, FIX LEAK, PRESSURE TEST, CONTINUE DRILLING, DRILL DOWN TO 135' AND START T GET METAL FILINGS, POOH TO LOOK AT BIT, CHANGE OUT BIT, TIH W/ 7 7/8" CONCAVE MILL BIT, TAG @ 97', START TO MILL, LOTS OF METAL FILINGS OVER SHAKERS, MILLED OUT TO 128' @ 0530, AVG OF 4.7' PER/HR | |
| 3.0 | 11/20/2022 | 11/21/2022 | SAFETY MEETING, CON'T MILLING FROM 128' TO 151' LOST TORQUE AND WEIGHT ON MILL WASH DOWN TO 169' TAGGED DEBIS MILL WITH 2K-3K BIT WEIGHT 60 RPM 200 - 600 TORQUE MOSTLY METAL FILING IN RETURNS TAGGED SOLID @ 200' SET THERE W/ 2K BIT WT, 60 RPM, 500 TORQUE SET THERE FOR 20MIN. (CMT & METAL IN RETURNS) THEN STALLED W/ 6K TORQUE, BIT STUCK CAN'T ROTATE, WORK PIPE TO 70K OVER STRING WT, WHILE WAITING ON SURFACE JARS, RU JARS, FISHED WORKED FREE, TOO H CHECK MILL BIT, CHANGE OUT MILL BIT, RIH TAG @ 172', START TO MILL, CURRENTLY @ 223', STILL HAVE METAL SHAVINGS COMING OVER SHAKER | |
| 4.0 | 11/21/2022 | 11/22/2022 | CON'T MILL TO 257' POOH L/D MILL, P/U & RIH WITH JETTED 7-7/8" TRI-CONE TOOTH BIT TAG AT 210' WASH DOWN TO 257' START DRILLING MAKING VERY LITTLE HOLE FOR 1HR. LOTS OF METAL W/ LITTLE CMT IN RETURNS STARTED MAKING GOOD HOLE 30 TO 40 FT/HR LOT OF DEHYDRATED MUD W/ SOME CMT & SCALE LITTLE METAL, DRILLED DOWN TO 423', STOPPED MAKING HOLE, TOO H TO CHANGE OUT TO 7 7/8" JUNK MILL, JETTED TRI-CONE LOOKED GOOD, TIH WITH JUNK MILL, DRILLED DOWN TO 453', NO METAL SHAVINGS COMING OVER SHAKERS, RETURNS LOOK LIKE DEHYDRATED MUD, TOO H AND CHANGE BIT TO TRI-CONE BIT, TIH AND START DRILLING | |
| 5.0 | 11/22/2022 | 11/23/2022 | DRILL 4' TO 456' IN 2.5 HRS THEN DRILL 18' TO 474' IN 35MIN MADE CONNECTION TOOK 1.5 HRS TO DRILL 5' TO 479' THEN 0.5 HR TO DRILL 38' TO 518' MADE CONNECTION DRILLED 7' THEN SLOWED DOWN DRILLING 1' PER/HR, FULL RETURNS WITH A LITTLE METAL & DEHYDRATED MUD, DRILLED TO 533', SEND SWEEP AND CIRC TO SURFACE, START POOH, PULLING TIGHT LOOKS LIKE WE HAVE SHOE ABOVE BIT WORK PIPE OOH WE THINK LEFT SHOE AROUND 450', FINISH POOH, RBIH W/ OPEN ENDED DP, CEMENT WITH THIXSO CMT 700 SKS (165BBL) 15.2#/GAL, 1.32 YIELD, 5.9 WR, CMT TO SURFACE, WOC, TAG TOC @ 50', START DRILLING | |
| 6.0 | 11/23/2022 | 11/24/2022 | CON'T DRILLING CMT TO 513', CON'T DRILLING TO 810' AT 80 TO 90 FT/HR, POOH CHANGE TO PDC BIT RIH CON'T DRILLING FROM 810' TO 1700' | |
| 7.0 | 11/24/2022 | 11/25/2022 | CON'T DRILLING FROM 1700' TO 4200' | |
| 9.0 | 11/26/2022 | 11/27/2022 | CONTINUE DRILLING FROM 5800' TO TD @ 6768', | |
| 8.0 | 11/26/2022 | 11/27/2022 | L/D DP RIH W/HWDP CONTINUE DRILLING TO TD @ 6768', CIRCULATE HIGH VIS SWEEPS, CIRCULATE 2 BOTTOMS UP, TOO H AND CHANGE BIT OUT FOR CMT JOB | |

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| 10.0 | 11/27/2022 | 11/28/2022 | MONITOR WELL FOR MIGRATION, MIRU CMT CREW, CEMENT WITH 75SKS OF G CMT W/ CMT RETARDER 15.8#/GAL (15.5BBL), 1.15 YIELD, WR 5.0GAL/SK, FROM 6768'-6500', TOOH 10 JTS, CIRCULATE WELL, TOOH TO 6100', CEMENT WITH 80SKS OF G CMT W/ CMT RETARDER 15.8#/GAL (16.5BBL), 1.15 YIELD, WR 5.0GAL/SK, FROM 6100'-5878', TOOH TO 2200', CIRCULATE WELL, PRESSURE WELL UP TO 1000PSI, TOOH AND CHECK DP, TIH OPEN ENDED, MONITOR WELL FOR MIGRATION, CEMENT WITH 90SKS OF THIXSO CMT (21.5BBL), 15.2#/GAL, 1.32 YIELD, WR 5.9GAL/SK, FROM 2200'-2000', TOOH WITH 10 JTS, CIRCULATE WELL, WOC 2 HRS, TAG TOC @ 1895', TOOH TO 800', CIRCULATE WELL, MONITOR WELL FOR MIGRATION, CEMENT WITH 580SKS OF G CMT (119BBL), 1.15 YIELD, WR 5.0GAL/SK, FROM 800'-0', TOOH, TOP OFF WELL, RDMO | |
| 11.0 | 11/28/2022 | 11/29/2022 | CMT WELL TO SURFACE, CMT WITH 30 SKS WITH G CMT, (6BBL) 1.15 YIELD, 5.0GAL/SK, CMT TO SURFACE | |
| 12.0 | 12/9/2022 | 12/9/2022 | EMPIRE 1 WAS CUT AND CAPPED ON 12/9/2022. CUT AT 7' DEPTH. | |