

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.*

OCD Artesia

5. Lease Serial No.  
NMLC067132

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No. **<25523>**  
EMPIRE 20 FEDERAL COM 29. API Well No.  
30-015-31046-00-D110. Field and Pool, or Exploratory  
TURKEY TRACK11. County or Parish, and State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

CIMAREX ENERGY CO

Contact: NATALIE E KRUEGER

E-Mail: nkrueger@cimarex.com

3a. Address

15 E 5TH ST STE 1000  
TULSA, OK 74103

3b. Phone No. (include area code)

Ph: 432-620-1936

Fx: 432-620-1940

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 20 T18S R29E SWSE 660FSL 1650FEL

Unit 8

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE 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 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 recompleat 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.)

Well currently producing from ~~Atoka~~ **Morrow** perfs @ 11138-11150. ~~Morrow~~ **Atoka** perfs @ 10658-70 were squeezed in 2001. Cimarex proposes to plug back to the Wolfcamp (oil) as shown below and on the attached procedure and plat.

Procedure:

1. MIRU pulling unit. Insure well is dead. POH with tubing and TAC. (Scan tubing.) Run gauge ring to top of plug at 11100. Dump bail 35 ft cement on top of plug. Run and set CIBP at 10600 and dump 35 ft of cement on top.

2. Load casing and pressure test to 6000 psi (if wellhead will allow).

Accepted for record - NMOCD

DJD 8-2-11

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL****RECEIVED**

JUL 20 2011

NMOCD ARTESIA

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

Electronic Submission #106677 verified by the BLM Well Information System

For CIMAREX ENERGY CO, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 04/20/2011 (11KMS1410SE)

Name (Printed/Typed) NATALIE E KRUEGER

Title REGULATORY ANALYST

Signature

(Electronic Submission)

Date 04/18/2011

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

Approved By TREY MITCHELL

Title PETROLEUM ENGINEER

Date 07/18/2011

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #106677 that would not fit on the form**

**32. Additional remarks, continued**

3. Rig up wireline truck. Run CBL from 10000 to 8000. Perforate Wolfcamp with a 3-1/8 inch casing gun and 3 spf as follows:

8912-20  
8952-64  
8977-80

4. Run tubing and treating packer. Set packer at 8850. Acidize perms with 5000 gal 15% HCl and 125 ball sealers. Swab back load and acid water. Evaluate fluid entry.

5. Install pumping unit and put on rod lift if warranted.

6. If production rates are unsatisfactory, MIRU pulling unit. POH with all producing equipment. Run and set CIBP @ 8900 and dump 35 ft cement on top.

7. Perforate Upper Wolfcamp with a 3-1/8 inch casing gun and 3 spf as follows.

8770-72  
8776-80  
8784-86

8. Run tubing and treating packer. Acidize perms with 3000 gal 15% HCl. Swab back load and acid water. Evaluate fluid entry.

9. Install pumping unit and put on rod lift if warranted.

## **Additional data for EC transaction #106677 that would not fit on the form**

### **22. Additional remarks, continued**

3. Rig up wireline truck. Run CBL from 10000 to 8000. Perforate Wolfcamp with a 3-1/8 inch casing gun and 3 spf as follows:

8912-20  
8952-64  
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9. Install pumping unit and put on rod lift if warranted.

**WORKOVER PROCEDURE**  
**Empire 20 Fed Com #2**  
**API # 30-015-31046**

KB - 3,530' (Gr + 17')

Surface Location: 660' FSL & 1650' FEL, Sec 20-T18S-R29E, Eddy Co., NM

13<sup>3</sup>/<sub>8</sub>", 48#, H-40 @ 404' w/ 375 sx cmt. TOC @ Surface

8<sup>5</sup>/<sub>8</sub>", 32#, J-55 @ 3,230' w/ 1750 sx cmt. TOC @ Surface

5<sup>1</sup>/<sub>2</sub>", 17#, S-95 & N-80 @ 11,300' 1<sup>st</sup> stage w/ 545 sx cmt. TOC at DV Tool. 2<sup>nd</sup> stage w/ 500 sx cmt. TOC 3050'. By TS.

