

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION

ARTESIA DISTRICT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

REC'D Artesia  
2015  
RECEIVED

5. Lease Serial No.  
NMNM92160

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.  
NM/20212

8. Well Name and No.  
TRINITY 20 FEDERAL COM 1

9. API Well No.  
30-015-34521

10. Field and Pool, or Exploratory  
COTTONWOOD DRAW

11. County or Parish, and State  
EDDY COUNTY, NM

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
CIMAREX ENERGY COMPANY  
Contact: PAULA BRUNSON  
E-Mail: pbrunson@cimarex.com

3a. Address  
600 N MARIENFELD STE 600  
MIDLAND, TX 79701  
3b. Phone No. (include area code)  
Ph: 432-571-7848

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 20 T25S R26E NWSE 1980FSL 1580FEL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Trinity 20 Fed Com 1 ? RC to Cisco Canyon & Wolfcamp Daily Workover History

7/10/2014. SITP-400 psi, SICP-400 psi. POOH w/ tbg, GLVs and packer. RIH w/ 4.5" CIBP and set @ 11525'. Tag plug to verify depth. Dump bail 3 sx cmt on top. Let cmt set overnight.  
7/11/2014. SICP-500 psi. Tried to pressure test csg, would not pressure up.  
7/13/2014. SICP-850 psi. RIH w/ pkr & RBP on tbg. Tested csg @ 7855', held 1500 psi for 5 mins. Tested between pkr & RBP, held 1800 psi for 5 mins. POOH w/ RBP, pkr & tbg.  
7/14/2014. SICP-750 psi. RIH w/ pkr & tbg. Tested tbg to 8000 psi, held. Set pkr @ 11472'. RIH and tag CIBP @ 11525', never felt cmt. Set pkr @ 11506' & load annulus, held 2000 psi for 5 mins.  
7/15/2014. SICP-700 psi. RIH w/ 4.5" CIBP and set @ 11506'. Pressure tested csg to 2100 psi for 15 mins. Tag plug to confirm depth. Dump bail 35' cmt on top of plug.  
7/16/2014. SICP-1100 psi. Load csg. Pressured up to 2100 psi, held for 15 mins. Bled pressure down

Accepted for record  
LED NMOCD 1/6/2016

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #287384 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad  
Committed to AFMSS for processing by DEBORAH HAM on 06/02/2015

Name (Printed/Typed) PAULA BRUNSON	Title REGULATORY ANALYST	ACCEPTED FOR RECORD DEC 22 2015 W. Ham
Signature (Electronic Submission)	Date 01/08/2015	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
Approved By _____	Title _____	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

## **Additional data for EC transaction #287384 that would not fit on the form**

### **32. Additional remarks, continued**

to 200 psi & SI. 30 min SI-gained 150 psi to 350 psi. 1 hr SICP-500 psi. Pressure test to 5000 psi & SI 5 mins, lost 80 psi. SI for 1 hr, gained 100 psi. (NOTE: all 8.4 lb fresh water being used to test.)

7/17/2014. SICP-400 psi. Load csg & pressure up to 8075 psi, bled off 350 psi in 5 mins. RIH w/ pkr & tbg.

7/18/2014. SITP-710 psi, SICP-4300 psi. RIH w/ tbg to tag and test CIBP (@ 11506?). Tag CIBP @ 11506', never encountered cmt. POOH w/ tbg and pkr. Notified BLM of activity to date, discussed go-forward plans and received BLM approval.

7/24/2014. SICP-845 psi. RIH w/ 10K CIBP. Tagged existing CIBP @ 11506', pulled up to 11451' and set 10K CIBP. RIH w/ tbg, tag CIBP @ 11451' to confirm depth. Pump 40 sx cmt. Leave tbg swinging @ 10489' overnight to let cmt set.

7/25/2014. SICP-800 psi. POOH w/ tbg, btm 50 jts full of cmt. Pressure up on csg to 9490 psi on CIBP @ 11451', lost 273 psi in 15 mins. RIH w/ pkr and tbg. Set pkr @ 9000'. Pressure up on csg below pkr to tot BHP of 9530 psi, lost 595 psi in 15 mins. Pressure up on annulus above pkr to 8761 psi, lost 155 psi in 15 mins. Left pressure on tbg for 30 mins while testing annulus, had additional 541 psi drop. Left pressure on tbg and annulus overnight (TP-2438 psi, Annulus-3926 psi).

