

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**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.*

HOBBS OCD

MAY 25 2017

RECEIVED

5. Lease Serial No.  
NMNM4314

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
PIPELINE DEEP 5 FEDERAL 039. API Well No.  
30-025-37196-00-C210. Field and Pool or Exploratory Area  
Multiple--See Attached11. County or Parish, State  
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

## 2. Name of Operator

CIMAREX ENERGY COMPANY OF CO

Contact: AMITHY CRAWFORD

E-Mail: acrawford@cimarex.com

## 3a. Address

202 S CHEYENNE AVE. SUITE 1000  
TULSA, OK 74103

## 3b. Phone No. (include area code)

Ph: 432.620.1909

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

Sec 5 T19S R34E SWNE 1650FNL 1340FEL  
32.692416 N Lat, 103.578315 W Lon

## 12. CHECK THE 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"/> Hydraulic Fracturing	<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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Notify BLM 24 hours prior to starting operations

Max Treating Pressure = 6,000 psi

7700' of 3-1/2" 12.95# P110 will need to be rented for frac string

1. Hold operational safety meeting on location; discuss all risk and potential dangers.

2. MIRU Pulling unit.

3. Kill well if necessary w/ 2% KCL.

4. TOO H w/ Rods, Pump, and Tbg.

5. PU 4-3/4" bit and 5-1/2" casing scraper, RIH to 11,355'.

6. TOO H, LD bit and scraper. PU 5-1/2" CIBP.

7. TIH to 14,350' and set CIBP: - 11,300'

8. Release from the CIBP and PU 1 joint. Circulate well w/ 315 bbls of 2% KCL.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Electronic Submission #369590 verified by the BLM Well Information System

For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs

Committed to AFMSS for processing by PRISCILLA PEREZ on 03/15/2017 (17PP0362SE)

Name (Printed/Typed) AMITHY CRAWFORD

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 03/13/2017

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

[Signature]

Title

Eng

Date

5/19/17

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

OFO

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.

(Instructions on page 2)

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

msb/ecd 5/25/2017

**Additional data for EC transaction #369590 that would not fit on the form**

**10. Field and Pool, continued**

QUAIL RIDGE

**32. Additional remarks, continued**

9. RIH to 11,354' and spot balanced plug w/ 55 sxs of class H cement on top of CIBP also covering the top of the Wolfcamp formation.

10. PU tbg to 10,600'. Reverse circulate 22 bbls of mud-laden fluids. Flush with 147 bbls of 2% KCL, leaving mud fluids at EOT in the wellbore.

11. Allow proper time for cement to set up.

12. TIH and tag cement plug @ 10,639'.

13. TOOH. PU another 5-1/2" CIBP.

14. TIH to 9,680' and set CIBP. 9680

*CIBP to be set 100'-50' above perms.*

15. Release from the CIBP.

16. PU 1' off the CIBP and spot balanced plug w/ 50 sxs of class H cement on top of CIBP also covering the top of the Bone Spring formation.

17. PU tbg to 9,000'. Reverse circulate 80 bbls of 2% KCL to ensure tubing is clean.

18. TOOH w/ 2-7/8" tbg and LD.

19. RU WL. RIH w/ Select fire perforating guns and a gamma ray gun.

a. Correlate gamma ray back to Halliburton "Dual Laterolog Microguard" dated 25-DEC-2005

20. Perforate 7800' - 7812' & 5720' - 5742' w/ 3 SPF, 041" EH, and 120-degree phasing.

21. RD WL. TIH w/ 7,700' of 3-1/2" 12.95# P110 Tbg, 3-1/2" x 2-7/8" XO, and 2-7/8" x 5-1/2"

Treating packer to 7,700'.

a. Hydrotest 3-1/2" tbg to 6,000 psi while TIH.

