

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
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.

5. Lease Serial No.
NMNM96835

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
LIBERTY 24 FEDERAL COM 2

2. Name of Operator
CIMAREX ENERGY COMPANY
Contact: PAULA BRUNSON
E-Mail: pbrunson@cimarex.com

9. API Well No.
30-015-33683

3a. Address
600 N MARIENFELD STE 600
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-717-7848

10. Field and Pool, or Exploratory
COTTONWOOD DRAW MORROW
Upper Penn (GAS)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 24 T25S R26E SWSW 1475FSL 940FWL

RECEIVED
SEP 03 2013
NMOC D ARTESIA

11. County or Parish, and State
EDDY COUNTY, NM *499354*

12. CHECK 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"/> Fracture Treat	<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 checked="" 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 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 recompleate 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 recompleation 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.)

The following procedure will be use for recompleation of the referenced well:

1. MIRU pulling unit. If necessary, kill well with FW. ND WH, NU BOP, and TOOH and LD tbg. RU wireline and run gauge ring to 11550. Run CIBP and set at +/- 41520 and dump 35 cmt on top of CIBP. RU pump truck and pressure test csg to 5000 psig with FW. ND BOP and change out 5K wellhead for 10K wellhead. RU 10K goat head frac valve. Perforate Cisco Canyon (10384-10539), 3 JSPP at 120 degree phasing with 3-1/8" casing guns. Total of 105 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated April 15, 2005. RD wireline and RDMO pulling unit.

2. RU frac and wireline. Acidize and frac Cisco Canyon perms (10384?10539) down 4-1/2" csg with 5000 gals acid followed by 229,099 gals slick water containing 25,000 lbs 100 mesh & 150,000 lbs 30/50 sand. Set flow thru composite plug at 10370.

always include current & PROPOSED well bore diagrams

SUBJECT TO LIKE APPROVAL BY STATE
See COA

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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

Electronic Submission #214600 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 07/24/2013 ()

Accepted for record

Name (Printed/Typed) PAULA BRUNSON

Title REGULATORY ANALYST

NMOC D 105/9/2013

Signature (Electronic Submission)

Date 07/23/2013

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____

Title _____ Date _____

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.

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

Submit current C102 to NMOC D

Additional data for EC transaction #214600 that would not fit on the form

32. Additional remarks, continued

3. Perforate Cisco Canyon (10261-10350), 3 JSPF at 120 degree phasing with 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated April 15, 2005.
4. Acidize and frac Cisco Canyon perfs (10261-10350) down 4-1/2" csg with 5000 gals acid followed by 217,018 gals slick water containing 20,000 lbs 100 mesh & 150,000 lbs 30/50 sand. Set flow thru composite plug at 10150.
5. Perforate Wolfcamp (9753-9880), 3 JSPF at 120 degree phasing with 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated April 15, 2005.
6. Acidize and frac Wolfcamp perfs (9753-9880) down 4-1/2" csg with 5000 gals acid followed by 282,367 gals slick water containing 30,000 lbs 100 mesh & 200,000 lbs 30/50 sand. Set flow thru composite plug at 9725.
7. Perforate Wolfcamp (9538-9691), 3 JSPF at 120 degree phasing with 3-1/8" casing guns. Total of 57 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated April 15, 2005.
8. Acidize and frac Wolfcamp perfs (9538-9691) down 4-1/2" csg with 5000 gals acid followed by 265,546 gals slick water containing 25,000 lbs 100 mesh & 200,000 lbs 30/50 sand. Set flow thru composite plug at 9523.
9. Perforate Wolfcamp (9378-9508), 3 JSPF at 120 degree phasing with 3-1/8" casing guns. Total of 60 holes. Depth reference log Halliburton Spectral Density Dual Spaced Neutron Log dated April 15, 2005. RD wireline.
10. Acidize and frac Wolfcamp perfs (9378-9508) down 4-1/2" csg with 5000 gals acid followed by 265,527 gals slick water containing 25,000 lbs 100 mesh & 225,000 lbs 30/50 sand. RD Cudd.
11. RU 1-3/4" coiled tbg unit. TIH with 4-3/4" butterfly mill & extreme downhole motor on 1-3/4" CT and drill out sand and composite plugs at 9523, 9725, 10150, and 10370. Make a minimum of 2 gel sweeps while drilling out composite plugs. FIH with coiled tbg and CO sand to 10500. TOOH with mill, motor, & CT. RD coiled tbg unit.
12. Flow back well until sand production cleans up, the SI well overnight.
13. RU wireline and full 10K lubricator. RIH with 4-3/4" GR to 9300. TIH with 10K pkr with on-off tool, and a pump out plug (pinned for 7500 psi BHP) in place and set at +/- 9280. RD wireline and full lubricator.
14. ND goat head and NU BOP. TIH with on-off tool, gas lift valves and tbg, testing tubing below slips to 8000 psi and latch on to pkr. ND BOP, NU WH. RD pulling unit.
15. RU PT & pressure up to 4000 psig to pump out plug. Put well on production.

Future plans are to commingle zones upon approval of commingle permit. Please consider the Morrow as shut-in and not abandoned.

Well bore diagram and C-102 are attached.

