

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

HOBBS OCD
AUG 06 2017
RECEIVED

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 page 2

Carlsbad Field Office

OCD Hobbs

5. Lease Serial No.
NMNM0141013

6. Indian, Allottee or Tribe Name

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

8. Well Name and No.
MESCALERO 19 FEDERAL 2

9. API Well No.
30-025-37999

10. Field and Pool or Exploratory Area
TEAS BONE SPRING

11. County or Parish, State
LEA COUNTY, NM

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
CIMAREX ENERGY CO OF COLORADO
Contact: AMITHY CRAWFORD
Email: acrawford@cimarex.com

3a. Address
202 S. CHEYENNE AVE STE 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 19 T19S R34E 1650FSL 990FWL

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.

Cimarex Energy Respectfully requests to plug back the morrow formation and recompleat into the bone spring formation.

Notify BLM 24 hours prior to starting operations
Max Treating Pressure = 8,500 psi
Have # Frac Tanks rented and set before frac
Have 9200' of 3-1/2" 12.95# P110 rental string for frac

1. Hold operational safety meeting on location; discuss all risk and potential dangers
2. MIRU Pulling unit.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Electronic Submission #374189 verified by the BLM Well Information System
For CIMAREX ENERGY CO OF COLORADO, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH MCKINNEY on 05/01/2017 ()

Name (Printed/Typed) AMITHY CRAWFORD

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/27/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Mustafa Haguel

Title **PETROLEUM ENGINEER 1 2017**

Date **8-1-2017**

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 **CFO**

BUREAU OF LAND MANAGEMENT

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)

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

KZ

Additional data for EC transaction #374189 that would not fit on the form

32. Additional remarks, continued

3. Kill well if necessary w/ 2% KCL.
4. TOOH w/ 2-3/8" tbg.
5. PU 4-3/4" bit and 5-1/2" casing scraper. RIH to 13,160'.
6. TOOH, LD bit and scraper. PU 5-1/2" CIBP.
7. TIH to 13,155' and set CIBP. *spot 25 sacks of C/H cement on top of CIBP. woc & Tag*
8. Release from the CIBP and PU 1 joint, Circulate well w/ 375 bbls of 2% KCL.
9. TOOH w/ 2-3/8" tbg and LD.
10. Pressure test casing to 500 psi. Hold for 30 minutes.
 - a. Bleed off pressure after 30 minutes.
11. RU WL. RIH w/ Select fire perforating guns and a gamma ray gun.
 - a. Correlate gamma ray back to Halliburton "Spectral Density/Dual Spaced Neutron/ Gamma Ray Log" dated 18-SEP-2006 @
12. Perforate the 1st Bone Spring, 9,281' - 9,671' w/ 0.41" EH, 120-degree phasing' and 40 total shots.
13. RD WL. RU Frac Crew and pressure test lines to MTP: 8,500 psi.
14. Frac the perforated interval w/ 400,000 lbs of proppant and 227,682 gals of slickwater with 17# linear gel and 17# XL borate.
15. RU flowback equipment in such a way that production can be turned to the battery once hydrocarbons are detected.
16. Flowback well until it dies (if at all).
17. Set pumping unit. RIH w/ tbg and rods.
18. Return to production.



KB - 17' above GL

Cimarex Energy Co. of Colorado

Mescalero 19 Federal 2

1650' FSL & 990' FWL

Sec. 19, T-19-S, R-34-E, Lea Co., NM

E. Serrano

06/20/2016

CURRENT

13-3/8" 48# H-40 ST&C csg @ 1367'
cmtd w/925 sx, cmt circ

9-5/8" 40# J-55 LT&C @ 4776'
cmtd w/1800 sx, cmt circ

418 jts 2-3/8" 4.7# 8rd L-80 Tbg

5-1/2" TOC @ 7575' (CBL)

CBP @ 13,285'

CIBP @ 13,420' w/2 sx cmt on top

PBTD @ 13,285'

TD @ 13645'

Middle Morrow A: 13,167' - 188' (6 SPF, 12.15.06)
13,188' - 192' & 196' - 198' (6 SPF, 11.21.06)

Middle Morrow B: 13,226' - 13,232' (6 SPF, 11.15.06)

Middle Morrow C: 13,301' - 13,328' (6 SPF, 10.19.06)

Lower Morrow: 13,468' - 13,478' (6 SPF, 10.12.06)

5-1/2" 17# P-110 @ 13645' cmtd w/1245 sx



KB - 17' above GL

Cimarex Energy Co. of Colorado

Mescalero 19 Federal 2

1650' FSL & 990' FWL

Sec. 19, T-19-S, R-34-E, Lea Co., NM

E. Serrano

06/20/2016

Delaware Top = 6545'

BS Top = 8010'

WC Top = 11074'

PROPOSED

13-3/8" 48# H-40 ST&C csg @ 1367'
cmtd w/925 sx, cmt circ

9-5/8" 40# J-55 LT&C @ 4776'
cmtd w/1800 sx, cmt circ

418 jts 2-3/8" 4.7# 8rd L-80 Tbg

5-1/2" TOC @ 7575' (CBL)

1st BSPG Perfs @ 9320' - 9720'

* Wolfcamp needs to be plugged if operator doesn't plan on producing from Wolfcamp in the future.