Continued on attached page.  
Well bore diagram is attached.

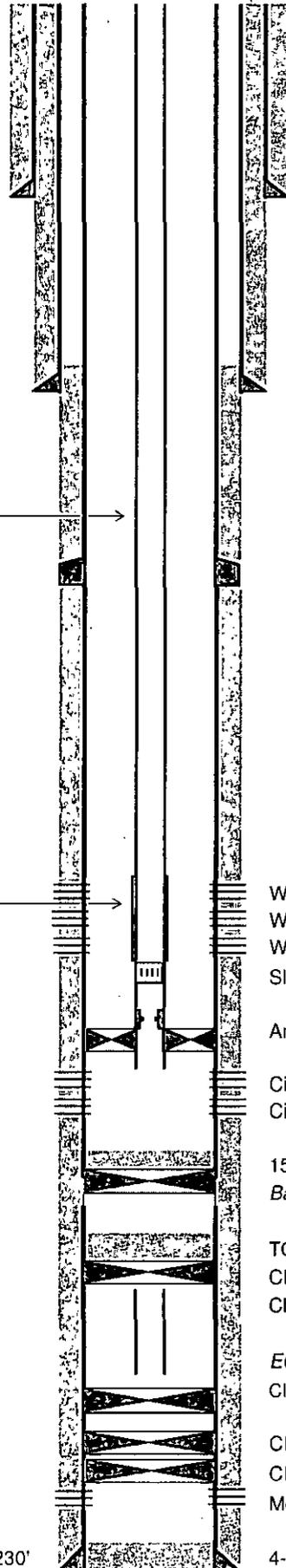
**Trinity 20 Fed Com 1 – RC to Cisco Canyon & Wolfcamp Daily Workover History (con't):**

