

**Well Name: RANCH I-70 01-70**

API # 0512305156	Surface Legal Location NENE S21 T4N R62W	Field Name WATTENBERG	Permit Number	State CO	Well Configuration Type VERTICAL
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> , 7/1/2022 00:00, P1620CD**

Job Category Abandon	Primary Job Type Abandon Well	Secondary Job Type
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Start Date 7/1/2022	End Date 8/26/2022
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Objective

SUMMARY

Rpt #	Start Date	End Date	24 Hr Summary	REMARKS/ISSUES
1.0	7/22/2022	7/2/2022	MIRU up Swabbco rig #12 & spot in equipment	
2.0	7/25/2022	7/26/2022	RU PUMP LINES & SPOT IN BOP & DRILLING EQUIPMENT. NIPPLE UP BOP's SPOT IN PIPE WRANGLER & RACKS. UNLOAD DRILL COLLARS & MEASURE BHA EQUIPMENT. PRESSURE TEST EQUIPMENT. SDFN	
3.0	7/28/2022	7/28/2022	HELD JSA - SAFETY MEETING, WAITED ON DOZER & FORKLIFT AFTER FRAC TOOK IT WITHOUT LETTING ANYONE KNOW. SWAP OUT SWIVELS. PU 5" DC & BIT & STARTED DRILLING @ SURFACE & DRILLED TO 16' & FELL OUT CEMENT & GOT CIRCULATION ON OUTSIDE OF SCSG. RAN ON IN & TAGGED UP @ 138', POOH. RIH W/ 2 7/8" PH6 & TAG UP SAME SPOT. POOH. RAN BACK IN W/ EUE TBG & CEMENT W/ 1.15 YIELD, 15.8#, 3% CC CLASS G CEMENT. PUMPED 70SKS PULLED 2-JTS & PUMPED 20 SKS, & PULLED 2 JTS & PUP SUB & PUMPED 20SKS AGAIN. WASH UP EQUIPMENT & CLEANED OUT WELLHEAD & SHUT IN WELL & SDFN	
4.0	7/29/2022	7/30/2022	HELD SAFETY MEETING & CHECK PRESSURE & HAD 0 psi. R.U. SWIVEL, D.C., & 9 7/8" BIT. TAGGED @ 17' & PICKED UP & PRESS TESTED TO 250 psi & TEST WAS GOOD. DRILLED FROM 17' TO 22' & STARTED LEAKING ON OUTSIDE OF SCSG. SHUT DOWN DRILLING & PULLED COLLAR OUT OF HOLE. CALL FOR CEMENT. LAY DOWN BHA, D.C., & RIG DOWN SWIVEL. R.U CEMENT EQUIP & PUMP 17 SKS TOTAL & WAIT ON CEMENT TO CURE. RIG UP SWIVEL, D.C. & BIT WHILE WAITING. AFTER 6 HRS DRILLED DOWN TO 31' & PRESSURE TEST & STILL HAD LEAK. LAY DOWN BHA & SWIVEL & RIG DOWN ALL EQUIPMENT & MOVE TO EDGE OF LOCATION. STARTED DIGGING OUT AROUND SCSG.	
5.0	7/30/2022	7/31/2022	HELD JSA - SAFETY MEETING. FINISH DIGGING OUT AROUND SCSG. FOUND HOLES @ 15' TO 18' & HAD SAFETY STAND DOWN UNTIL WE LOCATE SHORE WALLS. WILL HAVE ON LOCATION	
6.0	8/1/2022	8/2/2022	AOL & WAIT ON TRENCH BOX'S, & CRANE. HELD JSA-SAFETY MEETING. BOX'S AOL & WAS UNLOADED. CRANE AOL & RU. INSTALL TRENCH BOX'S. MADE CUT ON PIPE. PREPPED NEW JT & WELD ON TO CUT OFF. PULL BOX'S & BACK FILL HOLE, LAID MAT BOARDS FOR RIG AND BASE BEAM, SPOTTED IN EQUIPMENT. UPDATED JSA, RIGGED UP RIG, RIGGED UP HARD LINE, NU BOP AND ANNULAR BAG, SPOTTED IN PIPE WRANGLER AND PIPE RACKS, LOADED UP DRILL COLLARS ON PIPE RACKS, RIGGED UP POWER SWIVEL, PICKED UP 10 3/4 BIT AND 4 3/4 DRILL COLLAR, TAGGED CEMENT AT 31' BROKE CIRCULATION WITH WATER, PRESSURE TESTED WELL BORE UP TO 250 PSI, HELD GOOD FOR 10 MINUTES, STARTED DRILLING OUT CEMENT	
7.0	8/2/2022	8/3/2022	DAY SHIFT: AOL & HELD JSA- S.M. CREW CHANGE. WELDER AOL & WELDED NIPPLE ON WELLHEAD. CONTINUE TO DRILL DOWN FROM 36' TO 148' & DRILLED OUT OF SOLID CEMENT. HAD SPORADIC STRINGERS DOWN TO 302' & WENT TO 318', & CIRCULATED CLEAN. POOH & CHANGED OUT 9 7/8" BIT TO 7 7/8". RIH W/ BIT & 5- 4 3/4" D.C. & TBG TO SURFACE. NIGHT SHIFT: CREW TRAVEL, SAFETY MEETING, TAGGED AT 338' WITH 5 DRILL COLLARS AND 6 JTS, RIGGED UP POWER SWIVEL, DRILLED OUT 24' AND FELL THROUGH, RAN TUBING DOWN TO 438' AND GOT A GAS BUBBLE, CIRCULATED GAS OUT, RAN TUBING DOWN TO 778', CIRCULATED THE HOLE, CIRCULATED AGAIN AT 1089', RAN 3 MORE JOINTS AND TAGGED SOMETHING AT 1165', CIRCULATED THE JOINT DOWN, ANNULUS VALVES STARTED PLUGGING OFF WITH DEHYDRATED MUD, AFTER FIGHTING IT FOR A COUPLE HOURS GOT GOOD CIRCULATION, PUMPED A BAG OF SAPP DOWN TUBING, CIRCULATED THE HOLE FOR ONE HOUR, RAN 7 MORE JOINTS DOWN TO 1400'.	