Spot C/S H cement from 10944' - 11124' WOC & Tag. (WC plug) - WC Top @ 11074'

CIBP @ 13,155'

25 sxs of cement on top of CIBP - WOC & Tag

CBP @ 13,285'

CIBP @ 13,420' w/2 sx cmt on top

Middle Morrow A: 13,167' - 188' (6 SPF, 12.15.06)

13,188' - 192' & 196' - 198' (6 SPF, 11.21.06)

Middle Morrow B: 13,226' - 13,232' (6 SPF, 11.15.06)

Middle Morrow C: 13,301' - 13,328' (6 SPF, 10.19.06)

Lower Morrow: 13,468' - 13,478' (6 SPF, 10.12.06)

5-1/2" 17# P-110 @ 13645' cmtd w/1245 sx

PBTD @ 13,285'

TD @ 13645'



AFE No:

Procedure Sheet – Hobbs District

PLEASE COMMENCE WITH WORK PER PROCEDURE

Mescalero 19 Fed 2Recomplete Well in 1st Bone SpringCurrent Well Data:

KB 17' above GL
TVD/PBTD 13,645'/13,285'
KOP N/A Vertical Well
Perfs Morrow (13,167' - 13,232')

Casing

Size	Weight	Grade	Thread	Set at	Cmt	Remarks
13-3/8"	48#	H-40	ST&C	1367'	925 sx	cir cmt
9-5/8"	40#	J-55	LT&C	4776'	1800 sx	cir cmt
5-1/2"	17#	P-110		13645'	1245 sx	TOC @ 7575'

Tubing 418 jts of 2-3/8" 6.5# 8rd J55

Procedure:**Notify BLM 24 hours prior to starting operations****Max Treating Pressure = 8,500 psi****Have # Frac Tanks rented and set before frac****Have 9200' of 3-1/2" 12.95# P110 rental string for frac**

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/ 2-3/8" tbg.
5. PU 4-3/4" bit and 5-1/2" casing scraper. RIH to 13,160'.
6. TOOH, LD bit and scraper. PU 5-1/2" CIBP.
7. TIH to 13,155' and set CIBP. *25 sxs of cement on top of CIBP & WOC - Tag*
8. Release from the CIBP and PU 1 joint, Circulate well w/ 375 bbls of 2% KCL.
9. TOOH w/ 2-3/8" tbg and LD.
10. Pressure test casing to **500 psi**. Hold for 30 minutes.
 - a. Bleed off pressure after 30 minutes. *→ Wolf camp needs to be plugged if operation don't plan on producing well. Also, spot CISH cement from 10914' - 111214' - WOC & Tag*
11. RU WL. RIH w/ Select fire perforating guns and a gamma ray gun.



AFE No:

- a. Correlate gamma ray back to Halliburton "Spectral Density/Dual Spaced Neutron/ Gamma Ray Log" dated 18-SEP-2006 @
12. Perforate the 1st Bone Spring, 9,281' – 9,671' w/ 0.41" EH, 120-degree phasing, and 40 total shots.
13. RD WL. RU Frac Crew and pressure test lines to **MTP: 8,500 psi**.
14. Frac the perforated interval w/ 400,000 lbs of proppant and 227,682 gals of slickwater with 17# linear gel and 17# XL borate.
15. RU flowback equipment in such a way that production can be turned to the battery once hydrocarbons are detected.
16. Flowback well until it dies (if at all).
17. Set pumping unit. RIH w/ tbg and rods.
18. Return to production.

Mescalero 19 Federal 2
30-025-37999
Cimarex Energy
Conditions of Approval

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise. Exceptions to these restrictions may be granted by BLM's Cassandra Brooks <crbrooks@blm.gov> 575.234.2232

Notify BLM at 575-393-3612 (Lea County) a minimum of 24 hours prior to commencing work.

Work to be completed by November 01, 2017.

1. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.
2. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
3. Surface disturbance beyond the originally approved pad must have prior approval.
4. Closed loop system required.
5. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

6. Operator to have H2S monitoring equipment on location.
7. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
8. **Wolfcamp needs to plugged if operator does not intend on producing from Wolfcamp in the future.**
 - Spot class H cement from 10914' – 11214' – WOC and Tag.
9. **Subsequent sundry required detailing work done, a C-102 form, and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.**
10. See attached for General Plugback Guidelines

MHH 08012017

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. Plug back operations shall commence within ninety (90) days from this approval. **If you are unable to plug back the well by the 90th day provide this office, prior to the 90th 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. For wells in Lea County, call 575-393-3612**
 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.** If plugging back to a new zone submit a Completion Report, form 3160-4 with the Subsequent Report.
 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.