

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No 1004-0137  
Expires March 31, 2007

RM

RECEIVED  
JUN 21 2010  
MOC-ARTESIA

## 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 reverse side

## 1. Type of Well

☐ Oil Well☒ Gas Well☐ Other

## 2. Name of Operator

Cimarex Energy Co. of Colorado

## 3a. Address

600 N. Marienfeld St., Ste. 600; Midland, TX 79701

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

432-571-7800

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

1650 FNL &amp; 1200 FWL

24-25S-26E

## 5. Lease Serial No.

NM-26105

## 6. If Indian, Allottee or Tribe Name

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

NM-112716

## 8. Well Name and No

Liberty 24 Federal Com No. 1

## 9. API Well No.

30-015-33094

## 10. Field and Pool, or Exploratory Area

Cottonwood Draw; Upper Penn &amp; Morrow

## 11. County or Parish, State

Eddy County, NM

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

## TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-off☐ Well Integrity☒ Other Deepen to  
Devonian (prep for SWD  
conversion)

## 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 recomple 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 is currently DHC in the Morrow (11487' - 11956') and Cisco-Canyon (10236' - 10409'). Cimarex plans to plug back the well to 5750' in preparation for SWD conversion in the Devonian as shown below and on the attached procedure:

PET witness required

- NUBOP. Kill well and POOH w/ tbg.

- Set CIBP @ 11450.' Tag and pump 20 sx Class H cmt plug (wt 17, yld 0.99). TOC 11223.'

- Set CIBP @ 10460.' Tag and pump 50 sx Class H cmt plug (wt 17, yld 0.99). TOC 9990.' Tag.

- Pull up to 8620' and pump 80 sx Class H cmt plug (wt 17, yld 0.99). TOC 8250.' Pull up to 8150.' Tag plug.

- Cut 7" casing @ 5900.'

- GIH to 6040' and pump 80 sx Class H cmt plug (wt 17, yld 0.99). TOC 5785.' Tag.

- Set RBP @ 5700.' Test plug to 500 psi for 30 minutes and generate chart for TA request.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Request 90-day TA of well until deepening rig can be secured. NOI to deepen well to Devonian to be sent under separate cover.

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

Name (Printed/Typed)

Natalie Krueger

Title

Regulatory

Signature

Date

06.11.10

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved by

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.

Title

Office

JUN 11 2010

WESLEY W. INGRAM

REGISTERED ENGINEER

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. 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)

M2



## COMPLETION PROCEDURE

### Liberty 24 Fed Com 1

1650' FSL & 1200' FWL

Sec. 24, T25S, R26E

Eddy County, NM

Prepared by: Ryan Braxton

**6/09/2010**

API #

AFE #

### Directions:

GL	3,272'	KB	3,290'
TD	12,300'	PBTD	12,218'

Surface casing:	13-3/8" 54.5# J-55 STC	0 – 440'
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Intermediate	9-5/8" 40# NS-110 LTC	0 – 5,808'
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Production	7" 26# P-110 LTC	0 – 10,369'
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Liner	4-1/2" 11.6# P-110 LTC	10,059 – 12,300'
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	4-1/2" 11.6# P110 LTC	2-3/8" 4.7# L80 8Rd EUE
I.D., in.	4.000	1.995
Drift, in.	3.875	1.901
Burst, psi	10,690	11,200
Collapse, psi	7,580	11,780
Tension, lbs	279,000	104,300
Capacity – gals/ft,	0.6528	0.162
Capacity – bbls/ft	0.0155	0.00386