- 7/26/2014. SITP-3037 psi, SICP-865 psi. Bled down. Started pressure testing w/ tbg in the hole before it was determined that collars had not been made up tight enough. TOO H w/ tbg and pkr and SDFN.
- 7/27/2014. SICP-300 psi. RIH w/ tbg to 3500'. Filled tbg and tested to 2000 psi, tbg leaked off 1 psi every 10 seconds. RIH to 7863' (30' above DV) and pressure up tbg & csg, tbg lost 120 psi and csg lost 380 psi in 15 mins. RIH to 7960' (68' below DV) and pressure up tbg & csg to 4200 psi, tbg lost 121 psi and csg lost 381 psi in 15 mins. Pull tbg up to 4961' & pressure up tbg and csg to 4500 psi, tbg lost 190 psi and csg lost 368 psi in 15 mins.
- 7/28/2014. SITP-250 psi, SICP-137 psi. Bled down tbg & csg. Retest with 4900 psi on csg and tbg, csg leaked off 480 psi and tbg leaked off 155 psi in 15 mins. TOO H w/ tbg and pkr. SDFN.
- 7/29/2014. SICP-157 psi. Closed in well w/ BOP and wing valves and SD job. Leave tbg hanging @ 11381'.
- 8/11/2014. SITP-340 psi, SICP-840 psi. Found tbg was stuck. Pressure up on tbg to 4000 psi w/ no leak off or movement.
- 8/12/2014. SITP-0 psi, SICP-760 psi. Load csg and pressure up to 3000 psi, no communication to tbg. RIH w/ free point and tag inside tbg @ 11185'. Check freepoint @ 11170', 40% free. Check freepoint @ 11155', 70% free. Discuss w/ BLM and agree to cut tbg. RIH w/ chemical cutter and cut tbg @ 11115'. POOH w/ 341 jts tbg.
- ~~8/13/2014.~~ Rig up chart recorder and pressure test csg to 500 psi for 30 mins, held. Tag fish and set 4.5" 10K CIBP @ 11110'.
- 8/14/2014. RIH w/ tbg and tag CIBP @ 11110'. Pump 30 sx class H cmt. Pressure up on well to 1000 psi and leave pressure on well overnight, saw no bleed off in 30 mins.
- 8/15/2014. RIH to tag cmt @ 10070' (45'). Decision made to recement plug. Pump 25 sx class H cmt.
- ~~8/18/2014.~~ Pressure test csg to 4500 psi, lost 180 psi in 30 mins. RIH and tag cmt @ 11017'. Discuss go forward w/ BLM. Set 15K CBP @ 10735'. Dump bail 36' class H cmt on top of plug. TOC @ 10699'.
- 8/21/2014. Pressure test csg to 8500 psi, got a good 30 min test w/ no leak off.
- 8/26/2014. Perforate stage 1 Cisco Canyon (10263'-10387').
- 8/30/2014. Frac stage 1 w/ 144215# sand in 162196 gals. Perf stage 2 Cisco Canyon (10124'-10241'). Frac stg 2 w/ 143991# sand in 161492 gals. Perf stage 3 Wolfcamp (9767'-9938'). Frac stage 3 w/ 341346# sand in 393951 gals.
- 8/31/2014. Perf stage 4 Wolfcamp (9516'-9714'). Frac stage 4 w/ 209763# sand in 307550 gals. Perf stage 5 Wolfcamp (9114'-9469'). Frac stage 5 w/ 516574# sand in 514770 gals.
- 9/2/2014. Drill up 4 flow through composite plugs with coil tubing. Pump 2-10 bbls sweeps off bottom to clean up well. Flow back well.
- 9/3/2014. Csg pressure 3000 psi. Discuss w/ BLM and get approval to flow back the well to sales until casing pressure is low enough to safely snub in w/ tubing and packer for temporary "dual completion".
- 10/20/2014. RIH w/ pkr on wireline & set @ 10016'. Begin snubbing in w/ 2-3/8" tbg. SDFN for storms.
- 10/21/2014. Continue snubbing in w/ 2-3/8" tbg.
- 10/22/2014. Finish snubbing in w/ 2-3/8" tbg. Latch onto 4.5" AS1-X 10K pkr and space out tbg. Land tbg.
- 10/23/2014. RD snubbing unit. NU WH. RIH w/ slickline and punch disc. RDMO and clean up location. Leave well producing Cisco Canyon up tbg, Wolfcamp up casing.



KB : 19' above GL

Cimarex Energy Co. of Colorado  
Trinity 20 Federal Com #1  
1980' FSL & 1580' FEL  
Sec. 20, T-25-S, R-26-E, Eddy Co., NM  
H. Hubbard 09/08/2014



13-3/8", 48# H-40 csg @ 310'  
cmtd w/ 340 sx, cmt circ

TOC @ 2620' by CBL  
9-5/8", 40# J-55 csg @ 2665'  
cmtd w/ 830 sx, cmt circ

2-3/8" 4.7# L80 Tbg

DV Tool @ 7893'; cmtd w/ 1135 sx

840' 2-3/8" blast joints

Wolfcamp perms (9114' - 9469')  
Wolfcamp perms (9516' - 9714')  
Wolfcamp perms (9767' - 9938')  
Sliding sleeve 2 jts above O/O tool

Arrowset 1X pkr @ ± 10,010' & O/O tool w/ "X" nipple

Cisco Canyon perms (10124' - 10241')  
Cisco Canyon perms (10263' - 10387')

15K CBP @ 10,735' w/ cmt on top (TOC @ 10,702')  
Bad collars identified @ 10,756' & 10,801'

TOC @ 11,027'  
CIBP @ 11,110', pumped 55 sx Class H on top (~770')  
Chemical cut tbg @ 11,115'

EOT @ 11,381', tbg stuck (possibly in cmt?)  
CIBP @ 11,451'; 40 sx cmt on top, no TOC, cmt in btm 50 jts tbg

CIBP @ 11,509'; dumped 2 sx cmt on top, none tagged  
CIBP @ 11,525'; dumped 3 sx cmt on top, none tagged  
Morrow perms (11551' - 11577')

PBTD @ 12230'  
TD @ 12280'

4-1/2" 11.6# P-110 @ 12280'  
cmtd w/ 1115 sx