

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

Carlsbad Field Office

**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.*

5. Lease Serial No.  
NMNM0141013

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit or CA/Agreement, Name and/or No.  
NMNM116752

8. Well Name and No.  
MESCALERO 19 FEDERAL 01

9. API Well No.  
30-025-35982-00-S1

10. Field and Pool or Exploratory Area  
QUARTZ RIDGE  
APPROX 1135

11. County or Parish, State  
LEA COUNTY, NM

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 19 T19S R34E NWSE 1980FSL 1650FEL  
32.643878 N Lat, 103.596445 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 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 must 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 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 recomplete into the bone spring formation.

Notify BLM 24 hours prior to starting operations  
Max Treating Pressure = 8,500 psi

1. Hold operational safety meeting on location; discuss all risk and potential dangers.
2. MIRU Pulling unit.
3. Retrieve plunger before starting operations. Kill well if necessary w/ 2% KCL.
4. TOOH w/ 2-3/8" tbg. Find and remove plunger collar stop @ ~13,220'.
5. PU 4-3/4" bit and 5-1/2' casing scraper. RIH to 13,155'.
6. TOOH, LD bit and scraper. PU 5-1/2" CIBP.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

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

Electronic Submission #374187 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 05/01/2017 (17DLM0961SE)

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 <u>ZOTA STEVENS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>07/01/2017</u>
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 Hobbs

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 \*\***

## Additional data for EC transaction #374187 that would not fit on the form

### 32. Additional remarks, continued

7. TIH to 13,150' and set CIBP. *Spot 25 sks or 35' of bump bar!*
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 Max Treating Pressure: 8,500 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 "Gamma Ray/CCL Cement Bond/ MSG Log" dated 16-JUL-03 @ 17:00
12. Perforate the 1st Bone Spring, 9,285'- 9,667' w/ 0.41" EH, 120-degree phasing, and 41 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 231,536 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 - 23' above GL

Cimarex Energy Co. of Colorado

Mescalero 19 Federal 1

1980' FSL & 1650' FEL

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

E. Serrano

10/26/2015

13-3/8" 54.5# J-55 csg @ 444'  
cmtd w/490 sx, cmt circ

9-5/8" 40# NS-110 csg @ 3052'  
cmtd w/1135 sx, cmt circ

# CURRENT

← 426 jts 2-3/8" 6.5# 8rd J-55 Tbg

2-3/8" Dual Pad Plunger in well  
SN @ 13220'  
End of tbg @ 13221'

Morrow: 13162' - 13182' (2006 & re-perfed)  
Morrow: 13250' - 258', 13278' - 282', 13290' - 298' (2005)

Morrow: 13446' - 13454' (2003)

5-1/2" 17# P-110 @ 13720' cmtd w/2440 sx  
TOC @ 3290' (CBL)

CIBP @ 13395' (2006)

PBTD @ 13638'

TD @ 13720'



Cimarex Energy Co. of Colorado

Mescalero 19 Federal 1

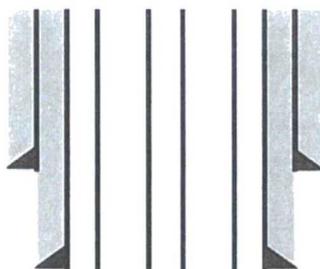
1980' FSL & 1650' FEL

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10/26/2015

KB - 23' above GL



13-3/8" 54.5# J-55 csg @ 444'  
cmtd w/490 sx, cmt circ

9-5/8" 40# NS-110 csg @ 3052'  
cmtd w/1135 sx, cmt circ

2-3/8" Dual Pad Plunger in well

TOC @ 3290' (CBL)

BS Top = 8010'  
WC Top = 12,814'

# PROPOSED

426 jts 2-3/8" 6.5# 8rd J-55 Tbg

1st BSPG Perfs @ 9285' - 9667'

*Operat Wolfcamp must be plugged if operator do not have plan producing in the future  
Plan producing from the Wolfcamp in the future.*

10664 spot class H cement from 10664' - 10864' woc & tag. (woc plug)

10864

spot 25 sks Class H or 35' of cement dump bet

CIBP @ 13,150'

Morrow: 13162' - 13182' (2006 & re-perfed)

Morrow: 13250' - 258', 13278' - 282', 13290' - 298' (2005)

CIBP @ 13395' (2006)

Morrow: 13446' - 13454' (2003)

PBTD @ 13638'

5-1/2" 17# P-110 @ 13720' cmtd w/2440 sx

TOC @ 3290' (CBL)

TD @ 13720'



AFE No:

**Procedure Sheet – Hobbs District**  
PLEASE COMMENCE WITH WORK PER PROCEDURE

**Mescalero 19 Fed 1**  
Recomplete Well in 1<sup>st</sup> Bone Spring

Current Well Data:

KB 23' above GL  
TVD/PBTD 13,720'/13,638'  
KOP N/A Vertical Well  
Perfs Morrow (13,162' - 13,298')

Casing

Size	Weight	Grade	Thread	Set at	Cmt	Remarks
13-3/8"	54.5#	J-55	ST&C	444'	490 sx	cir cmt
9-5/8"	40#	NS-110	LT&C	3052'	1135 sx	cir cmt
5-1/2"	17#	P-110	LT&C	13720'	2440 sx	TOC @ 3290'

Tubing 426 jts of 2-3/8" 6.5# 8rd J55  
Plunger Collar Stop 13,220'

Procedure:

**Notify BLM 24 hours prior to starting operations**  
**Max Treating Pressure = 8,500 psi**

1. Hold operational safety meeting on location; discuss all risk and potential dangers.
2. MIRU Pulling unit.
3. Retrieve plunger before starting operations. Kill well if necessary w/ 2% KCL.
4. TOOH w/ 2-3/8" tbg. Find and remove plunger collar stop @ ~13,220'.
5. PU 4-3/4" bit and 5-1/2" casing scraper. RIH to 13,155'.
6. TOOH, LD bit and scraper. PU 5-1/2" CIBP.
7. TIH to 13,150' and set CIBP. *Spot 25 slcs of Class H or 35' of cement dump ball*
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 **Max Treating Pressure: 8,500 psi**. Hold for 30 minutes.
  - a. Bleed off pressure after 30 minutes. *WC must be plugged if operator don't have plans produce from Wolfcamp in the future. Spot Class H cement from 10664 - 10864.*
11. RU WL. RIH w/ Select fire perforating guns and a gamma ray gun.

- a. Correlate gamma ray back to Halliburton "Gamma Ray/CCL Cement Bond/ MSG Log" dated 16-JUL-03 @ 17:00
12. Perforate the 1<sup>st</sup> Bone Spring, 9,285' – 9,667' w/ 0.41" EH, 120-degree phasing, and 41 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 231,536 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 1**  
**30-025-35982**  
**Cimarex**  
**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. 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 1, 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 must be plugged if operator don not have plan of producing from the Wolfcamp in the future.**
  - **Wolfcamp plug: Spot class H cement from 10,864'-10664'. WOC**
  
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**

**ZMS 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 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. 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.