

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.*

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM104661
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: TERRI STATHEM E-Mail: tstatthem@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1936	7. If Unit or CA/Agreement, Name and/or No. NMNM120212
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T25S R26E NWSW 1980FSL 660FWL		8. Well Name and No. TRINITY 20 FEDERAL COM 2
		9. API Well No. 30-015-34500-00-S1
		10. Field and Pool, or Exploratory COTTONWOOD DRAW
		11. County or Parish, and State EDDY COUNTY, NM

**RECEIVED**  
 NOV 19 2012  
 NMOC CD ARTESIA

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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 checked="" 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 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.)

Cimarex Energy respectfully request approval to complete the Trinity 20 Federal Com #2 well in the Wolfcamp/Cisco (DHC) per the procedure below.

The BLM approved October 3, 2011 a NOI to abandon the Morrow and complete in the Wolfcamp. An attempt was made to complete the well in the Wolfcamp as approved by the BLM. Please see well history attached for daily activity of Wolfcamp completion. (Sundry filed 9/13/12)

Due to the fish in the hole @ 9612', Cimarex Energy requests approval to complete the Wolfcamp/Cisco as follows:

Cisco is OH @ 10001-10950'

1. Perf Wolfcamp @ 9164-9632' w/ 3 JSPF @ 120 deg phasing, 114 holes.

More than  
Cisco  
open!

Accepted for record

NMOC D TES

11/20/2012

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #150041 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 09/20/2012 (12KMS3154SE)**

Name (Printed/Typed) TERRI STATHEM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 09/13/2012

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>REJECTED</b>	Title WESLEY INGRAM PETROLEUM ENGINEER	Date 11/15/2012
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 Carlsbad

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.

**Additional data for EC transaction #150041 that would not fit on the form**

**32. Additional remarks, continued**

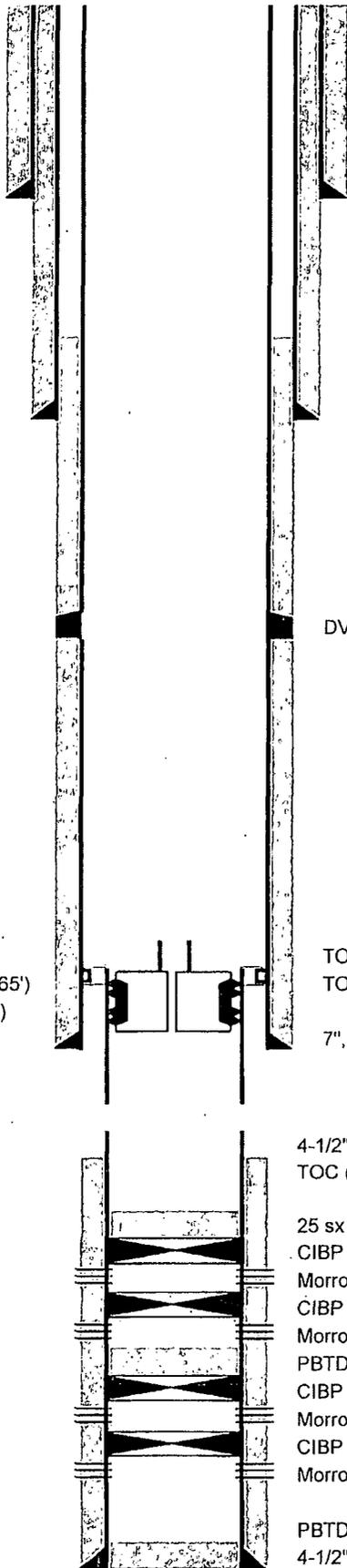
2. Acid & frac perfs down 7" csg per recommendation.
3. Drill out CBPs. CO.
4. RU WL. TIH w/ 10K pkr w/ on-off tool & pump out plug (pinned for 7500 psi BHP) in place & set @ +/- 9050'. RD.
5. Turn well to production.

Current & proposed WBD is attached. DHC permit pending approval.



Current

Cimarex Energy Co. of Colorado  
 Trinity 20 Federal Com #2  
 1980' FSL & 660' FWL  
 Sec. 20, T-25-S, R-26-E, Eddy Co., NM  
 S. Gengler 10/31/2011



13-3/8", 48# H-40 csg @ 214'  
 cmtd w/ 220 sx, cmt circ

TOC @ 2400' by TS

9-5/8", 40# J-55 csg @ 2681'  
 cmtd w/ 775 sx, cmt circ

DV Tool @ 6502'  
 cmtd w/ 570 sx

TOF @ 9612'  
 TOL @ 9616'

7", 26# N-80 csg @ 10001'  
 cmtd w/ 550 sx

4-1/2" Csg stub @ 10800'  
 TOC @ 10950' by CBL

25 sx cmt plug (11097' - 11400')  
 CIBP @ 11400'

Morrow perfs (11446' - 11486')  
 CIBP @ 11540'

Morrow perfs (11561' - 11568')  
 PBTB @ 11660'

