



Well History

Well Name: Guttersen 43-6

API 05123261640000		Surface Legal Location NESE 6 3N 63W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,840.00	Original KB Elevation (ft) 4,850.00	KB-Ground Distance (ft) 10.00	Spud Date 8/27/2007 00:00	Rig Release Date 9/26/2007 00:00	On Production Date 11/7/2007	Abandon Date			

Daily Operations

Start Date	Summary	End Date
9/19/2007	MIRU Nuex Wireline. Ran GR/VDL/CBL log finding PBTD @ 7024" and Cement Top @ 850' on lead and 5100 on tail.. Acceptable cement bond on tail slurry, poor bond on filler slurry. Perforated the Codell formation from 6856-6864' (2 spf, 11 gram charges, 0.34" entry holes, and 13.59" penetration), 16 holes total. Perforated the Niobrara formation from 6652-6660 (1 spf, 3 1/8 slick gun, 21 gram Hero Charges, .39" entry hole, 30.92" penetration) 8 shots. Prepare well for Codell / Niobrara Limited entry stimulation. Daily Cost \$4235.00 Cost to Date \$254,753.00	
9/26/2007	MIRU BJ Services. Codell /Niobrara (previous job on 9-21-07 was cut short due to equipment problems, 120K sand was pumped), Performed a Limited Entry Codell/Niobrara stimulation using 2977 bbls of Vistar 20# fluid system, 338320 lbs of 20/40 white sand and 16140 lbs of Super LC 20/40 resin coated proppant. Niobrara perfs @ 6652-6660' (8 Shots) & Codell perfs @ 6856-6864' (16 Shots). Hole loaded w/15 bbls. Breakdown at 3843 psi @ 4.9 bpm, Dropped 24 bio-ball sealers. Seen slight ball action on Niobrara perfs and no other pressure responses, shut down, allowed balls to drop for approximately 15 minutes and proceeded remainder of treatment. Pumped 1904 bbls of Slickwater pad. Pumped 1 - 4 ppg stages of 20/40 white sand, 4 ppg Super LC proppant, flush well to top Niobrara perforation (105.47 bbls), shut down, record ISDP = 3690 psi, RD BJ Services, turn well on to flowback. MTP = 4948 psi, ATP = 4775 psi, AIR = 47.6 bpm. Operationally treatment was good. Pressure response was flat to negative during entire treatment, Well turned on for flowback on a 14/64" choke. Frac via 4 1/2" casing. Daily Cost \$147,200.00 Cost to Date \$401,953.00	

Tubing Repair, 1/29/2008 00:00

Job Category Completion/Workover	Primary Job Type Tubing Repair	Start Date 1/29/2008	End Date 1/30/2008	Objective Install tubing in Codell well
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Daily Operations

Start Date	Summary	End Date
1/29/2008	SCP 50#, MIR, RU rig, pump & tank, blow well down & control W/60 bbls of 2% KCL, ND 4 1/2 frac valve, NU WH & BOP, PU nc/sn & new 2 3/8 4.7# J-55 EUE tubing talling, tag @6871.26' W/223 jts, lay down 2 jts, SWI, SDFN. Daily Cost \$31950 Cost To Date \$433903	
1/30/2008	SCP 120# STP 200#, RU to circulate, clean out to 7046.66' W/228 jts + 15', roll hole clean, lay down tag jts, ND BOP, NU WH, land well @6846' W/222 jts of 2 3/8 4.7# J-55 EUE tubing, drop 2 3/8 seated full bore standing valve & chase to bottom W/2 3/8 broach, tubing broached good, SWI, clean up loc., RD rig, pump & tank, move rig off, FINAL REPORT.. Daily Cost \$5350 Cost To Date \$439253	

Refrac/Recomplete, 6/19/2012 00:00

Job Category Completion/Workover	Primary Job Type Refrac/Recomplete	Start Date 6/19/2012	End Date	Objective Refrac Codell and Niobrara
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Daily Operations

Start Date	Summary	End Date
6/19/2012	ITP-450, ICP-500, ISCP-0. MIRU Basic 1548. RU return line to production equipment and blow well down to RT. Control well w/50 bbls of 2% claytreat/biocide water. ND production equipment and NU BOP. PU 5 tag jts. no fill tagged w/227 jts.. LD 5 tag jts.. POOH and tally 222 jts. of 2 3/8" 4.7# J-55 8 rd. prod. tbg. to the derrick. ND BOP and swap 3K well head w/5K well head. NU BOP and shut in and secure well for the night.	6/19/2012
6/20/2012	No tubing in the hole, ICP-50. Blow down to RT and pumped 15 bbls of 2% claytreat/biocide water. MIRU Pick Testers. PU 3 7/8" blade bit and casing scraper dressed for 4 1/2" casing. TIH and hydrotest to 6,000 psi. 222 jts. of 2 3/8" 4.7# J-55 EUE 8 rd. prod. tbg.. EOT @ 6,858.45'. All jts. tested good. RD Pick testers. LD 8 jts. and POOH to the derrick 214 jts.. LD bit and scraper. PU 4 1/2" WLTC RBP. TIH w/214 jts. setting RBP @ 6,604.84' w/214 jts., tools and KB. LD 1 jt.. RU circ. equip.. Broke circulation and rolled hole clean of oil and gas. RD circ. equip. and Install 5K tubing mandril. RU Pick testers and tested casing to 5,000 psi. for 15 min. Casing held pressure. RD Pick Testers. Removed mandril and PU 1 jt.. Latched onto and released RBP. POOH to the ground 214 jts.. Leaving 222 jts. on the ground. Swap out 5K well head and install original 3K well head. Shut in well and secure for the night.	6/20/2012
6/21/2012	SCP 0 psi, SSCP 0 psi, open well, MIRU Superior Well Service, RIH w/3 1/8" slickgun, correlated cased/open logs getting on correct depth, re-perforated Codell 6,855'-6,863', 3 spf (24 new holes), 120 degree phasing, 19 gram charges, .41" entry holes w/21.28" penetration, all shots fired, RD e-line. RU Pick Testers, PU RMOR's 4 1/2" AS1X 10K Arrow set PKR, TIH picking up tallying WS308 2 7/8" workstring testing to 8000 psi, RD tester, set PKR in BOP's at 6,767.24' KB (87.76' above the Codell) and tools w/197 jts 2 7/8" N-80 plus 10 jts 2 3/8" N-80 , install HES 3 1/2" 10K frac valve, load backside and test csg/PKR to 500 psi, test good, load and pump down tbg at 2000 psi, had no communication on backside, isolate well, RDMO.	6/21/2012

