Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 3 2015
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.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	5. Lease Serial No. NMLC065347
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA/Agreement, Name and/or No.
	8. Well Name and No. WHITE CITY PENN 28 GAS COM UTI 4
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: ARICKA EASTERLING E-Mail: aeasterling@cimarex.com	9. API Well No. 30-015-33862-00-S1
3a. Address 202 S CHEYENNE AVE SUITE 1000 TULSA, OK 74103.4346 3b. Phone No. (include area code) Ph: 918-560-7060	10. Field and Pool, or Exploratory WHITE CITY
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* Sec 28 T24S R26E NESW 1980FSL 1500FWL	11. County or Parish, and State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☒ Plug Back	☐ 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 respectfully requests approval to recomplete the White City Penn 28 Unit 3 #4 to the Bone Spring.

Please see attached procedure, current WBD and proposed WBD.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

8/12/15
Accepted for record
NMOCD

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

Electronic Submission #310093 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 07/24/2015 (15JAS0443SE)

Name *(Printed/Typed)* ARICKA EASTERLING — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 07/23/2015

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date JUL 24 2015

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 BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 ****

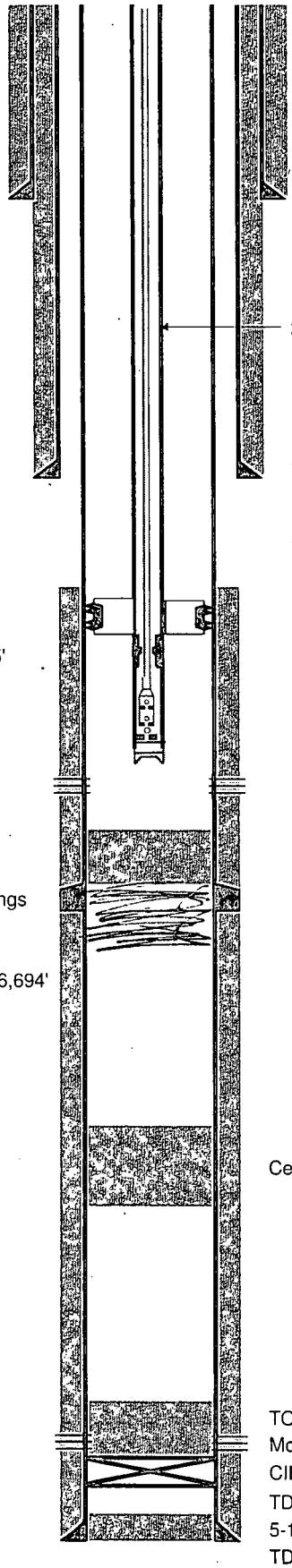
1. Test anchors prior to moving in rig.
2. Move in rig up pulling unit.
3. Kill well as necessary with 2% KCl.
4. Nipple down wellhead, nipple up 5,000 psi blow out preventer stack. Send wellhead with Cameron company representative for inspection and to replace seals in tubing hanger. Call Cameron company representative 1-2 days prior to starting operations to arrange having equipment picked up so that it can be returned within a few days.
5. TOOH w/ 2-3/8" 4.7# L-80 tbg and stand back tbg.
6. MIRU wireline and 5k short lubricator
7. RIH with 4.60" gauge ring and junk basket down to +/- 11,000'. must be 50' above top most perf
8. PU CIBP on WL and RIH to set CIBP @ +/- 10,996' (OD of CIBP = 4.24").
9. TIH w/ 2-3/8" 4.7# L-80 tbg to tag CIBP at +/- 10,996'. Hydrotest to 8,500 psi while TIH.
10. Fill annulus with 2% KCl prior to pumping cement to avoid U-tubing.
11. Pump 321' (35 sx) of Class H cement on top of CIBP abandoning the Morrow. (covers perfs and 50' above top of morrow at 10,724') Displace with 2% KCl.
12. TOOH slowly to 9,675' (TOC at 10,625'). Reverse circulate 48 bbls 2% KCl (tubing volume + 10 bbls).
13. WOC at least 6-8 hours
14. RU pump truck and pressure test casing to 5,000 psi w/ 2% KCl.
15. TIH to tag TOC at +/- 10,625'.
16. TOOH w/ 2-3/8" 4.7# L-80 tbg to 8,405'
17. Fill annulus with 2% KCl prior to pumping cement to avoid U-tubing.
18. Spot 226' (25 sx) Class H cement @ 8,405'
19. TOOH slowly to 7,191' (expected TOC 8,179'). Reverse circulate 40 bbls 2% KCl (tubing volume + 10 bbls).
20. Test casing to 500 psi.
21. Make sure annulus is filled with 2% KCl prior to pumping cement to avoid U-tubing
22. Spot 226' (25 sx) Class H cement @ 7,191'
23. TOOH w/ 4.7# L-80 tbg and lay down tubing.
24. WOC at least 6-8 hours
25. RU pump truck and test csg to 5,000 psi with FW.
26. ND BOP, NU WH, RDMO pulling unit
27. MIRU frac tanks (14 frac tanks is 25% excess).
28. Test frac valves and flow cross prior to job. Arrange for these items, manlift, forklift, and Pace testers to be on location the day before the frac job to test so that we do not have the frac waiting on a good test the following day.
29. RU 15K Guardian stage tool, frac valves, & WL with 5k short lubricator.
30. RU pump truck and test casing to 8,500 psi (maximum treating pressure).
31. RIH w/ 4.60" gauge ring and junk basket down to 6,900'.
32. Perforate Bone Springs (6,734' – 6,884') with 28 perfs. Note change in pressure on report. Correlate to Halliburton Dual Spaced Neutron Spectral Density Log dated April 12, 2005.