TD - 11,300', PBTD (FC) - 11,255', DV Tool - 6,998'

Perfs:           05/00   11,138' - 50' (6 spf)  
                  06/00   10,658' - 70' (6 spf) Squeezed in 2001  
                  02/05   10,658' - 70' (6 spf)

Procedure:

1. MIRU pulling unit. Insure well is dead. POH with tubing and TAC. (Scan tubing.) Run gauge ring to top of plug at 11,100'. Dump bail 35' cement on top of plug. Run and set CIBP at 10'600' and dump 35' of cement on top.
2. Load casing and pressure test to 6000 psi (if wellhead will allow).
3. Rig up wireline truck. Run CBL from 10,000' to 8,000'. Perforate Wolfcamp with a 3-1/8" casing gun and 3 spf as follows:

8912'-20'  
8952'-64'  
8977'-80'

4. Run tubing and treating packer. Set packer at 8850'. Acidize perfs with 5000 gal 15% HCl and 125 ball sealers. Swab back load and acid water. Evaluate fluid entry.
5. Install pumping unit and put on rod lift if warranted.
6. If production rates are unsatisfactory, MIRU pulling unit. POH with all producing equipment. Run and set CIBP @ 8900' and dump 35' cement on top.
7. Perforate Upper Wolfcamp with a 3-1/8" casing gun and 3 spf as follows:

8,770'-72'  
8,776'-80'  
8,784'-86'

8. Run tubing and treating packer. Acidize perfs with 3000 gal 15% HCl. Swab back load and acid water. Evaluate fluid entry.
9. Install pumping unit and put on rod lift if warranted.

Note: Frac jobs will be designed and AFE'd separately if warranted.

### Current Completion

KB: 3530.0'  
DF: 3529.0'  
GL: 3513.0'  
Datum: 17.0' above GL

### Empire 20 Fed Com #2 - Current

Jim Howell 9/17/10

660' FSL & 1650' FEL  
Sec 20-T18S-R29E  
Eddy Co., NM

13-3/8", 48#, H-40 @ 404'  
cmt w/ 375 sx, TOC @ surface

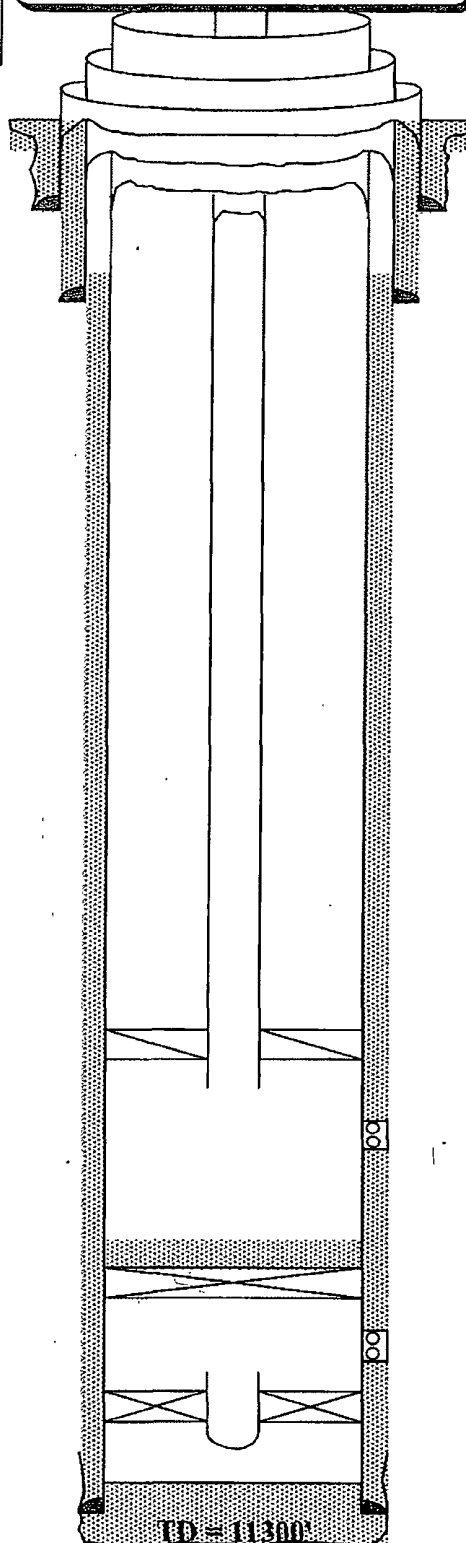
8-5/8", 32#, J-55 @ 3230'  
cmt w/ 1950 sx, TOC @ surface

