

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised July 18, 2013

NM OIL CONSERVATION Energy Minerals and Natural Resources

ARTESIA DISTRICT

Oil Conservation Division
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

| | | |
|---|--|---------------------------|
| Operator Name and Address Cimarex Energy Co. of Colorado 202 S. Cheyenne Ave Tulsa, OK 74103 | | OGRID Number 162683 |
| Property Code 34631 | | API Number 30015-33963 |
| Property Name Park State 36 Com | | Well No. I |

7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| I | 36 | 24S | 25E | | 1500 | South | 1100 | East | Eddy |

8. Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| | | | | | | | | | |

9. Pool Information

| Pool Name | Pool Code |
|--|-------------------|
| WC-015 S242536I; Strawn (Gas) - 98221 / Purple Sage - Wolfcamp (gas) 98220 / Walnut Canyon; Upper Penn (Gas) 97566 | 98221,98220,97566 |

Additional Well Information

| | | | | |
|------------------------|------------------------------------|---|-------------------------|-------------------------------------|
| 11. Work Type RC | 12. Well Type Gas | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3539' |
| 16. Multiple | 17. Proposed Depth PBTD: 11385' | 18. Formation Strawn or Cisco Wolfcamp | 19. Contractor | 20. Spud Date |
| Depth to Ground water: | | Distance from nearest fresh water well | | Distance to nearest surface water |

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

*Csg previously set

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|-------|-----------|-------------|------------------|---------------|-----------------|---------------|
| *Surf | 17.5 | 13-3/8" | 54.5 | 203 | 225 | circ |
| *Int | 12.25 | 9-5/8" | 40 | 1945 | 700 | circ |
| *Prod | 8.75 | 5-1/2" | 17 | 12074 | 2610 | 1900' |

Casing/Cement Program: Additional Comments

| |
|--|
| |
|--|

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|------|------------------|---------------|--------------|
| | | | |

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 I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature:

Printed name: Terri Stathem

Title: Regulatory

E-mail Address: kirhodes@cimarex.com

Date: 01/19/17

Phone: 918-560-7081

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date: 3-3-2017

Expiration Date: 3-3-2019

Conditions of Approval Attached

DHC 4806.

*Casing previously set - no new casing

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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|--|---|--|
| ¹ API Number 30-015-33963 | ² Pool Code 98221 | ³ Pool Name WC-015 S2425361; Strawn (Gas) |
| ⁴ Property Code 34631 | ⁵ Property Name Park State 36 Com | |
| ⁷ OGRID No. 162683 | ⁸ Operator Name Cimarex Energy of Colorado | ⁶ Well Number 1 |
| | | ⁹ Elevation 3539' |

¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|-----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
| 1 | 36 | 25S | 25E | | 1500 | South | 1100 | East | Eddy |

¹¹ Bottom Hole Location If Different From Surface

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|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

| | | | |
|---|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 320 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|---|-------------------------------|----------------------------------|-------------------------|

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.

| | |
|--|---|
| | <p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Terri Stathem</i> Date: 2-13-17</p> <p>Printed Name: Terri Stathem</p> <p>E-mail Address: tstathem@cimarex.com</p> |
| | <p>¹⁸ 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.</p> <p>Date of Survey:</p> <p>Signature and Seal of Professional Surveyor:</p> |
| | <p>Certificate Number</p> |
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|--|---|---|
| ¹ API Number 30-015-33963 | ² Pool Code 98220 | ³ Pool Name Purple Sage - Wolfcamp (GAS) |
| ⁴ Property Code 34631 | ⁵ Property Name Park State 36 Com | |
| ⁷ OGRID No. 162683 | ⁸ Operator Name Cimarex Energy of Colorado | ⁶ Well Number 1 |
| | | ⁹ Elevation 3539' |

¹⁰ Surface Location

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|---------------|-----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
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WELL LOCATION AND ACREAGE DEDICATION PLAT

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|--|---|--|
| ¹ API Number 30-015-33963 | ² Pool Code 97566 | ³ Pool Name Walnut Canyon; Upper Penn (GAS) |
| ⁴ Property Code 34631 | ⁵ Property Name Park State 36 Com | ⁶ Well Number 1 |
| ⁷ OGRID No. 162683 | ⁸ Operator Name Cimarex Energy of Colorado | ⁹ Elevation 3539' |

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| | |



**Park State 36 Com 1
Plugback Procedure**

Well Data

| | |
|---------------------|---|
| KB | 23' |
| TD | 12,073' |
| PBTD | 12,007' |
| Casing | 13-3/8" 54.5# J-55 @ 200'. Cmt'd w/ 225 sx, cmt circ 9-5/8" 40# N-80 & P-110 @ 1,940'. Cmt'd w/ 700 sx, cmt circ 5-1/2" 17# P-110 @ 12,072'. Cmt'd w/ 1,260 sx. TOC @ 650' by CBL |
| Tubing | 2-3/8" 4.7# L-80 8rd, EOT @ 8,951' |
| Current Prod. Perfs | Wolfcamp (9,029' – 9,496') |
| Proposed RC Perfs | Strawn (10,310' – 10,450') |

Procedure –Recomplete to Strawn

Notify NMOCD 24 hours prior to starting operations.

