



## Well History

Well Name: **Bauer 21-4**

API 05123217880000		Surface Legal Location NENW 4 5N 64W		Field Name Wattenberg		State CO		Well Configuration Type Vertical					
Ground Elevation (ft) 4,627.00		Original KB Elevation (ft) 4,639.00		KB-Ground Distance (ft) 12.00		Spud Date 2/13/2004 00:00		Rig Release Date 2/17/2004 00:00		On Production Date 2/25/2004		Abandon Date	

### Job

#### Drilling - original, 2/13/2004 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 2/13/2004	End Date 2/13/2004	Objective Codell New Drill
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#### Daily Operations

Start Date	Summary	End Date
2/12/2004		2/12/2004
2/13/2004		2/13/2004
2/14/2004		2/14/2004
2/15/2004		2/15/2004
2/16/2004		2/16/2004
2/17/2004		2/17/2004
2/18/2004		2/18/2004

#### Initial Completion, 2/14/2004 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 2/14/2004	End Date 2/17/2004	Objective Codell New Drill
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#### Daily Operations

Start Date	Summary	End Date
2/20/2004	MIRU Action rig #4. Install 5k WH. SIFN.	2/20/2004
2/23/2004	Run CBL, GR, CCL. TIH w/ new 2 3/8" J-55 tbg, 3 7/8" bit, 4 1/2" scraper. Circ hole w/ clean 2% KCl. Pressure test csg to 5K for 15 mins, held. POOH. SDFN.	2/23/2004
2/24/2004	NU BOP, Perf Codell w/ ADI WL, 6838 - 50, 4 SPF, 120 degree phasing, .42" entry holes w/ 3 1/8" slick guns. RD ADI. TIH w/ 2 3/8" tbg. ND BOP. Land tbg. Flange up WH. RDMO.	2/24/2004

#### Recompletion, 10/12/2004 00:00

Job Category Completion/Workover	Primary Job Type Recompletion	Start Date 10/12/2004	End Date	Objective Niobrara recompletion
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#### Daily Operations

Start Date	Summary	End Date
10/12/2004	MIRU KEY RIG # 104. BLOW WELL DOWN. ND WELLHEAD. NU BOP. TAG FILL @ 6870'. POOH, CODELL PERFS 6838-50'. PBTD 7075'. SIFN	10/12/2004
10/13/2004	TIH WITH BAILER. BAIL SAND TO 6952'. POOH. LD BAILER. TIH W/ BIT & SCRAPER TO PBTD. POOH LAYING DOWN TBG. ND BOP. INSTALL FRAC VALVE. SIFN.	10/13/2004
10/14/2004	MIRU E-LINE. SET COMPOSITE PLUG @ 6800'. TEST PLUG TO 5K. PERFORATE NIOBRARA. 6744-55' 6656-76' 6546-56' 4 SPF 60 DEGREE PHASE .42" ENTRY HOLES WITH 3 1/8" SLICK GUNS.	10/14/2004
10/18/2004	MIRU HALIBURTON FOR NIOBRARA FRAC. FRAC WITH 238,640# 20/40 OTTOWA WHITE SAND, 12,000# 12/20 ACFRAC BLACK, 1667 BBLS FR PAD, 144 BBLS X-LINK PAD, 2,445 BBLS X-LINK TREATMENT FLUID. AVERAGES; PRESSURE; 4412psi, RATE- 50.3 BBLS/MIN VIS- 23.7 CP. ISIP 3604psi. RDMO FLOWBACK WELL	10/18/2004
10/20/2004	WELL FLOWED BACK 972 BBLS IN 39 HRS. TURN WELL TO SALES.	10/20/2004
10/28/2004	MIRU KEY RIG #104. KILL WELL W/ 2% KCL. REMOVE FRAC VALVE. NU BOP. TIH W/ BIT & TBG. TAG FILL @ 6693'. C/O SAND TO PLUG @ 6800'. DRILL PLUG. CHASE TO 6907'. POOH. SIFN	10/28/2004
10/29/2004	POOH. LD BIT. TIH W/ SN NC & TBG. ND BOP. LAND TBG, NU WELLHEAD. SWAB WELL. IFL 1700'. 6 RUNS. WELL FLOWING. TURN DOWN SALES LINE. SIFN.	10/29/2004
10/30/2004	RDMO KEY 104 JTS 2 3/8" J-55 EUE TBG LANDED @ 6525'KB.	TBG DETAIL; SN NC 197 10/30/2004