DV Tool @ 6998'  
cmt w/ 500 sx, TOC 2nd stg. @ 3067'

TAC @ ??? (est to be 10,620')

CIBP @ 11,100' w/ 2 sx on top

Top of fish @ 11,156'  
(1-1/2 jts 2-3/8", PermaLatch &  
Perf tools)  
PBTD = 11,247' (FC 11,255')  
5-1/2", 17#, S-95 & N-80 @ 11,300'  
cmt w/ 445 sx, TOC 1st stage @ DV



Perfed 10658'-70' w/ 6 spf (Atoka)

Perfed 11,138'-50' w/ 6 spf

TD = 11300'

# Current Completion

KB: 3530.0'  
DF: 3529.0'  
GL: 3513.0'  
Datum: 17.0' above GL

# Empire 20 Fed Com #2 - Proposed

Jim Howell 9/17/10

660' FSL & 1650' FFL  
Sec 20-T18S-R29E  
Eddy Co., NM

13-3/8", 48#, H-40 @ 404'  
cmt w/ 375 sx, TOC @ surface

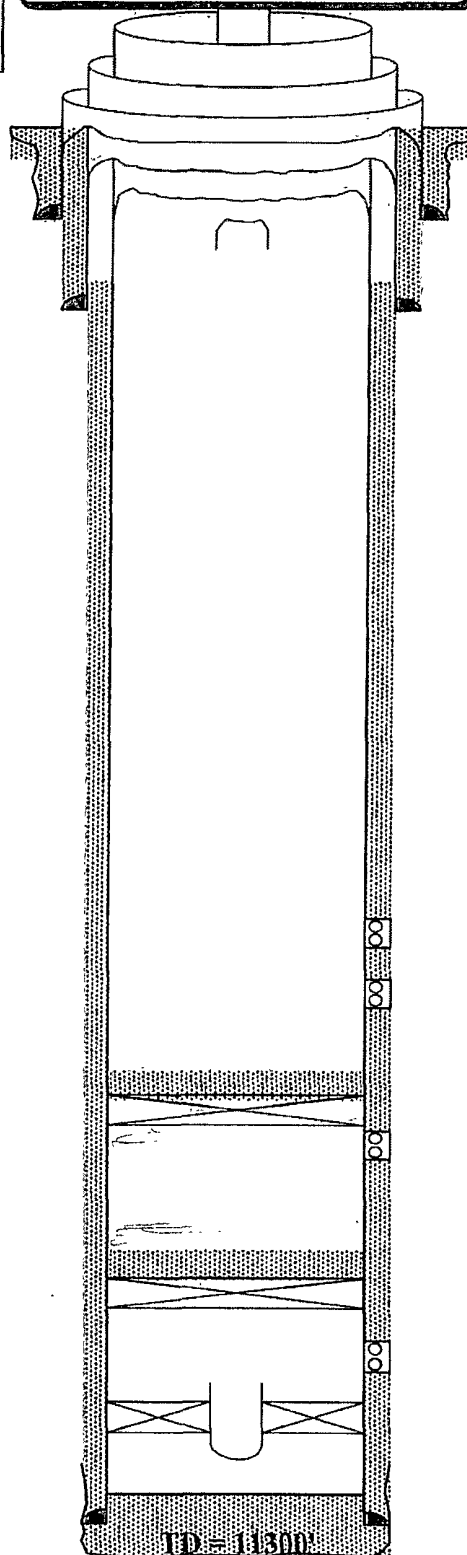
8-5/8", 32#, J-55 @ 3230'  
cmt w/ 1950 sx, TOC @ surface

