



# Well History

**Well Name: Hungenberg 22-16**

API 05123236590000		Surface Legal Location SENW 16 6N 65W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,750.00	Original KB Elevation (ft) 4,760.00	KB-Ground Distance (ft) 10.00	Spud Date 3/10/2006 00:00	Rig Release Date	On Production Date 4/20/2006	Abandon Date 11/23/2020			

**Job**

**Drilling - original, 3/10/2006 00:00**

Job Category Drilling	Primary Job Type Drilling - original	Start Date 3/10/2006	End Date 3/14/2006	Objective Drill a new Codell well
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**Daily Operations**

Start Date	Summary	End Date
3/10/2006	Ensign Rig #1: MIRU. Drill rat and mouse holes and spud 12 1/4" surface hole at 2 PM. TD 12 1/4" surface hole at 496' at 6:15 PM. Cond & circl 15 minutes. Cond & circl 1/2 hour and TOO. Rig up casers. Ran 11 joints of new, 24#, J-55, 8 5/8" surface casing to 477'. Set at 487'. Rig up Cementer's Well Service and pump 270 sacks of Class G cement +3%CaCl2 + 1/4# flake per sack. Plug down at 11:45 PM. Wait on cement	
3/11/2006	Ensign Rig #1: , nipple up BOP, and trip in hole with 7 7/8" bit. Test BOP and began drilling cement and plug with 7 7/8" bit at 8:30 AM.	
3/12/2006	Ensign Rig #1: At 4056' and drilling 7 7/8" hole at 6 AM. Last survey at 3430': .44 degrees.	
3/13/2006	Ensign Rig #1: At 6083' and drilling 7 7/8" hole at 6 AM. Last survey at 5769': .33 degrees.	
3/13/2006	MIRU Phoenix Surveys Inc. Ran Comp Density/Comp Neutron/Dual Induction log finding a LTD of 7348' KB, DTD of 7365'. RU casing crew and ran Weatherford Auto Fill Guide Shoe, 14.30' shoe joint, 172 joints of 10.5 #/ft, 8RD, M-65, 4 1/2" casing and 1 joint of 11.6 #/ft, M-80 on top of casing string for a total of 174 joints. Casing set @ 7346.96'. PBTD @ 7332.66'. Circulated hole once casing was set for 30 minutes prior to cementing. RU HES and pumped 20 bbls of clayfix water, 24 bbl mud flush, 20 bbls clayfix water and 6 bbls (20 sx) of 50/50 Poz, 295 sx (170 bbls) Premium Lite Cement, 145 sx 50/50 Poz (43 bbls), shut-down, wash up cement pump & lines to the pit, released wiper plug and displaced with 116.5 bbls treated water. Plug down OK @ 6:30 a.m. Bumped plug with 2500 psi @ 2.5 bpm, shut down - watched psi stabilize at 2500 psi, released psi to BJS inventory tanks and tested plug. Released rig @ 7:30 a.m. Estimated TOC @ 3200', approximately 500' above top of Parkman Fm.	
3/14/2006	Ensign Rig #1: TD At 7362 with 7 7/8" hole at 12:15 PM on 3/13/2006. Last survey at 7362': 1.8 degrees. Short Trip, LDDP, Log Hole Run Production Casing & Cement. Detailed Report to follow.	
3/30/2006	MIRU BJ Services. Performed a New Codell stimulation using 2595 bbls of Vistar 20# fluid system, 217320 of 20/40 white sand and 8000 lbs of Super LC 20/40 resin coated proppant. Codell perfs @ 7122-7132' (30 Shots). Pumped 1 - 4 ppg stages of 20/40 white sand, 4 ppg Super LC proppant, flush well to .5 bbl short of top Codell perforation (113.1 bbls), shut down, record ISDP = 3719 psi. RD BJ Services, turn well on to flowback. Transfer 20 bbls from hydration unit to flowback tank. MTP = 4069 psi, ATP = 3741 psi, AIR = 16.3 bpm. Pressure response was flat to slightly positive for entire treatment. Operationally the treatment went well. Total fluid to Recover = 2708 bbls. Turn well on to flowback on a 20/64" choke until bottoms up then on a 12/64" for the remainder of flowback.	

