



## Well History

Well Name: Pat and Mike 2-9

API 05123142690000		Surface Legal Location NWNE 9 5N 65W	Field Name Wattenberg		State CO		Well Configuration Type Vertical		
Ground Elevation (ft) 4,628.00	Original KB Elevation (ft) 4,641.00	KB-Ground Distance (ft) 13.00	Spud Date 4/22/1989 00:00		Rig Release Date 4/27/1989 00:00		On Production Date 6/15/1989		Abandon Date

### Wellbore Integrity, 6/25/2015 06:00

Job Category Completion/Workover	Primary Job Type Wellbore Integrity	Start Date 6/25/2015	End Date 6/1/2016	Objective Test Tubing, Set RBP, Install 5K WH. RTP.
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### Daily Operations

Start Date	Summary	End Date
6/25/2015	STP 800 psi, SCP 800 psi, not on blow down through production equipment, SSCP 0 psi, MIRU Ensign 313, held safety meeting, RU rig and all equipment, pressure tested hard lines, blew well down to rig tank, control well w/60 bbls Claytreat/Biocide water, function tested BOP's, ND WH, NU BOP, PU tag jts, TIH w/ 10 jts, tagged @ 6,982.74', LD tag jts, POOH w/production tbg to derrick w/ 212 jts 2 3/8" J-55 EUE 8rd tbg, no subs, sn/nc, tbg was landed at 6,687.80' KB, held safety meeting, RU Pick Testers, PU STS bit and scraper dressed for 4 1/2" 15.1# casing, TIH w/production tbg testing to 6000 psi, found no js w/ hole, no bent, no bad pin, no crimped jts, all jts tested good, RD tester, RU circulation equipment, rolled hole clean, LD circulation equipment, LD 2 jts, TOOH standing back w/210 jts tubing to derrick, SI and isolate well, shut and locked blind rams on BOP's, drained lines and pump, prepared for next day operations, SDFN.	6/25/2015
6/26/2015	SCP 0 psi, SSCP 0 psi, held safety meeting, opened well to rig tank, held safety meeting, PU STS's 4 1/2" WLTC RBP, TIH w/production tbg, set RBP at 6,652.95' KB and tools w/ 211 jts ( 55.05' above top of Niobrara formation), LD 1 jt, circulated oil and gas out, pressure tested csg/RBP to 2000 psi, test good, POOH LD w/4 jts spotted 2 sks of sand, LD 5 more jts onto ground, LD a total of 11 jts onto ground, Landed well w/ 201 jts 2 3/8" tubing @ 6,340.79'. installed 5K WH. SI and isolate well, drained lines and pump, racked pump and tank, RDMOL  Note: The 11 jts of tubing will be FMT'd to PDC inventory and placed on good 2 3/8" rack in ATP's yard.	6/26/2015
5/31/2016	MIRU ENSIGN 354. SPOT IN EQUIPMENT. HELD SAFETY MEETING. RU. RU PUMP AND TANK. ITP 0-PSI. ICP 0-PSI. ISCP 0-PSI. OPEN WELL. ND WH. NU BOPS. PU 10 JTS AND TAGGED FILL AT 6640'. RU CIRCULATING EQUIPMENT. LOAD TBG/CSG AND ESTABLISH CIRCULATION. CLEAN OUT SAND FROM 6640' TO RBP AT 6655'. CIRCULATE WELL CLEAN. DROP STANDING VALVE AND PRESSURE TESTED TUBING TO 2000# PSI. HELD PRESSURE GOOD FOR 10 MINUTES. BLEED OFF PRESSURE. RU LUBRICATOR AND FISH OUT STANDING VALVE. RELEASE RBP AND TOOH STANDING BACK 211 JTS 2 3/8", LD RBP. PU 3 5/8" CONE BIT/ BIT SUB AND TIH W/ 211 JTS. HANG TUBING ABOVE THE PERFS FOR THE NIGHT. SWI. SDFN. CREW TO YARD.	5/31/2016



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### Daily Operations

Start Date	Summary	End Date
6/1/2016	<p>CREW ON LOCATION. HELD SAFETY MEETING. ITP 0-PSI. ICP 0-PSI. ISCP 0-PSI. OPEN WELL. PU 9 JTS AND TAGGED CIBP AT 6980' W/220 JTS RU POWERSWIVEL. RU CIRCULATING EQUIPMENT. LOAD TBG/CSG AND ESTABLISH CIRCULATION. DRILL OUT CIBP AND PUSHED DOWN TO 7145' KB W/ 226 JTS. CIRCULATE WELL CLEAN. RD POWERSWIVEL. LD 6 JTS AND TOOH STANDING 220 JTS, LD CONE BIT. PU SNNC AND TIH W/ 220 JTS. LAND WELL AT 7010.93' KB. RU LUBRICATOR AND BROACH TUBING TO SN W/ 1.90' BROACH. RD LUBRICATOR. ND BOPS. NU WH. SWABB WELL BACK. MADE 8 RUNS AND RECOVERED 60 BBLS FLUID. SWI. SDFN. CREW TO YARD. RACK UP PUMP AND TANK. RDMO. CLEAN UP LOCATION. CREW TO YARD.</p> <p>LANDED TUBING AS FOLLOWS;</p> <p>KB= 10.00' 2- 10' SUBS= 20.00' 220 JTS 2 3/8", 4.7#, J-55, 8RD TBG= 6980.93' TOTAL LANDED DEPTH= 7010.93' KB.</p> <p>NOTE: FMTD 19 JTS 2 3/8", 4.7#, J-55, 8RD TBG FROM PDC INVENTORY/ATP YARD TO WELL</p>	6/1/2016