



Cimarex Energy Co.
Well History
01/01/1900 - 12/31/2076

OPERATED

WARWINK PROSPECT

CIMAREX ENERGY CO. OF COLORADO

424122-026.01 UNIVERSITY 45-5

County, St: Winkler, TX

Location:

Spud Date: 11/10/2010 W.I. Pct BCP: 70.75 %
 Formation: Add Postelle Perfs W.I. Pct ACP: 70.75 %
 Prop Depth: 0.0000 Sec/TS/Rng: 45

12/01/2010 Daily Cost: \$825
 WO Cumulative Costs: \$172,932

AFE: 370453CW Present Operation: RDMO, put to test
 DFS: 21 Well pumping good. Trace off oil at bleeder. RDMO. Put well in test. Well test will be listed above. TBWTR-1883

11/30/2010 Daily Cost: \$13,175
 WO Cumulative Costs: \$172,107

AFE: 370453CW Present Operation: R/C to Cherry Canyon/Postelle E1
 DFS: 20 Continue to TIH picking up 2 3/8 J-55 yellow band tbg off rack. Tag RBP w/ no fill @ 6800' w/ 214 jts w//15' out on top jt. LD 2 jts for total of 207 jts, TAC, 4 jts, SN, Perf sub, BPMA. NDBOP. Set TAC w/ 12 pts tension. Pack off Larkin head. RU rod tools. PU and RIH w/ new 2" x 1 1/2" x 24' x 4' RXBC pump w/ 10' gas anchor, 3/4" RH backoff tool, 2' x 3/4" pony sub, 15 - 7/8" slick rods, 183 - 3/4" slick rods, & 69 - 7/8 slick rods. Spaced out w/ no pony's. Changed out 80 - 3/4 boxes & 9 - 7/8 boxes while RIH due to wear. Loaded tbg w/ 12 bbls & tested good to 500 psi. Stroked pump up to 500 psi and showed good pump action. Hung well on. Too late to RD. Will RD tomorrow.
 Started Pumping unit and let run overnight while rigged up. Unit running 5.2 SPM in 3rd of 4 holes @ 99" stroke. Rod pump that we POOH was scrapped out - entire pump warn out.

11/29/2010 Daily Cost: \$8,640
 WO Cumulative Costs: \$158,932

AFE: 370453CW Present Operation: R/C to Cherry Canyon/Postelle E1
 DFS: 19 MIRU PU. Move in pipe racks and tbg previously layed down. ND Frac Valve. NU Larkin head & 7 1/16" x 5M manual BOP dressed w/ 2 3/8" and blind rams. TIH w/ 1 jts 2 3/8 J-55 tbg as BPMA, 4' perf sub, 2 3/8" SN, 4 jts 2 3/8 J-55 Yellow band tbg, 5 1/2" x 2 3/8" TAC, 83 jts 2 3/8" J-55 Yellow band tbg. Wind blowing hard and gusting to 40 MPH. SWI & SDFN. Will resume RIH w/ tbg tomorrow.

11/24/2010 Daily Cost: \$82,832
 WO Cumulative Costs: \$150,292

AFE: 370453CW Present Operation: Frac Well
 DFS: 14 B J Services fraced well w/71,680 gal 10# brine wtr w/10,000# LiteProp 125, 14/30 sand. Left well SI until Monday. Will put well on rod pump.
 Well went on vasuum after frac. Well SI until Monday 11/29/10

11/22/2010 Daily Cost: \$2,200
 WO Cumulative Costs: \$67,460

AFE: 370453CW Present Operation: Run dip in BHP
 DFS: 12 RU Precision WL. Ran dip in BHP. Pressure at mid perfs =2285#. Left well SI until frac.

11/16/2010 Daily Cost: \$1,980
 WO Cumulative Costs: \$65,260

AFE: 370453CW Present Operation: RDMO, ready to frac
 DFS: 6 RDMO PU. Move tbg to corner of location. Ready to prep for Frac. Move rig to University 45A #3.
 TL load to recover - 75 bbls / TI load recovered - 36 / LLTR - 39 bbls

11/15/2010 Daily Cost: \$5,225
 WO Cumulative Costs: \$63,280

AFE: 370453CW Present Operation: Prep for Frac

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 Formation: Add Postelle Perfs W.I. Pct ACP: 70.75 %
 Prop Depth: 0.0000 Sec/TS/Rng: 45

DFS: 5 SITP - 150 psi. Bled tbg. Crew changed oil on rig. RIH w/ swab. FL @ 3300' FS. 1st run 100% oil. 2nd run 60% wtr cut. 3rd run 100% water, pulled from SN. 4th run no fluid entry. Waited 1 hr then showed 300' of entry - emulsion. Got decision from office to go ahead w/ frac. RD swab. Released Pkr. Pooh laying down tbg. ND bop and spool. Nu 7 1/16" flange and 7 1/16" 5M frac valve on 5 1/2" csg. SWI. Clean up tools, equipment, and WH. Too windy to RD.

TL load to recover - 75 bbls / TI load recovered - 36 / LLTR - 39 bbls

11/14/2010 Daily Cost: \$165

WO Cumulative Costs: \$58,055

AFE: 370453CW Present Operation: SDFWE

DFS: 4 No Activity - shut down until Monday.
 TL load to recover - 75 bbls / TI load recovered - 27 / LLTR - 48 bbls

11/13/2010 Daily Cost: \$5,181

WO Cumulative Costs: \$57,890

AFE: 370453CW Present Operation: Swab

DFS: 3 Started working swab pulling consistent up to 12 pts in 1st gear. Pulled slowly up to highest point we got to yesterday without stopping. Then stopped there. Worked down 1 time and then went back to continuous pull. Slowly started pulling faster. Started seeing wet line @ approx 4500' of line in hole. Fluid to surface at approx 2500' in hole. Got out w/ all tools. Bottom rib of cup burnt out but top 2 ribs ok. Showed to recover 6 bbls brine water. Checked rope socket and watched line on way out of hole for any damages. Rope
 socked and swab line looked good. 11:00 - RU and resume swabbing. IFL @ 2400'. PF 3060' & rec 2 bbls. Made continuous swab runs w/ no problems with paraffin. Swabbed straight down to SN & rec 26 bbls water. After reaching SN, not getting fluid entry. Milked from SN 3 runs w/ only trace of fluid. Sample showing black emulsion. Wait 1 hr. Wait 1 hr and made 2 runs milking from SN. Only getting out w/ 150' of fluid each run. Recovered tl of 27 bbls. Final sample showed thick emulsion - No acid recovered. Only flush brine water. TL load to recover - 75 bbls / TI load recovered - 27

11/12/2010 Daily Cost: \$15,947

WO Cumulative Costs: \$52,709

AFE: 370453CW Present Operation: Swab

DFS: 2 MIRU Basin Hydrotester. RIH w/ 5 1/2 15.5 - 17# Model R Pkr, SN, & 52 jts Hydrotesting to 5000 psi. Having prob's w/ tools getting stuck in paraffin. Discussed w/ office. Decision made to RIH w/o hydrotesting. Will test casing after setting pkr and monitor csg psi during acid job. Finish RIH w/ 211 jts 2 3/8 J-55 tbg to 6704'.

MIRU Petroplex acid trucks. Spot 2 bbls acid across perfs. Pull 3 jts to 6614'. Reverse 3 bbls. Set PKR. Load csg w/ 4 bbls. Tested csg to 2000 psi good. Bled off to 500 psi for acid job. RU on tbg. Tested lines to 5000 psi. Started on water. Tbg loaded w/ 3 bbls - Inj 1.8 bpm @ 350 psi. Started Acid. Pumped 2000 gals 15% HCL BXDX blend. Increased rate to 5.2 bpm & maintained 3000 psi during job. Flushed w/27 bbls brine. (no balls pumped) Min - 323 psi @ 1.5 bpm Max - 3161 psi @ 5.2 bpm Avg - 3000 psi @ 5.2 bpm ISIP - Vacuum. RDMO Acid trucks. RU swab.

1st run - operator did not feel any fluid down to 5900'. PU on swab to check and unable to pooh w/ swab. Started working swab pulling steady 6 pts wt. Swab stalling for approx 30 sec's and then spooling +/- 2' continually. Able to continue down hole w/ swab. Continued to work swab up to max of 11 pts and slacking off till going down hole. Unable to make hole doing this but losing hole instead. Started working steady pull again up to 11 pts - worked up to 5590' over next hour. SWI & SDFN. Plan to work swab more tomorrow. LTR - 75 bbls

11/11/2010 Daily Cost: \$18,451

WO Cumulative Costs: \$36,762

AFE: 370453CW Present Operation: Acdz perfs

DFS: 1 Decision made to clean up paraffin from csg prior to continuing to perforate and acidize. RIH w/ tbg to 6770'. MIRU hot oiler and transports w/ BJ services paraffin chemical in fresh water. Reverse hot water w/ chemical at 240 deg - pumped tl of 300 bbls @ avg of 1 bpm. Returns remained clean the whole time.

Released Hot oiler. MIRU kill truck and circulated 160 bbls brine @ 4 bpm. Getting show of paraffin in returns.

POOH w/ tbg & retrieving head. Still showing heavy amount of paraffin on tbg OD but not as thick as before.

MIRU Wireline truck. RIH w/ 4.625" GRJB and tagged top of RBP @ 6803'. No problems getting down w/ GR. RIH w/ 3 1/8" slick Hollow Carrier gun loaded 2 spf for 20' @ 120 deg phasing & CCL. Correlated to Computalog GR CCL correlation log ran for IP Petroleum Company Dated 4/1/96. Perforated 6682' - 6702' (40 holes). No response from well. Pooh. All shots fired. RDMO Wireline truck. SWI. SDFN. Set up to hydrotest tbg and pkr in hole tomorrow and Acidize perfs.

11/10/2010 Daily Cost: \$9,075

WO Cumulative Costs: \$18,311

AFE: 370453CW Present Operation: Finish POOH & Perf

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Prop Depth:	0.0000	Sec/TS/Rng:	45

DFS: 0 ND BOP. Removed 2K Larkin head from 5 1/2 Csg. MU 5 1/2 8 rd x 7 1/16" 5M flange, NU 7 1/16" 5M spool w/ 2" outlet & same BOP. MU and RIH w/ 4 3/4" bit and 5 1/2" scraper on 216 jts 2 3/8 J-55 tbg to 6866'. MIRU hot oil truck and pumped 65 bbls hot PW w/ 15 gals paraffin chemical - 20 bbls @ 125 deg & 45 bbls @ 240 deg. RD hot oiler. TOO H w/ bit & scraper. OD of tbg pulling thick paraffin from well. RIH w/ 5 1/2 15.5 - 17# TS RBP & 214 jts tbg. Set RBP @ 6800'. LD 1 jt. RU kill truck. Circulated hole clean w/ 180 bbls 10# brine & 15 gals paraffin chem. Test csg to 3000 psi for 30 minutes. Held good. Pooh w/ 150 jts tbg - still pulling paraffin on ID of tbg. Ran out of daylight. SWI SDFN. Will finish Pooh in am and then Perforate.

Pump report showed pump was junk. Barrel worn, Plunger worn, Traveling valve worn, Balls and seats leaking.

11/09/2010	Daily Cost:	\$9,236
WO	Cumulative Costs:	\$9,236

AFE: 370453CW Present Operation: RIH w/bit & scraper

DFS: -1 Road rig from Warwink. Set rig mat and RUPU. MI pipe racks. Unseat pump. Rods clean @ surface. SD 30 minutes to exchange loaner starter on rig for rebuilt original. POOH laying down 1 1/4" x 26' polish rod w/ 7/8 pin and 1 1/2" x 12' liner, 1 - 4' & 1 - 6' x 7/8 pony subs, 75 - 7/8" slick rods, 188 - 3/4" slick rods, 15 - 7/8" slick rods, 2" x 24' RHBC pump w/ 1" x 10' strainer nipple. Rods dragging 20 pts 1/2 way out. Had hot oiler and chemical on location but rig time running late and needed hot oiler on our other rig. Plan to Hot water w/ chemical tomorrow with scraper in hole. ND larkin wellhead. NUBOP. Released TAC. MIRU tuboscope scanner. Pooh scanning 118 jts 2 3/8 J-55 tbg, 5 1/2" TAC, 2 jts 2 3/8 J-55, 2 3/8 SN, 2 3/8 x 4' perf sub, 3 jts 2 3/8 J-55 tbg as BPMA. Scan showed 210 jts yellow, 10 jts blue, 1 jt green due to pipe wrench markings on OD of tbg, had 1 bent jt, and 1 jt crimped by tongs. RDMO scanner. SWI & SD @ 18:30.