Top flange: 7-1/16" 5K

CIMAREX ENERGY  
Liberty 24 Fed Com 1 SWD Completion Procedure

1. MIRU well service unit and flowback equipment.
2. Bleed pressure off 7" x 9-5/8" annulus and fill with water.
3. NU 7-1/16" 5K dbl ram BOP dressed with blinds on bottom and 2-3/8" pipe rams on top. MIRU workover rig and reverse unit with pit.
4. If well is flowing, kill well. POOH and lay down 2-3/8" tubing.
5. Rig up W/L unit. RIH w/ CIBP and set at 11,450'.
6. GIH and tag CIBP. Pump 20 sx Class H 17 ppg 0.99 cuft/sx (TOC @ 11,223'). POOH.
7. RIH w/ CIBP and set at 10,460'.
8. GIH and tag CIBP. Pump 50 sx Class H, 17 ppg, 0.99 cuft/sx (TOC @ 9,990').
9. Pull up to 9,900'. Wait on cement. Tag plug to ensure TOC is at least 10,000'.
10. Pull up to 8,620'. Pump 80 sx Class H, 17 ppg, 0.99 cuft/sx (TOC @ 8,250').
11. Pull up to 8,150'. Wait on cement. Tag plug to ensure TOC is at least 8,268'. POOH.
12. GIH and cut 7" casing at 5900' (TOC @ 6950' per CBL). POOH and lay down casing.
13. GIH to 6,040'. Pump 80 sx Class H, 17 ppg, 0.99 cuft/sx (TOC @ 5,785').
14. Pull up to 5,700'. Wait on cement. Tag plug to ensure TOC is at least 5,850'.
15. POOH and pick up RBP. Set RBP at 5,700'.
16. Test plug to **500** psi for 30 minutes (**with chart**).
17. Secure well. Rig down and release rig. Will move drilling rig in later.



