



Well History

Well Name: Wells Ranch 23-10

API 05123259130000		Surface Legal Location NESW 10 5N 63W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,680.00	Original KB Elevation (ft) 4,691.00	KB-Ground Distance (ft) 11.00	Spud Date 8/28/2008 18:00	Rig Release Date 8/31/2008 19:30	On Production Date 11/7/2008	Abandon Date 1/25/2019			

Job**Drilling - original, 8/28/2008 06:00**

Job Category Drilling	Primary Job Type Drilling - original	Start Date 8/28/2008	End Date 8/31/2008	Objective Drill and complete new J Sand well
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Daily Operations

Start Date	Summary	End Date
8/28/2008	Ensign Rig 31 spud at 18:00 hours 28-Aug-08. Drilled 12-1/4" surface hole to 466'. Ran 10 joints 8-5/8", 24#/ft casing (446') set at 457' KB. Cemented by Cementers Energy with 350 sacks Class "G" + 3% CaCl2 + 1/4# celloflake/sk (15.2 ppg, 1.18 ft3/sk). Plug down at 00:30 hours 29-Aug-08. Circulated cement. Currently NU BOP.	8/29/2008
8/29/2008	NU BOP. Tested BOP and casing to 420 psig. Currently drilling at 4627' (4161'). 7-7/8" Bit #1:M519. Drilling with water. Defls: 0.40 at 1463', 1.10 at 2596', 0.40 at 3231', 1.10 at 3739', 2.30 at 4214'. BHA: Bit, motor, 10 - 6" DC's and 6 joints HWDP (522').	8/30/2008
8/30/2008	Drilled to 6790' TD (2163'). 7-7/8" Bit #1:M519. Mud wt. 9.4; visc. 40. Defls: 1.10 at 4627', 0.40 at 5358', 0.40 at 5898', 0.50 at 6247', 0.50 at 6790'. BHA: Bit, motor, 10 - 6" DC's and 6 joints HWDP (522'). Made short trip above Niobrara. C&C mud. Currently LDDP. Note: Reached TD at 23:30 hours 30-Aug-08.	8/31/2008
8/31/2008	Finished LDDP. PSI ran DIL, CDL, CNL, GR from 6815'. Ran 4-1/2" casing and cemented. Rig released at 19:30 hours 31-Aug-08.	8/31/2008

Initial Completion, 10/28/2008 10:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 10/28/2008	End Date 10/29/2008	Objective
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Daily Operations

Start Date	Summary	End Date
10/28/2008	RU Superior wireline, Run CCL and bond log. finding top of cement @ surface and top of tail @ 5830 PU 3 1/8 slickgun & perforate new codell @ 6654-6660 W/2 SPF (12 total shots) W/120 degree phasing, 19 gram L charges, 0.41 entry hole, 20.28 penetration, & the Niobrara B @ 6484-6492 W/2 SPF (16 total shots), W/120 degree phasing, 21 gram HERO charges, 0.36 entry hole, 42.5 penetration, RD Superior, SWI, RD rig, MRO, FINAL REPORT...	10/28/2008
10/29/2008	MIRU BJ Services. Codell /Niobrara Performed a Limited Entry Codell/Niobrara stimulation using 952 bbls of Slickwater Pad, and 954 bbls of bbls of Vistar 20# Pad. Pumped 3011 bbls of Vistar 20# fluid system. 334980 lbs of 20/40 white sand and 16420 lbs of SB Excel 20/40 resin coated proppant. Niobrara perfs @ 6484-6492 (2 SPF) & Codell perfs @ 6654-6660 (2spf). Breakdown at 3360 psi @ 5 bpm, Ballout with 50 bio-ball sealers and 1000 gallons of 15% HCl acid, shut down, (ISIP - 2960) allowed balls to drop for approximately 15 minutes and proceeded remainder of treatment. Pumped 1 - 4 ppg stages of 20/40 white sand, 4 ppg SB Excel proppant, flush well to top Niobrara perforation (103. bbls), shut down, record ISDP = 3282 psi, . RD BJ Services, turn well on to flowback. MTP = 4987 psi, ATP = 4175 psi, AIR = 49 bpm. Operationally treatment was good. Pressure response was flat to negative for most of job, turned positive at the end of 3 ppg and 4 ppg sand stages. Well turned on for flowback on a 14/64 choke. Frac via 4 1/2" casing.	10/29/2008

Completion, 11/25/2008 06:00

Job Category Completion/Workover	Primary Job Type Completion	Start Date 11/25/2008	End Date 11/26/2008	Objective Complete-Run production tubing
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Daily Operations