DV Tool @ 6998'  
cmt w/ 500 sx, TOC 2nd stg. @ 3067'

CIBP @ 10,600' w/ 35' on top

CIBP @ 11,100' w/ 2 sx on top  
Add 35' cmt

Top of fish @ 11,156'  
(1-1/2 jts 2-3/8", PermaLatch &  
Perf tools)  
PBTD = 11,247' (FC 11,255')  
5-1/2", 17#, S-95 & N-80 @ 11,300'  
cmt w/ 445 sx, TOC 1st stage @ DV



Perf Wolfcamp: 8770'-86' 3' spf

Perf Wolfcamp: 8912'-80' 3' spf

Perfed 10658'-70' w/ 6 spf (Atoka)

Perfed 11,138'-50' w/ 6 spf

**Empire 20 Federal Com #2  
30-015-31046  
Cimarex Energy Co. of Colorado  
July 18, 2011  
Conditions of Approval**

1. Class H cement must be used when placing cement on the CIBP's.
2. Surface disturbance beyond the originally approved pad must have prior approval.
3. Closed loop system required.
4. Operator to have H2S monitoring equipment on location as H2S has been reported from wells in the area.
5. Subsequent sundry with completion record and wellbore schematic required.

**TAM 071811**



## DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

APD is for N ☐ P ☒ E ☐ A ☐ D ☐WELL TYPE: O ☐ G ☐ I ☐ S ☐ OTHER ☐Operator Cimarex Energy Corp OGRID # 1626983Well Name & # Empire 20 Fed Com #2 Surface Type (F) (S) (P)Location: UL 8, Sect 20 Township 18 s, RNG 2 e, Sub-surface Type (F) (S) (P)1: BHL @: UL    , Sect    , Township     s, RNG     e, H     DD    2: BHL @: UL    , Sect    , Township     s, RNG     e, H     DD    A. Date C101 rec'd 7/20/11 C101 reviewed     /     /    

B. 1. Check mark, Information is OK on Forms:

OGRID    , BONDING ☒, PROP CODE    , WELL #    , SIGNATURE    2. Inactive Well list as of: 8/25/11 # wells 6, # Inactive wells 1216

a. District Grant APD but see number of inactive wells:

No letter required ☒; Sent Letter to Operator    , to Santa Fe    3. Additional Bonding as of: 8/25/11

a. District Denial because operator needs addition bonding:

No Letter required ☒; Sent Letter to Operator    , To Santa Fe    

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required ☒; Sent Letter to Operator    , To Santa Fe    C102 YES ☒, NO ☐, Signature    1. Pool Loco Hills Wellcamp East Code 97240a. Dedicated acreage 40, What Units 2b. SUR. Location Standard ☒: Non-Standard Location    c. Well shares acres: Yes ☐, No ☒, # of wells     plus this well #    2. 2<sup>nd</sup>. Operator in same acreage, Yes    , No ☒ WELL(S) SHARING:WELL(S) BY 2<sup>nd</sup> OPER: Agreement Letter    , Disagreement letter    3. Intent to Directional Drill Yes    , No ☒Dedicated acreage    , What Units    Bottomhole Location Standard    , Non-Standard Bottomhole    4. Downhole Commingle: Yes    , No ☒a. Pool #2    , Code    , Acres    Pool #3    , Code    , Acres    Pool #4    , Code    , Acres    5. POTASH Area Yes ☒, No ☐C. Blowout Preventer Yes    , No ☒D. H2S Yes    , No ☒E. C144 Pit Registration Yes    , No    

F. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes    , No ☒, NSL #    2. Non-Standard Proration: Yes    , No ☒, NSP #    3. Simultaneous Dedication: Yes    , No ☒, SD #    Number of wells     Plus #    4. Injection order Yes    , No ☒; PMX #     or WFX #    5. SWD order Yes    , NO ☒; SWD #    6. DHC from SF    ; DHC-HOB    ; Holding    7. OCD Approval Date 8/25/11

API #30-015 -- 31046

8. Reviewers dm