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I
1220 S. FRANCIS DR. S0683 NM 87505

DISTRICT II
1301 W GRAND AVENUE ADELPHI NM 88210

DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised JUNE 10, 2009
Submit to Appropriate District Office
State Lease - 4 Copies
Per Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code 92377 97354	Pool Name Cottonwood Draw; Morrow Upper Penn (GAS)
Property Code	Property Name LIBERTY 24 FEDERAL COM	Well Number 2
OGHD No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT COMPANY	Elevation 3227'

Surface Location

RT or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1.	24	25-S	26-E		1475	SOUTH	940	WEST	EDDY

Bottom Hole Location If Different From Surface

RT or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill N	Consolidation Code C	Order No. Pending
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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

1850'

1200'

Liberty 24 Fed Com 1

940'

3226.7'

3214.9'

Liberty 24 Fed Com 2

GEODETIC COORDINATES
NAD 27 NME
Y=404501.9 N
X=525407.1 E
LAT.=32°06'43.44" N
LONG =104°15'04.59" W

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief

Zeno Farris

Signature

Zeno Farris

Printed Name

Mgr Operations Admin

Title

September 13, 2004

Date

SURVEYOR CERTIFICATION

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

SEPTEMBER 1, 2004

Date Surveyed

Signature & Seal of Professional Surveyor

Darryl Simpson 9/3/04

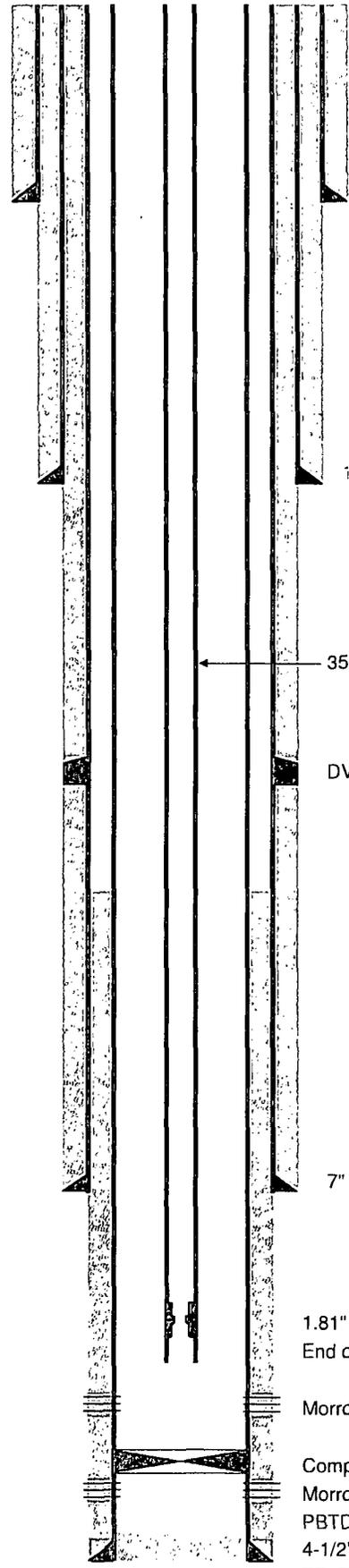
04-11-118A

Certificate No. DARRYL SIMPSON 12041



KB - 18' above GL

Cimarex Energy Co. of Colorado
Liberty 24 Federal Com #2
1475' FSL & 940' FWL
Sec. 24, T-25-S, R-26-E, Eddy Co., NM
S. Gengler 07/29/2011



13-3/8", 54.5# J-55 csg @ 220'
cmtd w/ 250 sx, cmt circ

19-5/8", 40# P-100 & N-80 csg @ 1935'
cmtd w/ 650 sx, cmt circ

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

DV Tool @ 4900'
cmtd w/ 615 sx, cmt circ

TOC @ 7446' by CBL

7" 23# P-110 @ 9016'
cmtd w/ 500 sx, cmt circ

1.81" F Profile Nipple @ 11433'
End of Tubing @ 11467'

Morrow perfs (11556' - 11746')

Composite BP @ 11800'
Morrow perfs (11839' - 11956')

PBTD @ 12180'
4-1/2" 11.6# P-110 @ 12330' cmtd w/ 400 sx
TD @ 12330'

Conditions of Approval

**Cimarex Energy Company
Liberty 24 Federal Com 2
API 30-015-33683
T25S-R26E, Sec 24
August 27, 2013**

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

Work to be completed by November 27, 2013.

- 1. Operator shall place a CIBP at 11,506' and place a minimum of 35' of Class H cement on top. Tag required.**
- 2. If operator does not return to the Morrow formation, an NOI must be submitted to plug back the Morrow properly.**
- 3. 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.**
- 4. Operator shall perform a production test on the Cisco Canyon and Wolfcamp individually and submit results to the BLM.**
- 5. No DHC shall be done without approval from both the BLM and the State.**
6. Subject to like approval by the New Mexico Oil Conservation Division.
7. Surface disturbance beyond the existing pad must have prior approval.
8. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
9. Functional H₂S monitoring equipment shall be on location.

10. A minimum of 3000 (3M) BOPE shall 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 (3M) 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. All waste (i.e. 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.
12. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
13. **Submit subsequent sundry required detailing work done and completion report for the new formation. Operator to include well bore schematic of current well condition when work is complete.**

JAM 082713