**Initial Completion, 3/14/2006 00:00**

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 3/14/2006	End Date 3/30/2006	Objective Produce a new Codell well
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**Daily Operations**

Start Date	Summary	End Date

**Abandon Well LOE, 11/20/2020 06:00**

Job Category Abandon	Primary Job Type Abandon Well LOE	Start Date 11/20/2020	End Date 11/23/2020	Objective PLUG AND ABANDONMENT
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**Daily Operations**

Start Date	Summary	End Date
11/20/2020	CREW TRAVEL TO LOCATION. SAFETY MEETING. SITP 800 PSI, SICP 700 PSI, SIBH 0 PSI. SPOTTED IN EQUIPMENT, R/U RIG 312, R/U PUMP AND LINES. BLEW TBG AND CSG DOWN TO 45 PSI TO RIG TANK, BROKE CIRCULATION WITH 95 BBLs, ROLLED HOLE FOR 1.5 HRS TO ELIMINATE ALL OIL AND GAS FROM WELLBORE. N/D PRODUCTION TREE, N/U AND FUNCTION TESTED BOP STACK, R/U RIG FLOOR AND HANDLING TOOLS. UNLANDED TBG, TOO. WITH 26 STANDS (52 JTS), LAYED DOWN REST OF TBG ONTO TRAILER. R/U WIRELINE, RIH WITH 4.5" GAUGE RING TO 7100', POOH, RIH WITH 4.5" CIBP AND SET @ 7072', GOOD SET, POOH, RIH AND DUMP BAILED 2 SXS CEMENT ON TOP OF PLUG, POOH. FILLED CSG WITH 5 BBLs AND PRESSURED UP TO 1000 PSI, HELD FOR 10 MINUTES WITH 0 PSI LOSS, GOOD TEST. RIH WITH 4.5" CIBP AND SET @ 6791', GOOD SET, POOH, RIH AND DUMP BAILED 2 SXS CEMENT ON TOP OF PLUG, POOH, RIH WITH 4.5" CIBP AND SET @ 3000', GOOD SET, POOH, RIH AND DUMP BAILED 2 SXS CEMENT ON TOP OF PLUG, POOH. RIH WITH CBL AND LOGGED FROM 1800' TO SURFACE, LOGGED SHOWED FREE CSG TO SURFACE, RIH WITH 4.5" JET CUTTER AND CUT CSG @ 1600', GOOD CUT, POOH, R/D WIRELINE. BROKE CIRCULATION WITH 15 BBLs, ROLLED HOLE FOR 1.5 HRS TO ENSURE ALL OIL AND GAS IS OUT OF WELLBORE. SECURED WELL AND SHUT IN FOR THE NIGHT. CREW TRAVEL HOME.	11/20/2020



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## Daily Operations

Start Date	Summary	End Date
11/23/2020	CREW TRAVEL TO LOCATION. SAFETY MEETING. SICP 0 PSI, SIBH 0 PSI. R/D RIG FLOOR AND HANDLING TOOLS, N/D BOP STACK, UNLANDED CSG, STRIPPED ON 8 5/8" X-OVER, N/U BOP STACK, R/U RIG FLOOR AND 4.5" HANDLING TOOLS. LAYED DOWN CSG ONTO TRAILER (TOTAL OF 37 JTS CSG LAYED DOWN). TIH WITH 26 STANDS (52 JTS) TO PLACE EOT @ 1650'. BROKE CIRCULATION WITH 10 BBLS, ROLLED HOLE FOR 1 HR TO ELIMINATE ALL OIL AND GAS FROM WELLBORE, SHUT DOWN PUMPS, WELL STATIC. R/U CEMENT, PRESSURE TESTED LINES TO 2000 PSI, GOOD TEST. PUMPED 5 BBLS FW FOLLOWED BY 100 SXS (20.4 BBLS) 15.8# 'G' CEMENT, DISPLACED TBG WITH 5.4 BBLS TO BALANCE PLUG OUT PLACING CEMENT FROM 1650'-1400', MAINTAINED GOOD CIRCULATION THROUGH OUT JOB,R/D CEMENT. LAYED DOWN 30 JTS TO PLACE EOT @ 687' JT #22. R/U CEMENT, PUMPED 5 BBLS FW FOLLOWED BY 249 SXS (51 BBLS) 15.8# 'G' CEMENT TO BRING CEMENT TO SURFACE. LAYED DOWN REST OF TBG ONTO TRAILER. R/D RIG FLOOR AND HANDLING TOOLS, N/D BOP STACK. TOP CAPPED WELL WITH 15 SXS (3 BBLS) 15.8# 'G' CEMENT, MAINTAINED GOOD CIRCULATION THROUGH OUT JOB, R/D CEMENT. R/D RIG 312, RACKED OUT PUMP AND LINES. CLEANED UP LOCATION AND SECURED WELL, PLACED FENCING BACK AROUND WELL. MOVED EQUIPMENT OFF LOCATION. WELL IS P&A'D. DUG UP WELL. CUT AND CAPPED WELL 6' BELOW GROUND LEVEL AND WELDED ON MARKER PLATE. BURIED WELL.TURNED OVER TO THE CONSTRUCTION DEPT. THIS IS THE FINAL REPORT.	11/23/2020