



## Well History

**Well Name: State 6524 21-28**

API 05123208770000		Surface Legal Location NENW 28 6N 63W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,720.00	Original KB Elevation (ft) 4,730.00	KB-Ground Distance (ft) 10.00	Spud Date 5/8/2003 18:00	Rig Release Date 5/12/2003 00:00	On Production Date 7/11/2003	Abandon Date			

**Job**

**Drilling - original, 5/8/2003 00:00**

Job Category Drilling	Primary Job Type Drilling - original	Start Date 5/8/2003	End Date 5/12/2003	Objective Drill a Codell Well
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**Daily Operations**

Start Date	Summary	End Date
5/8/2003	Caza Rig #1: MIRU. Drill rat and mouse holes and spud 12 1/4" hole at 6 PM. TD 12 1/4" hole at 376' at 10 PM. Survey at 223' was 1/2 degree. Circulate hole and short trip.	
5/9/2003	Caza Rig #1: Wait on cement, trip in hole, and test BOP at 2 PM. Drill 100 feet of cement and plug and began drilling 7 7/8" open hole at 7 PM.	
5/9/2003	Caza Rig #1: Condition hole and begin trip out at 12:30 AM. Began running casing at 1 AM and ran 8 joints of new, 24#, J-55, 8 5/8" casing to 352'. Set at 362'. Rig up Cementer's Well Service and pump 225 sacks of Class G cement + 3% CaCl2 + 1/4# flake/sack. Plug down at 4:15 AM. Presently waiting on cement.	
5/10/2003	Caza Rig #1: At 2435' and drilling 7 7/8" hole. Last survey: 1/2 degree at 1933'.	
5/11/2003	Caza Rig #1: At 5188' and drilling 7 7/8" hole. Last survey: 3 degrees at 5188'.	
5/12/2003	Caza Rig #1: At 6686' and drilling 7 7/8" hole. Last survey: 3/4 degree at 6441'.	
5/12/2003	Caza Rig #1: TD 7 7/8" hole at 6974' at 10:15 AM. Short trip, condition mud and circulate hole. Began tripping out and laying down drill string at 1:15 PM. Out of the hole. MIRU PSI and ran GR/Comp Density/Comp Neutron/Dual Induction finding a TD of 6988'. RU casing crew. Ran Topco Auto Fill Guide Shoe, 14' shoe joint, 161 joints of 10.5 #/ft, M-65, 4 1/2" casing and 1 joint of 11.6 #/ft, N-80 on top of casing string. Casing set @ 6942.05'. RU Halliburton and cemented using 12 bbl mud flush, 10 bbl spacer, 6 bbl (20 sx) 50/50 poz, 159 bbl (220 sx) of HLC + additives and 39 bbl (140 sx) of 50/50 poz G + additives. Released wiper plug and displaced with 110 bbl treated water. Plug down OK @ 2:06 pm. ECT @ 3200' KB. Released rig @ 3:00 pm.	

**Initial Completion, 5/20/2003 00:00**

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 5/20/2003	End Date 5/20/2003	Objective Complete a Codell Well
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**Daily Operations**

Start Date	Summary	End Date
5/20/2003	MIRU BJ Services. Frac'd the Codell with 2688 bbl of Vistar 20# fluid system, 217960# of 20/40 mesh white sand and 8000# of 20/40 mesh Super LC resin coated sand. Breakdown @ 3605 psig; MTP - 3575 psig; ATP - 3483 psig; AIR - 16.5 bpm; 4 ppa sand; ISIP - 3575 psig; Flushed with 107 bbl. Open well to tank on 12/64 choke.	