22. Set Packer in 20 pts Compression at 7,700'.

23. RU Frac Crew and pressure test lines to MTP: 6,000 psi.

24. Frac the 1st stage w/ 32,000 lbs of proppant and 30,000 gals of slickwater with 17# Linear Gel and 17# XL Borate.

25. PU 3-1/2" tbg and treating packer to 5,600'. Set packer in 20 pts compression.

26. Frac the 2nd stage w/ 42,000 lbs of proppant and 35,481 gals of slickwater with 17# Linear Gel and 17 # XL Borate.

27. RU flowback equipment in such a way that production can be turned to the battery once hydrocarbons are detected.

28. Flow back well until it dies (if it flows at all).

29. TOOH w/ 3-1/2" tbg and packer.

30. RIH w/ 2-7/8" tbg and rods.

31. Return to production.



DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
811 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-37196	Pool Code 96531	Pool Name Dios Mano; Delaware, South
Property Code	Property Name PIPELINE DEEP "5" FEDERAL	Well Number 3
OGRID No. 162683	Operator Name Cimarex Energy Co. of Colorado	Elevation 3869'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	5	19 S	34 E		1650	NORTH	1340	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40		Joint or Infill	Consolidation Code		Order No. NSL-5613, DHC-3883				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p></p> <p>Signature</p> <p>Amithy Crawford</p> <p>Printed Name</p> <p>Regulatory Analyst</p> <p>Title</p> <p>03/13/2017</p> <p>Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>December 1, 2004</p> <p>Date Surveyed</p> <p></p> <p>Signature &amp; Seal of Professional Surveyor</p> <p></p> <p>W.O. No. 4797</p> <p>Certificate No. Gary L. Jones 7977</p> <p>JLP BASIN SURVEYS</p>



AFE No:

**Procedure Sheet – Hobbs District**

PLEASE COMMENCE WITH WORK PER PROCEDURE

**Pipeline Deep 5 Federal 3**

Recomplete Well in Cherry Canyon and Lower Brushy

Current Well Data:

KB 28' above GL  
TVD/PBTD 13,742'/13,626'  
KOP N/A Vertical Well  
Perfs Bone Spring (9692' – 9735')  
Wolfcamp (11,361' – 11,378')

Casing

Size	Weight	Grade	Thread	Set at	Cmt	Remarks
13-3/8"	48#	H-40	ST&C	432'	410 sx	cir cmt
9-5/8"	40#	K-55	LT&C	3518'	1200 sx	cir cmt
5-1/2"	17#	P-110	BT&C	13742'	2155 sx	TOC @ 1250'

Tubing

Quantity	Description	Length	Setting Depth
289	2-7/8" 6.5# L-80 8rd EUE Tubing	9,022.58	9050.58
1	TAC 5.5 X 2 7/8" w Carbide Slips	2.7	9053.28
74	2-7/8" 6.5# L-80 8rd EUE Tubing	2,366.68	11419.96
1	Mechanical SN	0.8	11420.76
1	Bull plugged perforated sub	4.1	11424.86

Rods

Quantity	Description	Length	Setting Depth
1	1.5" x 24' SM Polished rod	24	24
1	Pony Rods 2-2' N-97	4	28
121	1" Grade 97 Rods	3,025.00	3053
122	7/8" Grade 97 Rods	3,050.00	6103
205	3/4" Grade 97 Rods	5,125.00	11228
1	1.5" X 25	150	11378
1	25-125-24 RHBM w striner nipple	24	11402

Procedure:**Notify BLM 24 hours prior to starting operations****Max Treating Pressure = 6,000 psi****7700' of 3-1/2" 12.95# P110 will need to be rented for frac string**



AFE No:

1. Hold operational safety meeting on location; discuss all risk and potential dangers.
2. MIRU Pulling unit.
3. Kill well if necessary w/ 2% KCL.
4. TOOH w/ Rods, Pump, and Tbg.
5. PU 4-3/4" bit and 5-1/2" casing scraper. RIH to 11,355'.
6. TOOH, LD bit and scraper. PU 5-1/2" CIBP.
7. TIH to 11,350' and set CIBP.
8. Release from the CIBP and PU 1 joint. Circulate well w/ 315 bbls of 2% KCL.
9. RIH to 11,354' and spot balanced plug w/ 55 sxs of class H cement on top of CIBP also covering the top of the Wolfcamp formation.
10. PU tbg to  $\pm 10,600'$ . Reverse circulate 22 bbls of mud-laden fluids. Flush with 147 bbls of 2% KCL, leaving mud fluids at EOT in the wellbore.
11. Allow proper time for cement to set up.
12. TIH and tag cement plug @  $\pm 10,639'$ .
13. TOOH. PU another 5-1/2" CIBP.
14. TIH to 9,680' and set CIBP.
15. Release from the CIBP.
16. PU 1' off the CIBP and spot balanced plug w/ 50 sxs of class H cement on top of CIBP also covering the top of the Bone Spring formation.
17. PU tbg to  $\pm 9,000'$ . Reverse circulate 80 bbls of 2% KCL to ensure tubing is clean.
18. TOOH w/ 2-7/8" tbg and LD.
19. RU WL. RIH w/ Select fire perforating guns and a gamma ray gun.
  - a. Correlate gamma ray back to Halliburton "Dual Laterolog Microguard" dated 25-DEC-2005
20. Perforate 7800' – 7812' & 5720' – 5742' w/ 3 SPF, 041" EH, and 120-degree phasing.
21. RD WL. TIH w/ 7,700' of 3-1/2" 12.95# P110 Tbg, 3-1/2" x 2-7/8" XO, and 2-7/8" x 5-1/2" Treating packer to 7,700'.
  - a. Hydrotest 3-1/2" tbg to 6,000 psi while TIH.
22. Set Packer in 20 pts Compression at 7,700'.
23. RU Frac Crew and pressure test lines to **MTP: 6,000 psi**.
24. Frac the 1<sup>st</sup> stage w/ 32,000 lbs of proppant and 30,000 gals of slickwater with 17# Linear Gel and 17# XL Borate.