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8.0	8/3/2022	8/4/2022	<p>DAY SHIFT: @ 1,400' CONTINUE IN HOLE, AFTER TO CIRC, CONTINUE TO RIH FROM 5 TO 10 JTS AT A TIME &amp; CIRCULATING. GOT TO 2488' &amp; SHUT DOWN TO REPAIR PACKING. CIRC WELL AGAIN &amp; CONTINUE TO RIH 5 TO 10 JTS AT TIME &amp; CIRCULATE. GOT TO 3,045' 1650 HRS &amp; PUMPED FULL BOTTOMS UP CIRCULATION OF 160BBLs. SHIFT CHANGE</p> <p>NIGHT SHIFT: CREW TRAVEL, SAFETY MEETING, CONTINUED RUNNING PIPE IN THE HOLE CIRCULATING FOR 20 MINUTES EVERY 10 JTS AND CIRCULATING BOTTOMS UP EVERY 1000', MADE IN DOWN TO 6259' WITH 197 JTS CIRCULATED THE HOLE FOR ONE HOUR PUMPING 2.5 BPM 9.2# MUD, GETTING GAS ON RETURNS, SHIFT CHANGE.</p>	
9.0	8/4/2022	8/5/2022	<p>DAY SHIFT: AOL &amp; HELD JSA-SAFETY MEETING, SHALE SHAKER WAS DOWN &amp; HAD TO CHANGE TANKS. WELL WAS CIRCULATING BUT PUMP PACKING WAS LEAKING &amp; HAD TO SHUT DOWN &amp; REPAIR PUMP. GOT BACK ON TBG WITH PUMP &amp; COULDN'T GET CIRCULATION. PRESSURED UP TO 2K APPEARED TO BE MOVING. STARTED GETTING DRILLING MUD 30' FROM RIG OUT OF THE GROUND. SHUT DOWN PUMPING. FOUND THICK DEHYDRATED MUD IN WELLHEAD. PUMPED &amp; CLEARED LINES &amp; TRIED CIRC AGAIN &amp; COULDN'T GET CIRC. PULLED 4 JTS &amp; TRIED AGAIN &amp; COULDN'T GET CIRC. PULLED TOTAL OF 15 JTS @ 5,794' &amp; PUMPED 1.5 BPM &amp; WAS GETTING MUD &amp; GAS OUT, BUT NEVER GOOD MUD CIRCULATION AFTER 2 HRS. POOH W/ TBG.</p> <p>NIGHT SHIFT: FINISHED LAYING DOWN TUBING AND DRILL COLLARS, LOADED PH-6 ON TRAILER, LOADED PIPE RACKS WITH 2 7/8 J-55 8 RD PIPE, RAN IN THE HOLE WITH MULE SHOE AND 2 7/8 J-55 PIPE, CIRCULATED THE HOLE AT 383' WITH 12 JTS FOR 2 HOLE VOLUMES, CONTINUED RUNNING PIPE IN THE HOLE AND CIRCULATING BOTTOMS UP EVERY 1500', RAN TUBING DOWN TO 6202' WITH 192 JTS, CIRCULATED THE HOLE FOR 1 HOUR. SHIFT CHANGE.</p>	
10.0	8/5/2022	8/6/2022	<p>AOL &amp; HELD JSA - SAFETY MEETING. WELL WAS CIRCULATING &amp; CONTINUE TO CIRC. CEMENT EQUIPMENT AOL &amp; RIGGED UP CEMENT EQUIP &amp; PUMP 10BBL SPACER &amp; 160 SKS, &amp; 33 bbls OF FLUSH. RIG DOWN CEMENT EQUIP &amp; POOH W/ 12 JTS &amp; 20 STANDS. WAIT 4 HRS &amp; RIH &amp; TAG @ 5,916' POOH TO 1500' ( DURING PROCESS HOSE BLEW A HOLE ON TONGS)( DOWN FOR 1.5HRS) MADE REPAIRS &amp; CONTINUED POOH. RIH W/ 1500' CIRCULATE &amp; HAD TROUBLE WITH MUD RETURNS &amp; HAD TO CIRCULATE WATER TO GET THINED OUT. PUMPED 10BBLs FLUSH &amp; 150 SKS &amp; 7 BBLs OF FLUSH. RIG DOWN CEMENT EQUIPMENT &amp; POOH W/ TBG &amp; SECURE WELL &amp; SDFN</p>	
11.0	8/6/2022	8/7/2022	<p>AOL &amp; HELD JSA- SAFETY MEETING CHECK PRESS &amp; WELL HAD 14 PSI. BLED OFF. RIH &amp; TAGGED CEMENT @ 1,154". RIG UP PUMP &amp; CIRC WELL &amp; STARTED GETTING HEAVY RETURNS AGAIN &amp; GOT TO THICK TO PUMP. SWAP &amp; WENT DOWN CSG &amp; CHANGED BACK TO TBG &amp; ROCKED MUD BACK &amp; FORTH &amp; GOT ENOUGH WATER TO START THINNING MUD. CIRC 70 BBLs, &amp; HAD TO HAUL OFF MUD IN TANK TO HAVE ROOM &amp; STILL HAD MIGRATION. PUMP 100BBLs &amp; CHECKED MIGRATION &amp; IT HAD SLOWED DOWN. LET WELL SET &amp; MONITORED UNTIL TRUCK COMES TO HAUL MORE MUD OFF. &amp; STILL HAD GAS MIGRATION. MANAGEMENT MADE DECISION TO WASH DOWN AGAIN. POOH W/ 2 7/8" EUE &amp; P.U 7 7/8" BIT &amp; BIT SUB, 5- 4 3/4" D.C., &amp; 4 JTS OF PH6 &amp; CLOSED PIPE RAMS, PICKED UP SWIVEL &amp; INSTALLED ON TBG. SECURE WELL SDFN</p>	
12.0	8/7/2022	8/8/2022	<p>AOL &amp; HELD JSA - SAFETY MEETING. PICKED UP JT #5 &amp; CIRCULATED HOLE &amp; CONTINUE TO SWIVEL IN &amp; TAGGED @ 1,140' &amp; WASH DOWN TAGGING STRINGER TO 1178 &amp; TAGGED SOLID CEMENT. DRILLED 5' TO 1183' &amp; WAS SATISFIED THAT WAS SOLID CEMENT. RIG UP PUMP ON TBG &amp; CIRCULATED FORWARD FOR 200 BBLs. RETURNS CLEANED UP, MUD WAS THINNED UP &amp; NO BUBBLES. POOH W/ 2 7/8" PH-6 &amp; BHA &amp; LAID DOWN TOOLS. SWAP OUT TBG TOOLS &amp; RIH W/ 2 7/8" EUE PIPE. TAGGED UP AT 1,183' LAID DOWN 1-JT &amp; PU 8' PUP SUB W/ EOT @ 1,180'. CIRCULATE WELL UNTIL CEMENT EQUIP SHOWED UP. RU CEMENT EQUIP &amp; PUMPED 10 BBLs OF FRESH WATER, 70 SKS OF THIXO CEMENT W/ 1.32 YIELD W/ EST TOC @ .971', &amp; FLUSHED W/ 5.4 BBLs FRESH WATER. POOH &amp; STOOD BACK 16 JTS &amp; LAID REST DOWN. TOPPED WELL OFF &amp; SEEN NO MIGRATION. SHUT IN WELL &amp; SHUT DOWN FOR THE EVENING</p>	