**Workover, 8/19/2003 00:00**

Job Category Completion/Workover	Primary Job Type Workover	Start Date 8/19/2003	End Date 8/22/2003	Objective
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**Daily Operations**

Start Date	Summary	End Date
8/19/2003	MIRV key energy service rig 30, kill well, NU wellhead & BOP. Tally in hole with NCSN 221jts, Tag sand at 6775. RU to circ. Clean out sand from 6775 to 6920. Land tubing with NCSN 220jts of 2 3/8 + 8' sub at 6769kb. ND BOP, Flange up wellhead, SWIFN	
8/20/2003	Road rig to loc. MIRV. NU requisite swab equip. CKWP blow/vac. Drop new PCS bumper spring. RIH w/sinker bar. Seat bumper spring. Swab well. SFL at 1810' +G.C., FFL at 5270' +V.G.C., Rec. 63 BBLS TTL fluid. FP Blow/120. SI Well.	
8/21/2003	CKWP 740/620. Put well down line. Quickly died down to LP. By-pass sep, cont. blow down well. Swab well. SFL at 1440'. Stand by for H20 to be hauled. Unload well. Went to gas. Drop mini "L" plunger, 210/300. Let plunger fall 1 hr, 380/420. Attempt to cycle plunger. Plunger did not surf. Cont swab well. FFL scat., Rec. 75 BBLS TTL fluid, FP blow/300. SI Well.	
8/22/2003	CKWP. 1060/960. Put well down line. Died down to LP. Back off press on back press valve. Plunger surf 1 hr 2 min, 300/840. Excessive fluid aft plunger. Let plunger fall, 380/920 (1hr). Attempt to cycle plunger. Plunger surf 54 min. Went to gas. Drop plunger. FP 520/660. Rec 12 BBLS oil. 6 BBLS H20. ND swab equip. RDMO	

**Recompletion, 4/17/2012 06:00**

Job Category Completion/Workover	Primary Job Type Recompletion	Start Date 4/17/2012	End Date 4/20/2012	Objective Annular fill, Prep Codell Refrac/ Niobrara Recomplete
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**Daily Operations**

Start Date	Summary	End Date
4/17/2012	STP 350 psi, SCP 300 psi, on blow down through production equipment, SSCP 0 psi, MIRU Bayou rig #004, blew well down to rig tank, control well w/40 bbls Claytreat/Biocide water, ND WH, NU BOP, PU tag jts, TIH w/ 3 jts, tagged @ 6,822.58' w/3, LD tag jts, RU Pick Testers, POOH w/production tbg to derrick testing to 6000 psi, all jts tested good, RD tester, (POOH w/ 219 jts 2 3/8" J-55 EUE 8rd tbg, 1-8' subs, sn/nc, tbg was landed at 6,738.58' KB), tag depth of 6,822.58' KB, PU RMOR's 3 7/8" blade git - 4 1/2" csg scraper, TIH w/production tbg, circulated down to 6,942.61' KB (PBSD) and tools w/227 jts, rolled hole clean, POOH w/tbg to derrick, LD tools, PU RMOR's 4 1/2" WLTC RBP, TIH w/production tbg, set RBP at 6,698.90' KB and tools w/218 jts, LD 1 jt, circulated oil and gas out, pressure tested csg/RBP to 2000 psi, test good, POOH w/20 jts to derrick, spotted 2 sks sand across RBP isolate well, prepare for next days operations, SDFN.	4/17/2012
4/18/2012	SCP 0, SSCP 0 psi, finished TOOH w/ tubing, ND BOP, remove tbg head, install PDC's 4 1/2" 5K frac valve, pressured tested csg/RBP to 5000 psi using Pick Testers, held 20 minutes, test good, released tester, removed frac valve, un-pack csg head, un-land csg (80 K), NU annular flanges, TIH picking up tallying WS #315 1.660" 3.02# N-80 CSHD workstring, tagged original cmt top at 3,009.15' KB w/ 6' in on jt 98, LD jt 98, RU circulation equipment on jt 97, break circulation and conditioned hole for 5 hours @ 3,003.13' w/97 jts, LD 5 jts, isolate well, prepare for next days operations, SDFN.	4/18/2012





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## Daily Operations

Start Date	Summary	End Date
5/9/2012	MIRU Clark Swabbing, RIH w/swab, STP 800 psi, SCP 1650 psi, SFL n/a , recovered n/a bbls, FFL n/a, ETP n/a psi, ECP n/a psi, isolate well, SDFD	5/9/2012