CIBP @ 11690'  
 Morrow perfs (11721' - 11730')

CIBP @ 11921'  
 Morrow perfs (12107' - 12112')

PBTB @ 12252'  
 4-1/2" 11.6# P-110 @ 12320' cmtd w/ 240 sx  
 TD @ 12325'

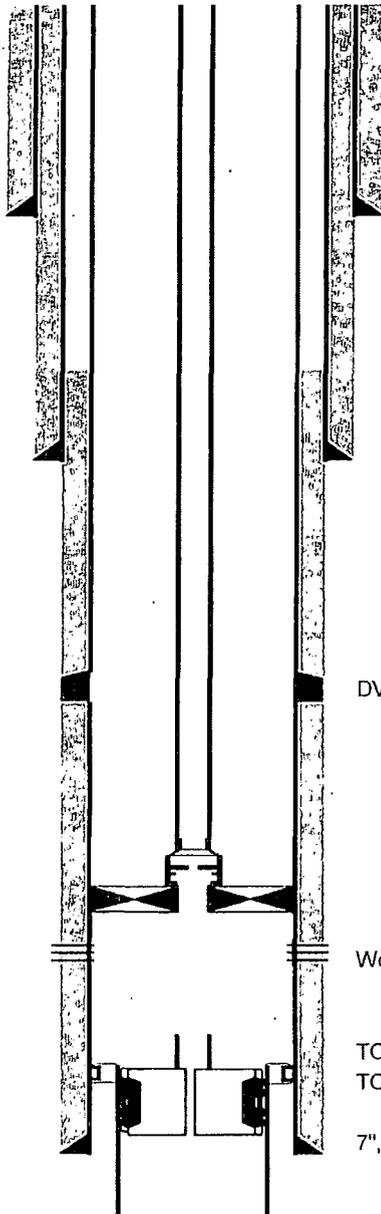
Fish:

- Stop Sub Body (3.5" x 1" x 1.04')
- Stop Sub Stop (5.5" x 1" x 0.16')
- X-over (3.375" x 1.3125" x 0.99')
- 2-3/8" Drill Collar (3.375" x 1.625" x 31.65')
- 2-3/8" DC Pup jt (3.375" x 1.5625" x 10')
- X-over (3.4375" x 1" x 1.42')
- 4-1/2" csg spear (3.25" x 0.75" x 2.69')



Proposed

Cimarex Energy Co. of Colorado  
Trinty 20 Federal Com #2  
1980' FSL & 660' FWL  
Sec. 20, T-25-S, R-26-E, Eddy Co., NM  
S. Gengler 10/31/2011



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cmtd w/ 220 sx, cmt circ

TOC @ 2400' by TS

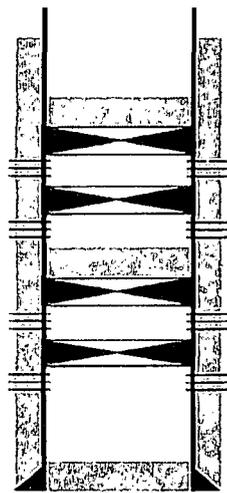
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Wolfcamp perms (9164' - 9632')

TOF @ 9612'  
TOL @ 9616'

7", 26# N-80 csg @ 10001'  
cmtd w/ 550 sx



4-1/2" Csg stub @ 10800'  
TOC @ 10950' by CBL

25 sx cmt plug (11097' - 11400')  
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Morrow perms (11446' - 11486')  
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Morrow perms (11561' - 11568')  
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CIBP @ 11690'  
Morrow perms (11721' - 11730')

CIBP @ 11921'  
Morrow perms (12107' - 12112')

PBTd @ 12252'  
4-1/2" 11.6# P-110 @ 12320' cmtd w/ 240 sx  
TD @ 12325'