## Current Condition

Cimarex Energy Co. of Colorado

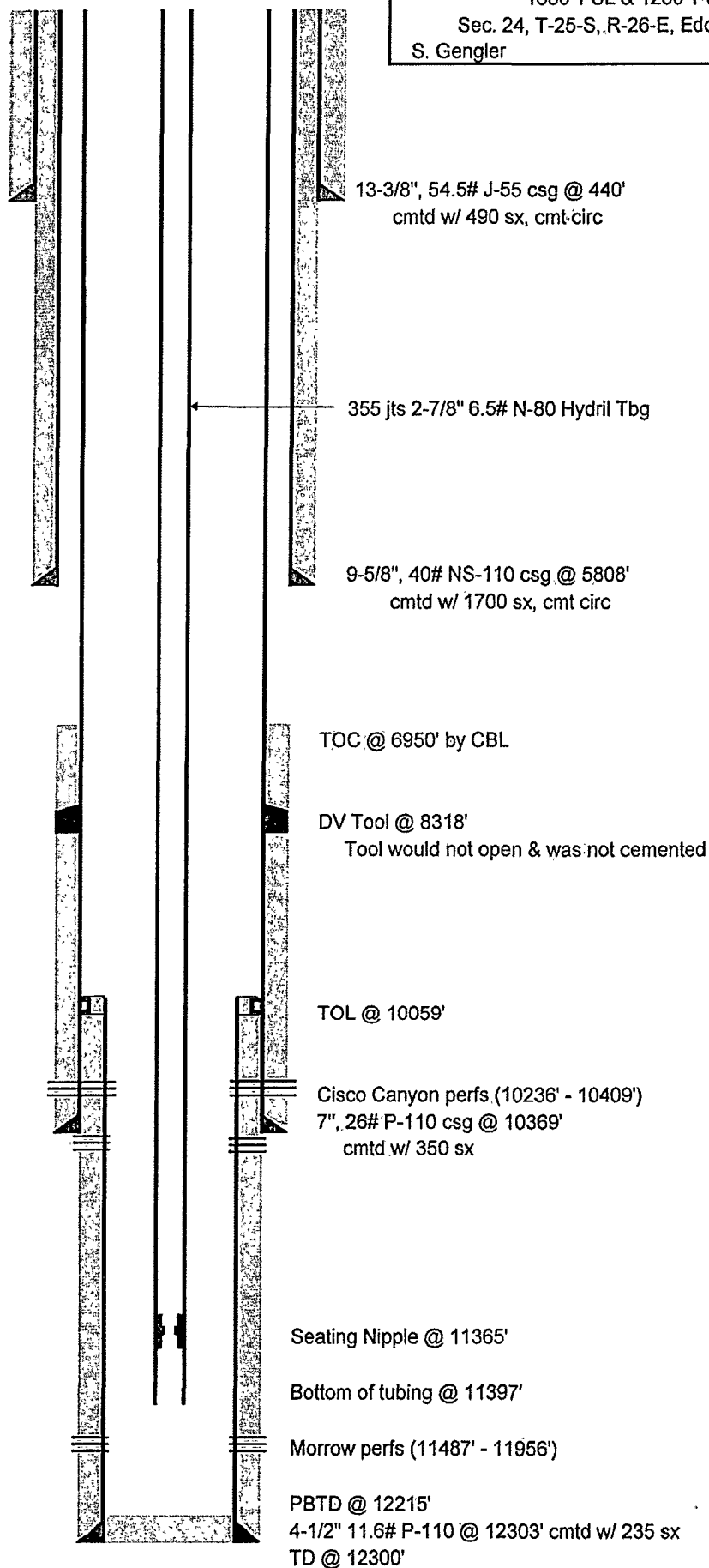
Liberty 24 Federal Com #1

1650' FSL & 1200' FWL

Sec. 24, T-25-S, R-26-E, Eddy Co., NM

S. Gengler

07/07/2009



# Proposed Condition - Plugback

Cimarex Energy Co. of Colorado

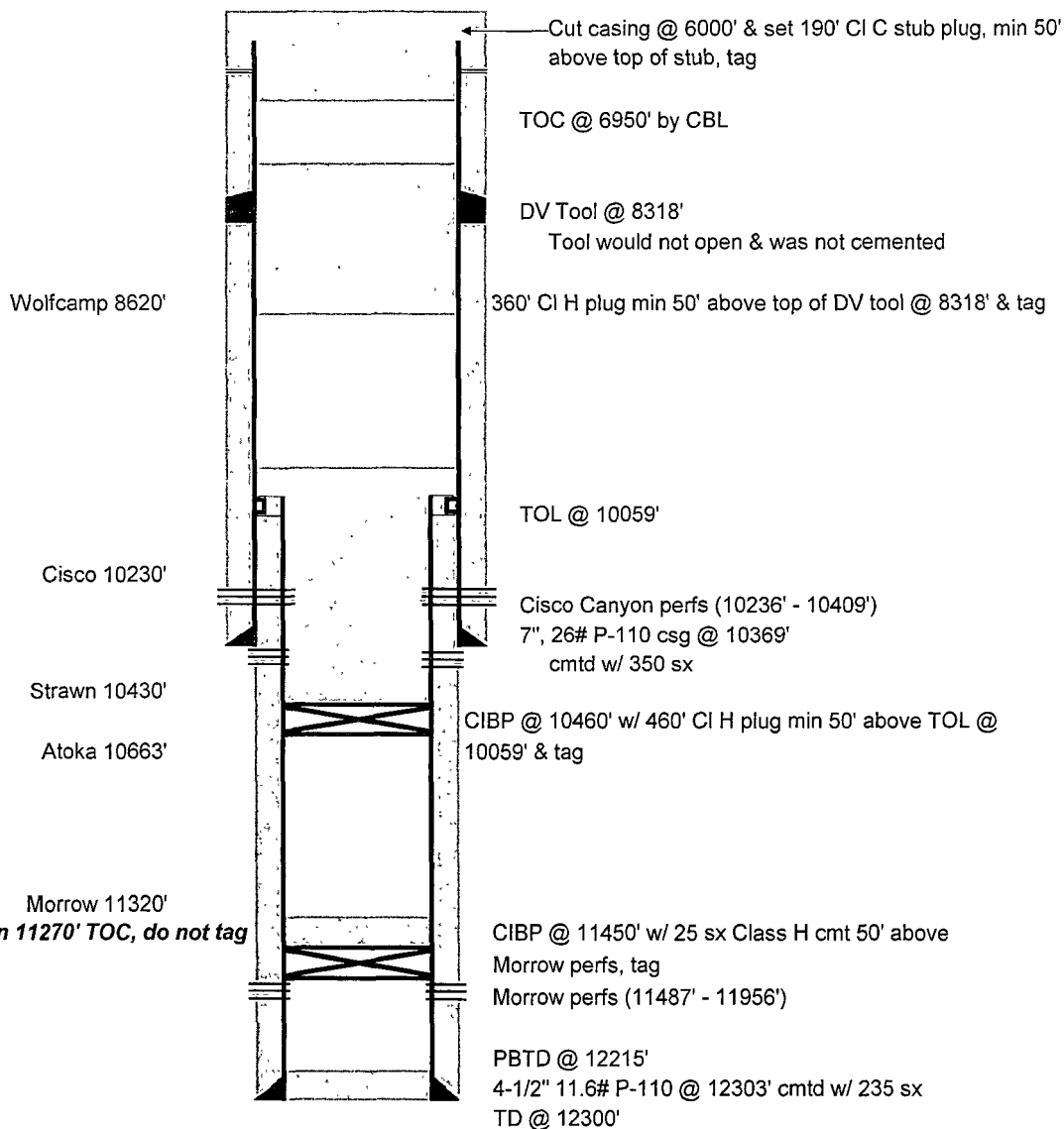
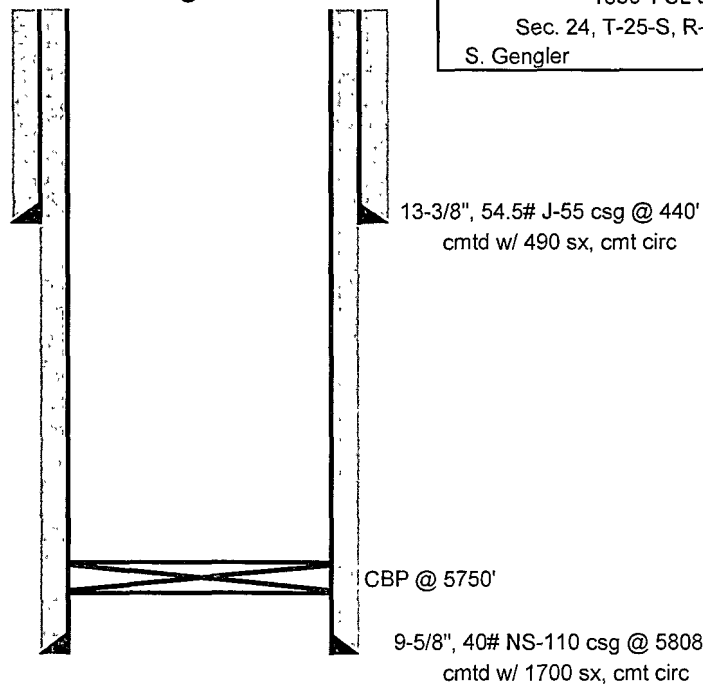
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07/07/2009



**Liberty 24 Federal Com 1  
30-015-33094  
Cimarex Energy Co. of Colorado  
June 11, 2010  
Conditions of Approval**

**Contact BLM at 575-361-2822 to witness plug back operations.**

**Surface disturbance is not to extend existing pad without prior approval.**

**Closed loop system to be used.**

**H2S monitoring equipment should be onsite.**

- 1. 5M BOP to be installed and tested. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.**
- 2. Minimum plug when pumped is 25 sacks.**
- 3. Tag at 10000' or shallower. (Cisco perfs, 7" shoe, top of liner)**
- 4. Plug to be set from 8670' – plug shall be set 50' below top of Wolfcamp. Tag plug at 8268' or shallower.**
- 5. Ok**
- 6. Ok – plug to be tagged a minimum of 50' above cut.**
- 7. Ok**

**Operator shall submit subsequent sundry with copy of pressure chart upon completion of above work.**

**90 day TA approval will be granted upon receipt of subsequent sundry and successful MIT.**

**WWI 061110**