Start Date	Summary	End Date
11/25/2008	SCP 400#s, MIRU Ensign Rig #313 W/ pump & tank. ND production equipment & RU pump lines to WH, blow casing down to FBT. Conrtoll well W/ 60 Bbls 2% KCL. ND frac valve & NU new 4 1/2" 3K mandrell style Well Head Inc. tubing head W/ BOP. PU 2 3/8" NC/SN & TIH tallying new 2 3/8" J-55 4.7# EUE 8rd tubing F/Colorade Tubulars. Ran 97 Jts to 2990.30' KB. Rig clutches started slipping-shut down & work on rig for the remainder of the day. RU flow back line W/ 20-64 choke to FB, final pressures 0/0. SDFN. Daily Cost\$5168.50	11/25/2008
11/26/2008	Ensign Rig #313 Rig Crew on Location @ 6:00am 100 over 100 on well. Continue TIH tallying & PU 2 3/8" J-55 4.7# EUE 8rd tubing off sills. Tag sand @ 6612' Roll hole clean to pPBDT 6754'. Pick up laying down tag joints landing EOT to 6643.34' KB W/ 215 Jts . & one 4' pup Joint. ND BOP & pack tubing head off. Drop 2 3/8" PCS standing valve & chase to seat nipple W/ 1.910" broach-tubing broached good, seat standing valve in seat nipple. SI well & RDMO to Wells Ranch #24-10.	11/26/2008

WBI - Abandon Well Other Operator, 1/23/2019 06:00

Job Category Abandon	Primary Job Type WBI - Abandon Well Other Operator	Start Date 1/23/2019	End Date 1/25/2019	Objective PLUG AND ABANDON WELL.
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Daily Operations

Start Date	Summary	End Date
1/23/2019	ITP 1200 PSI, ICP 1200 PSI, ISCP 0 PSI, ISCP 0 PSI, MIRU RANGER RIG 14, BLEW DOWN WELL TO WORK TANK, FUNCTION TEST BOP, CIRCULATED OIL AND GAS OUT, ND PRODUCTION TREE, NU BOP, PULLED 58 JTS TO DERRICK, LD 157 JTS ON ATP'S TRAILER, MIRU C&J WIRE LINE TRUCK, MADE A GAUGE RING RUN (3.625") DOWN TO 6450', PU 4 1/2 10K CIBP, SET CIBP AT 6334' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG, RD WIRE LINE, RIH WITH 2 3/8 PRODUCTION PIPE DOWN TO 1822' WITH 59 JTS, RU CIRCULATING EQUIPMENT, CIRCULATED THE HOLE CLEAN, PRESSURE TESTED CASING AND PLUG UP TO 1000 PSI, HELD GOOD FOR 15 MINUTES, BLEED OFF PRESSURE, LD 4 JTS, DRAIN PUMP AND LINES, SI AND SECURE WELL FOR THE NIGHT, SD.	1/23/2019



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Daily Operations

Start Date	Summary	End Date
1/25/2019	<p>NO PRESSURES, OPENED WELL, PICKED UP 3 JTS, EOT AT 1822' WITH 59 JTS, MIRU C&J CEMENT TRUCKS, HELD SAFETY MEETING, PRESSURE TESTED LINES UP TO 2500 PSI, NO LEAKS, PUMPED 40 SACKS (9.5 BBL) OF 14.8 TYPE III CEMENT, DISPLACED 4.6 BBL OF WATER, EST TOC AT 1212', LD 27 JTS ON ATP'S TRAILER, EOT AT 682' WITH 22 JTS, ESTABLISHED CIRCULATION WITH WATER, OPENED WELL FOR 5 MINUTES, NO FLOW OR GAS MIGRATION, PUMPED 45 SACKS (10.6 BBL) OF 14.8 TYPE III CEMENT AND GOT CEMENT UP TO SURFACE, LD THE PIPE, TOP OFF WITH 5 SACKS OF CEMENT, CLEAN UP EQUIPMENT FROM CEMENT, ND BOP, RACK PUMP AND TANK, RDMOL. PUMPED TOTAL OF 90 SACKS OF 14.8 TYPE III CEMENT.</p> <p>MOVE IN ATP'S CUT AND CAP CREW, DUG DOWN 6' CUT OFF WELL HEAD, WELDED CAP ONTO SURFACE, INSTALLED MARKER PLATE ON CAP, BACKFILLED, SHUT DOWN.</p> <p>FINAL REPORT.</p> <p>215 JTS OF 2 3/8 J-55 4.7 SOLD TO KARST.</p>	1/25/2019