33. RDMO WL & 5k lubricator.
34. Frac Bone Springs perfs as per design down 5-1/2" csg through stage tool.
35. RDMO frac and 15K Guardian stage tool
36. Flow back well as necessary.
37. MIRU pulling unit, ND WH, NU 5K BOP
38. TIH w/ bit and casing scraper on 2-3/8" 4.7# L-80 tbg to 6,890'.
39. TOOH w/ bit and casing scraper on 2-3/8" 4.7# L-80 tbg
40. TIH w/ tbg string as per procedure to set tubing anchor catcher at +/- 6,655'. From downhole up:
    a. 2-3/8" bull plug set at +/- 6,734'
    b. 1 jt 2-3/8" 4.7# L-80 tubing @ 6,702'
    c. 3-1/2" collar sized echometer @ +/- 6,695'
    d. 2-3/8" seat nipple @ +/- 6,694'
    e. 1 jt 2-3/8" 4.7# L-80 tubing @ +/- 6,662'
    f. 2-3/8" x 5-1/2" TAC @ +/- 6,659'
    g. 2-3/8" 4.7# L-80 tbg to surface
41. ND BOP, NU wellhead
42. RIH w/ 1.5" insert pump and rod string as per design. From downhole up:
    a. 2" x 1-1/2" x 30' RHBC (rod pump, heavy wall, bottom cup type) HVR (hollow valve rod, prevents gas locking) frac pump, HWSCID (heavy wall steel chrome ID barrel), 6' smgroovemp (spray metal, groove type plunger, monel pin), ss trim (stainless steel), DV (double valve) T/C T/C alt (titanium over carbide), SV (standing valve) T/C alt, ¾" pin (1.5" flexbar C has ¾" pin), 2" fn (fishing neck), 1-1/4" GAC (gas anchor catcher, doesn't really matter since we will not run a Mother Hubbard), 271" stroke (this is a 1.5" insert pump).
    b. 450' of 1.5" Flexbar C sinker bars
    c. 1,550' of 7/8" Weatherford S88 steel rods
    d. 4,694' of 1" Fiberod (fiberglass rods)
43. Load tbg and test to 500 psi.
44. Install C640-305-168 pumping unit & set in 1st crank hole. Set pump at 7.25 SPM
45. Send excess 4.7# 2-3/8" L-80 tubing back to Midland yard.
46. Put well on production.

Proposed WBD

KB - 23' above GL

Cimarex Energy Co. of Colorado
White City Penn 28 Gas Com Unit 3 #4
SHL - 1980' FSL & 1500' FWL
BHL - 690' FSL & 1306' FWL
Sec. 28, T-24-S, R-26-E, Eddy Co., NM
M. Karner 01/19/2011



13-3/8", 54.5# J-55 csg @ 350'
cmtd w/ 350 sx, cmt circ

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

9-5/8", 40# NS-110HC csg @ 1600'
cmtd w/ 700 sx, cmt circ

TOC @ 2750 by CBL-DP Jan 2015

Tubing:
2-3/8" 6.5# L-80 tbg to surface (208 jts)
2-3/8" x 5-1/2" TAC @ +/- 6,659'
1 jt 2-3/8" 4.7# L-80 tubing @ +/- 6,662'
2-3/8" seat nipple @ +/- 6,694'
3-1/2" collar sized echometer @ +/- 6,695'
1 jt 2-3/8" tubing @ +/- 6,702'
2-3/8" bull plug @ +/- 6,734'