## Trinity 20 Federal #2 WO History

Attachment to 3160-5 Subsequent Recomplete to Wolfcamp  
3001534500

- 9/30/2011 MIRU Pulling Unit. Killed well, Tried to release pkr for 3 hours w/o success.
- 10/1/2011 Worked pkr for 2 hours and release. TOOH w/ pkr & tbg
- 10/5/2011 Set CIBP @ 11400'. TIH w/ tbg and spot 25 sx cmt plug on top of CIBP - Abandoning Morrow.
- 10/6/2011 Ran GR to 10880'. Ran Chem cutter and cut 4-1/2" csg @ 10800'. RD WL. Ran spear and could not latch on to liner. TOOH w/ tools
- 10/7/2011 TIH w/ spear and caught liner. Pulled 80K and did not move liner. Pulled 90K and jarred for 2 hours - still no movement. Pulled 100K and jarred for 2 hrs moving 8'. Pulled 105K and had a little more movement. Jarred and moved 17' before parting tbg at surface. Moved a total of 37'.
- 10/10/2011 RIH w/ OS and caught fish. Worked for 3 hrs w/ no progress. RU power swivel jarred and work for 3 hrs w/ no progress.
- 10/11/2011 Attempted to back off tbg at bumper sub. Pulled 56K and tbg parted. TOOH w/ tbg. WO new grapple. Ran grapple and tagged at 47'. Latched on to fish and backed off tbg @ 9636'. TOOH to OS and LD OS. Started OOH w/ tbg.
- 10/12/2011 Finished TOOH w. tbg. LD tbg. PU 2-7/8" tbg and start in hole w/ jars
- 10/13/2011 FIH w/ jars and tagged @ 9590'. Latched on to fish and worked to 110K max pull w/ no movement
- 10/14/2011 RU swivel and work 1700 psi RH torq into string while pulling 80K and bumping down on fish to release spear. Worked 2 hrs & can not set off jars w/ swivel.
- 10/15/2011 RU csg jacks and worked fish to 140K. Saw about 12" movement and stopped moving. Beat down on fish w/ rig from 100K to 70K. Pulled 150K w/ csg jacks w/ no movement. Pulled 160K and saw 12" movement and stopped. Continued to work jacks w/ 160K and additional movement. Pump down tbg to try to circ around fish. Took 4 bbls to load. Pumped 9.5 bbls and pressured up to 2000 psi. Let pressure bleed of to 1000 psi w/ no action on backside. Pumped down tbg while pulling 100K w/ rig and 140K & 160K w/ csg jacks w/ no movement. Pumped total of 20 bbls down tbg. Pumped 22.5 bbls down csg and loaded csg. Pressure backside to 3000 psi and pulled 160K w/ no movement and circ up tbg. Moved fish a total of 2'. Leaves 4-1/2" pkr @ 9640'. RD Pulling unit
- 10/18/2011 RU new Pulling unit and worked fish up to 167K and using bumper sub to beat down fish. Worked fish for 2 hrs and moved fish 2". Tie on to tbg and pumped down tbg at 0.5 BPM @ 2500 psi while working tbg from 167K to 90K. Gained 2" movement in fish. Bled off pressure and tied on to csg. Pressured csg to 3000 psi and saw no indication of circ on tbg. SDON
- 10/19/2011 RU wireline and backed off tbg at stop sub. TOOH w/ tbg and tools. Left stop sub, x-over, 3-1/8" DC, DC sub, x-over, and spear in hole. Start in hole w/ mill to drill up stop sub. TOF @ 9638'.
- 10/20/2011 SITP 80 psi. Blew dead in 20 secs. FIH w/ mill hitting tight spot @ 9627', but took less than a point to drop through. Set down @ 9630'. Worked tbg w/ swivel from 9615' to 9630' w/ swivel stalling each time @ 9627', but taking less than a point to drop through. Worked tight spot for 2 hrs w/ no show of metal in returns and blew hydraulic hose. SDON.

- 10/21/2011 SITP 175 psi. Blew dead in 15 secs. Worked through tight spot one time and then did not have any problems. Tagged fish @ 9638'. Milled on stop sub and made 3" in 30 min then slowed down. Returns showed good metal shavings. Made an additional 0.5" for a total of 3.5" for the day. TOOH w/ mill
- 10/22/2011 SITP 0 psi. RIH w/ new mill and tagged @ 9638'. Started milling, made 12" in 1st hour and 2" in 2nd hour. Made no hole in 3rd hour. TOOH w/ mill.
- 10/23/2011 SITP 0 psi. RIH w/ new mill and tagged @ 9639.5'. Started milling and didn't make much progress in 1st half hour. Pressure then went to 300 psi and started making hole. Returns showed good metal shavings and about 30% black scale. After 1 hr, scale slowed to an occasional showing, but still getting good metal returns.. After 4 hrs, still getting metal returns, but much smaller pieces. Total cut today - 3'. TOF @ 9642.5'. TOOH w/ mill. Found 2.55' piece of tie back sleeve jammed in shoe (explains increased pump pressure). Shoe was worn out and OD of face cracked. SDFWE.
- 10/25/2011 SITP - 60 psi. Blew dead in 45 secs. Ran impression block which showed 1/2 of tie back sleeve looking up w/ 4-1/2" OD. TIH w/ 6-1/8" concave mill. SDON.
- 10/26/2011 SITP - 100 psi. Blew dead in 45 secs. FIH and tag fish @ 9640'. Started milling Made 2.5' in 1st hour, after 1st hour rate slowed and quit making hole. Circ out gas. After 350 bbls gone, still had gas at surface. PU and shut down pump and still flowing. SIW and SITP increased to 250 psi in 15 min. Circ hole w/ prod wtr, SD pump and still bring gas to surface. Leave EOT @ 9615 & SDON
- 10/27/2011 SITP - 1300 psi. Open tbg to tank and bled down to 900 psi before unloading fluid. Opened csg to tank and bled to 700 psi before unloading fluid. Pumped 60 bbls brine down tbg to kill tbg. RU flowback iron and opened tbg on 12/64" choke. Tbg still dead and csg @ 600 psi and climbing. SDON. Will monitor pressures and flow through the night. Well SI pending engineering evaluation and procedure approval from BLM.