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13.0	8/8/2022	8/9/2022	AOL & HELD JSA-SAFETY MEETING. CHECK PRESSURES ON WELL & WELL WAS ON VACUUM. TOP WELL OFF AGAIN W/ WATER & MONITORED FLUID FOR 30 MINS & DIDN'T SEE ANY MIGRATION. RIH W/ 16 JTS TO 510' & RIG UP PUMP ON TBG & RETURN ON CSG, CIRCULATED UNTIL CEMENT EQUIPMENT ARRIVED. RU CEMENTERS & PUMPED 10 BBLS OF FRESH WATER, & 576sk OF 2% CLASS G CEMENT & 2 1/2 bbls OF FRESH WATER FLUSH. HAD GOOD RETURNS ALL THE TIME DURING PUMP JOB, BUT NEVER GOT CEMENT BACK. POOH W/ TBG & WAIT 4 HRS & RIH & TAG TOC @ 125' WAIT ON CEMENT BULK TRUCK. RU CEMENTERS ON TBG & PUMPED 13 BBLS OF FLUSH. PUMPED 75 SKS OF 2% CLASS G NEAT 15.8# 1.15 YIELD FROM 125' TO SURFACE. POOH W/ 4 JTS & RIG DOWN TBG TOOLS & RIG FLOOR. NIPPLE DOWN BOP STACK & TOPPED WELL OFF W/ CEMENT. RIG DOWN RIG & SUPPORT EQUIPMENT.	
14.0	8/9/2022	8/10/2022	AOL & HELD JSA - SAFETY MEETING. CHECK WELL & CEMENT IS @ SURFACE, & NO GAS MIGRATION. CONTINUE TO LOAD OUT EQUIPMENT & WINCH OFF LOCATION. P&A COMPLETE & READY FOR CUT & CAP.	
15.0	8/26/2022	8/26/2022	RANCH I-70 1-70 WAS CUT AND CAPPED ON 8/26/2022. CUT DEPTH AT 6'8"	