AFE No:

25. PU 3-1/2" tbg and treating packer to 5,600'. Set packer in 20 pts compression.
26. Frac the 2<sup>nd</sup> stage w/ 42,000 lbs of proppant and 35,481 gals of slickwater with 17# Linear Gel and 17 # XL Borate.
27. RU flowback equipment in such a way that production can be turned to the battery once hydrocarbons are detected.
28. Flow back well until it dies (if it flows at all).
29. TOOH w/ 3-1/2" tbg and packer.
30. RIH w/ 2-7/8" tbg and rods.
31. Return to production.

**CIMAREX****Cimarex Energy Co. of Colorado****PIPELINE DEEP "5" FED #3**

API 30-025-37196

1650' FNL &amp; 1340' FEL, Sec 5, Unit G, T19S R34E

Lea County, NM

GL:3869' KB: 3897'

13 3/8" 48# H-40 csg @ 432'  
Cmt w/410 sx, circ to surface

17 1/2" hole to 435'

5-1/2" TOC = 1200' by TS

9 5/8" 40# K55 csg @ 3518'  
Cmt w/1200 sx, circ to surface

12 1/4" hole to 3500'

DV Tool @ 9828'  
Cmt w/995 sx Interfill "C"  
Tail w/420 sx Super "H"  
TOC @ 1250' by CBL

Bone Spring: 9692' to 9735', 3 JSPF, 42 holes (3/26/07)

Wolfcamp: 11,361' to 11,378' w/ 3 JSPF (3/13/07)

CIBP @ 13,135' + 35' cmt (3/13/2007)

U Morrow: 13,158' - 13,400', 6 JSPF (3/29/06)

U Morrow: 13,481' to 13,495', 6 JSPF (3/12/06)

L Morrow: 13,441' to 13,550', 3 JSPF, 60 holes, (1/24/06)

5 1/2" 17# P-110 csg @ 13,742'  
Cmt w/200 sx Interfil "H"  
Tail w/500 sx Super "H"  
DV Tool @ 9828'

PBSD: 13626'

TD: 13,742'

M Ketter, J Piwetz

Proposed



**Cimarex Energy Co. of Colorado**

**PIPELINE DEEP "5" FED #3**

API 30-025-37196

1650' FNL & 1340' FEL, Sec 5, Unit G, T19S R34E

Lea County, NM

GL:3869' KB: 3897'

13 3/8" 48# H-40 csg @ 432'  
Cmt w/410 sx, circ to surface

17 1/2" hole to 435'

5-1/2" TOC = 1200' by TS

9 5/8" 40# K55 csg @ 3518'  
Cmt w/1200 sx, circ to surface

12 1/4" hole to 3500'

DV Tool @ 9828'  
Cmt w/995 sx Interfill "C"  
Tail w/420 sx Super "H"  
TOC @ 1250' by CBL

Cherry Canyon Perfs @ 5720' - 5742'

Lower Brushy Perfs @ 7800' - 7812'

50 Sxs Class H, TOC @ 9,034'  
CIBP @ 9,680'  
9640

Top of Bone Spring @ 9,136'

Bone Spring: 9692' to 9735', 3 JSPF, 42 holes (3/26/07)

55 Sxs Class H, TOC @ 10,639'  
CIBP @ 11,350'  
11,300

Top of Wolfcamp @ 10,700'

Wolfcamp: 11,361' to 11,378' w/ 3 JSPF (3/13/07)

CIBP @ 13,135' + 35' cmt (3/13/2007)

U Morrow: 13,158' - 13,400', 6 JSPF (3/29/06)

U Morrow: 13,481' to 13,495', 6 JSPF (3/12/06)

L Morrow: 13,441' to 13,550', 3 JSPF, 60 holes, (1/24/06)

5 1/2" 17# P-110 csg @ 13,742'  
Cmt w/200 sx Interfil "H"  
Tail w/500 sx Super "H"  
DV Tool @ 9828'

PBTD: 13626'  
TD: 13,742'

M Ketter, J Piwetz



**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

**Permanent Abandonment of Production Zone Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from this approval.

**If you are unable to plug back the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement.

**Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted