

District I

1625 N French Dr, Hobbs, NM 88240

District II

1301 W Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S St. Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101

May 27, 2004

Oil Conservation Division SEP 04 2012

Submit to appropriate District Office

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | |
|--|--|---|
| ¹ Operator Name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld, Ste. 600 Midland, TX 79701 | | ² OGRID Number 162683 |
| | | ³ API Number 30-025-36529 |
| ⁴ Property Code | ⁵ Property Name Cooper 8 | ⁶ Well No. 002 |
| ⁹ Proposed Pool 1 Monument; Blinebry | | ¹⁰ Proposed Pool 2 |

⁷ Surface Location

| UL or lot no | Sectio36 | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|--------------|----------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H | 8 | 20S | 37E | | 1850 | North | 630 | East | Lea |

⁸ Proposed Bottom Hole Location If Different From Surface

| UL or lot no | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

Additional Well Information

| | | | | |
|--|---|--|--------------------------------------|--|
| ¹¹ Work Type Code Recomplete | ¹² Well Type Code O | ¹³ Cable/Rotary | ¹⁴ Lease Type Code Fee | ¹⁵ Ground Level Elevation 3550 |
| ¹⁶ Multiple N | ¹⁷ Proposed Depth 6440 (PBSD) | ¹⁸ Formation Glorietta | ¹⁹ Contractor N/A | ²⁰ Spud Date When Approved |
| Depth to Groundwater | | Distance from nearest fresh water well | | Distance from nearest surface water |
| Pit: Liner Synthetic <input type="checkbox"/> __mils thick Clay <input type="checkbox"/> Pit Volume, __ bbls Drilling Method Closed-Loop System <input checked="" type="checkbox"/> Flowback Tanks Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/> | | | | |

²¹ Proposed Casing and Cement Program

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|-----------|-------------|--------------------|---------------|-----------------|---------------|
| 12 1/4 | 8 5/8 | 24 | 1135 | 520 | Circ |
| 7 7/8 | 5 1/2 | 17 | 7500 | 2080 | Circ |
| | | | | | |
| | | | | | |
| | | | | | |

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Well currently producing from Paddock/Glorietta perfs 5139'-5169'. Cimarex Energy proposes to cement sqz existing perfs and recomplete in the Blinebry per attached procedure.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature *Tracie Cherry*
Printed name Tracie Cherry

Title Sr. Regulatory Analyst

E-mail Address tcherry@cimarex.com

Date August 31, 2012

Phone: 432-620-1936

OIL CONSERVATION DIVISION

Approved by:

Title

Petroleum Engineer

Approval Date

Expiration Date

SEP 06 2012

Conditions of Approval Attached ☐

SEP 06 2012

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87401

HOBBS OIL CONSERVATION DIVISION

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

☐ AMENDED REPORT

RECEIVED
WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---|---------------------------------|--|
| ¹ API Number 30-025-36529 | ² Pool Code 46990 | ³ Pool Name Monument; Blinebry |
| ⁴ Property Code | Cooper 8 | ⁶ Well Number 2 |
| ⁷ OGRID No. 162683 | Cimarex Energy Co. of Colorado | ⁹ Elevation 3550' |

¹⁰ Surface Location

| | | | | | | | | | |
|--------------------|--------------|----------------------|----------------------------|---------|------------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or lot no. H | Section 8 | Township 20 SOUTH | Range 37 EAST, N.M.P.M. | Lot Idn | Feet from the 1850' | North/South line NORTH | Feet from the 630' | East/West line EAST | County LEA |
|--------------------|--------------|----------------------|----------------------------|---------|------------------------|---------------------------|-----------------------|------------------------|---------------|

¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|-------------------------------------|-------------------------------|----------------------------------|-------------------------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| ¹² Dedicated Acres 40 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. | | | | | | |

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | |
|---------------------------------|---|
| <div><p>¹⁶</p></div> | <div><p>¹⁷ OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p><p>Signature: <i>Tracie J Cherry</i></p><p>Printed Name: Tracie J Cherry</p><p>Title: Sr. Regulatory Analyst</p><p>Date:</p></div> <div><p>¹⁸ SURVEYOR CERTIFICATION</p><p>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.</p><p>DECEMBER 18, 2003</p><p>Date of Survey</p><p>Signature and Seal of Professional Surveyor:</p><p>Certificate Number: V. L. BEZNER R.P.S. #7920</p><p>JOB #92055 / 71 SE / E.U.O.</p></div> |
|---------------------------------|---|



KB: 18' above GL

Cimarex Energy Co. of Colorado

Cooper 8-2 (Monument Field)

1850' FNL & 630' FEL

Sec. 8, T-20S, R-37E, Lea Co., NM

H. Eads

6/8/2012

12-1/4" Hole

8-5/8", 24# J-55 csg @ 1135'
cmt'd w/ 520 sx, 140 sx cmt circ

162 jts 2-3/8" 4.7# 8rd J-55 tbg

Rods . 197 - 3/4" rods

Pump. 2" X 1-1/2" X 20' RHBC
w/ 12" strainer nipple

Paddock Perfs: 5139' - 5156' (3 SPF/53 holes)
5161' - 5169' (3 SPF/24 holes)

PROPOSED Blinebry Perfs: 5607' - 5720' (2 SPF/226 holes)

CIBP @ 6474' w/ 35' cmt'on top

RBP @ 6633'

Tubb perfs: 6518' - 6528' (6 SPF/60 holes)

Drinkard Perfs. 6694' - 6714' (2 SPF/40 holes)

CIBP @ 6952' w/ 30' cmt on top

Abo Perfs. 6992' - 7002' (3 SPF/30 holes)
7088' - 7092' (3 SPF/12 holes)

7-7/8" Hole

5-1/2", 17# N-80 csg @ 7500'
cmt w/ 2080 sx, circ 275 sx

PBTD @ 6439'

TD @ 7500'

Cooper 8-2
Blinebry Recompletion Procedure
API # 3002536529
1850' FNL & 630' FEL
Section 8, T20S, R37E
Lea County, New Mexico

Well Data:

| | |
|--------|---|
| KB | 17' above GL |
| TD | 7,500' |
| PBTD | 6,440' |
| Casing | 8-5/8" 24# J-55 @ 1,135'. Cmtd w/ 520 sx. Cmt circ. 5-1/2" 17# N-80 @ 7,500'. Cmtd w/ 2080 sx. Cmt circ. |
| Perfs | CIBP @ 6475' w/ 35' cement on top Tubb (6518' – 28') RBP @ 6633' Drinkard (6694' – 6714') CIBP @ 6952' w/ 30' cement on top Abo (6992' – 7002', 7088' – 7092') |

Procedure:

1. MIRU pulling unit. TOOH w/ rods & pump. ND WH, NU BOP. Release TAC and TOOH w/ TAC & tbq.
2. TIH w/ bit & csg scraper and clean out to PBTD of 6440'. TOOH w/ bit & scraper.
3. RU cmt company. TIH w/ cmt retainer, set @ $\pm 5100'$. Cmt squeeze perfs as per recommendation. Pull out of retainer. PU tbq 200', reverse circ. TOOH w/ tbq. SI well overnight.
4. TIH w/ bit, DCs, & tbq. Drill out cmt retainer & cmt. Close BOP. Pressure test csg to 500 psi and, if holds, FIH to 5750'. TOOH w/ bit, DCs & tbq.
5. RU wireline and perforate Blinbry, 5607' – 5720', 2 SPF w/ 3-1/8" casing guns. Total of 228 holes. Depth reference Halliburton Spectral Density Dual Spaced Neutron Log dated February 26, 2004. RD wireline.
6. TIH w/ pkr on 2-3/8" tbq and set pkr @ $\pm 5500'$.
7. RU acid company and acidize Blinbry perfs (5607' – 5720') w/ 6000 gals 15% HCL NEFE utilizing 200 ball sealers. Flush w/ fresh water.
8. Swab test to recover acid.
9. Release pkr and TOOH w/ tbq & pkr. TIH w/ 2-3/8" tbq. ND BOP, NU WH. TIH w/ rods & pump. Put well on production.