Rods:
1.5" Polished Rod at surface
4,694' x 1" Fiberod w/ slimhole couplings (188 jts)
1,550' x 7/8" WFT S88 w/ slimhole couplings (62 jts)
550' x 1.5" Flexbar C (18 jts)
30' length 2" barrel ID insert pump @ +/- 6,694'

Bone Springs perfs (6,734' - 6,884')

Cement plug from 7,191' - 6,965'
DV Tool @ 7083'
cmtd w/ 1550 sx

CBL confirms good cmt up to 7450;
probably have cmt up to DV. DP

Cement Plug from 8,405' - 8,179'

TOC @ 10,625'
Morrow perfs (10996' - 11541')
CIBP @ 10,996'
TD @ 11751'
5-1/2" 17# P-110 @ 11900' cmtd w/ 1175 sx
TD @ 11900'

Printed 7/22/2015

Current WBD

KB - 23' above GL

Cimarex Energy Co. of Colorado

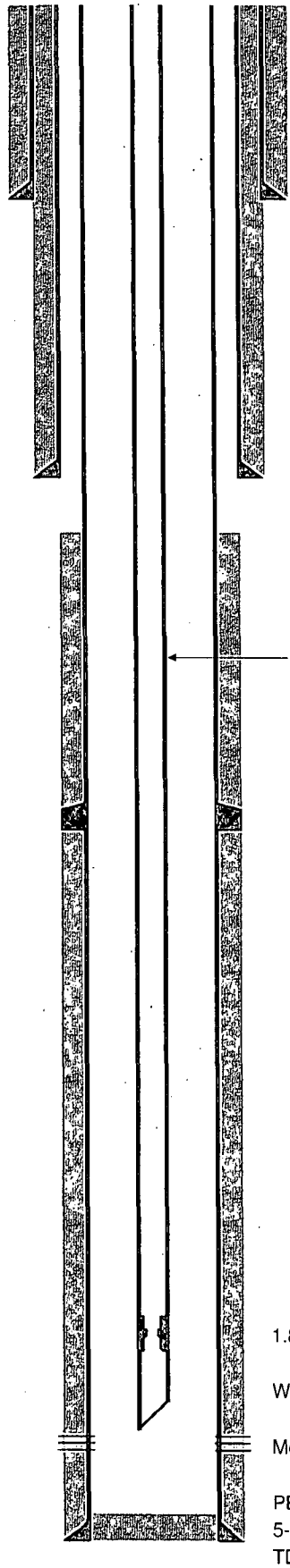
White City Penn 28 Gas Com Unit 3 #4

SHL - 1980' FSL & 1500' FWL

BHL - 690' FSL & 1306' FWL

Sec. 28, T-24-S, R-26-E, Eddy Co., NM

S. Gengler 01/19/2011



13-3/8", 54.5# J-55 csg @ 350'
cmtd w/ 350 sx, cmt circ

9-5/8", 40# NS-110HC csg @ 1600'
cmtd w/ 700 sx, cmt circ

TOC @ 2750 by CBL-DP Jan 2015

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

DV Tool @ 7083'
cmtd w/ 1550 sx

CBL confirms good cmt up to 7450;
probably have cmt up to DV. DP

1.812" Baker F Profile nipple @ 10869'

WLEG @ 10902'

Morrow perfs (10996' - 11541')

PBTD @ 11751'
5-1/2" 17# P-110 @ 11900' cmtd w/ 1175 sx
TD @ 11900'

Printed 6/11/2015

White City Penn 28 Gas Com UTI 4
30-015-33862
Cimarex Energy Company of CO
July 24, 2015
Conditions of Approval

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by October 24, 2015.

1. **Operator shall set a CIBP at 10,946' (50' above top most perf) and Class H cement on top. Tag required at a minimum of 10,625'.**

2. **Operator shall set a solid Class H plug from 8,405'-8,179' as proposed.**

3. **Operator shall set a solid Class C plug from 7,133'-6,965' to cover the DV tool as proposed. Tag required.**

4. **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.**

5. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.

6. Surface disturbance beyond the originally approved pad must have prior approval.

7. Closed loop system required.

8. 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.

9. Operator to have H2S monitoring equipment on location.

10. A minimum of a **5000 (5M)** 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 (5M 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.

11. **Subsequent sundry required detailing work done and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.**

12. **See attached for general requirements.**

JAM 072415

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 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. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth.**

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.