1. Test anchors prior to moving in rig.
2. Move in rig up pulling unit.
3. Kill well as necessary with 7% KCl.
4. Nipple down wellhead, nipple up 5,000 psi blow out preventer stack.
5. Release packer and TOOH w/ 2-3/8" 4.7# L-80 tbg. Stand back tbg. Scan tubing during TOOH.
6. RU wireline
7. RIH w/ GR/JB to +/- 10,450'
8. RIH w/ casing guns to perforate Strawn 10,310' – 10,450'
9. RIH to set packer w/ pump out plug set to 1800 psi differential pressure at +/- 10,260'
10. RDMO Wireline
11. TIH w/ 2-3/8" tbg and gas lift valves to latch into packer
12. ND BOP, NU WH
13. RDMO pulling unit
14. RU pump truck and pump out plug
15. MIRU Propetro acid
16. Pump 20,000 total gallons of 20% NEFE HCl with 225 ball sealers down 2-3/8" tubing
17. Flush with 1 tubing volume 2% KCl
18. Put well on production. Swab well as necessary. Produce Strawn via tubing and Wolfcamp via annulus.

If Strawn unsuccessful Cimarex will proceed with abandoning the Strawn and plug back to the Cisco & and add additional Wolfcamp perms and commingle production

Cisco Canyon & Wolfcamp Recompletion Procedure

Proposed RC Perfs Wolfcamp (8,400' – 9,900') & Cisco Canyon (9,900' – 10,310')

1. Test anchors prior to MIRU PU.
2. MIRU PU, rental flare, and choke manifold.
3. Kill well with produced water if available or FW as necessary.
4. ND WH, NU 5K BOP
5. Release packer and TOO H w/ 2-3/8" 4.7# L-80 tbg. Stand back Tubing.
6. MIRU WL
7. RIH w/ GR/JB to +/- 10,345'
8. RIH w/ CIBP to +/- 10,345'
9. RIH to bail 35' of cement on top of CIBP set at +/- 10,345'
10. ND 5k BOP, RDMO PU
11. RU two 10k frac valves and flow cross
12. MIRU water transfer with frac tanks to contain water to be pumped from frac pond
13. Test frac valves and flow cross prior to frac 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 successful test the following day.
14. RU frac valves, flow cross, goat head, and wireline lubricator.
15. RIH w/ gauge ring/junk basket for 5-1/2" 17# P-110 csg to +/- 10,310'
16. Perforate Cisco Canyon from 9,900' – 10,310'.
17. RU frac and flowback equipment.
18. Acidize and frac Cisco Canyon perms down casing with diverter.
19. Perforate Wolfcamp from 8,400' – 9,900'.
20. Acidize and frac Wolfcamp perms down casing.
21. RD frac
22. Flow back well for 24 hours, then SI well overnight.
23. RU wireline and lubricator.
24. RIH w/ GR/JB for 5-1/2" 17# P-110 to +/- 8,350'
25. RIH w/ 2-3/8" WEG, 2-3/8" pump out plug pinned for 1,500 – 2,000 psi differential pressure, 10' 2-3/8" 4.7# L-80 tbg sub w/ 1.875" XN profile nipple w/ blanking plug in place, 5-1/2" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple. Set packer +/- 8,350'. From downhole up:
 - a. 2-3/8" WEG
 - b. 2-3/8" pump out plug pinned for 1,500 – 2,000 psi differential pressure
 - c. 1.875" XN profile nipple
 - d. 10' 2-3/8" 4.7# L-80 tbg sub
 - e. 5-1/2" x 2-3/8" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple
26. RD WL and lubricator

27. ND goat head and frac valve, NU BOP, MIRU Pulling Unit
28. TIH w/ on/off tool overshoot, GLVs, and 2-3/8" 4.7# L-80 tbg.
29. Latch overshoot onto on-off tool and space out tubing
30. ND BOP, NU WH
31. RDMO pulling unit
32. RU pump truck and pump out plug. Put well on production.
33. **Run Production Log for allocation purposes after recovering load. Run additional production logs if actual production varies significantly from expected performance. Send copies of these logs to OCD and file for an adjustment of allocation factor if necessary.**



Proposed WBD
KB : 23' above GL

Cimarex Energy Co. of Colorado

Park State 36 Com #1

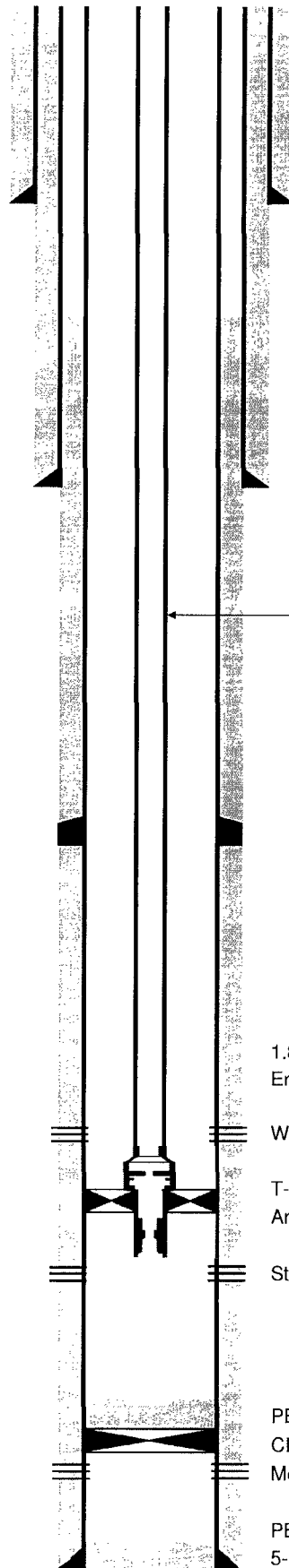
1500' FSL & 1100' FEL

Sec. 36, T-24-S, R-25-E, Eddy Co., NM

S. Gengler

02/21/2012

Gas Lift Valves: 1953', 3784', 5450'
6857', 8068', 8920'



13-3/8", 54.5# J-55 csg @ 200'
cmtd w/ 225 sx, cmt circ

TOC @ 650' by CBL

9-5/8", 40# N-80 & P-110 csg @ 1940'
cmtd w/ 700 sx, cmt circ

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

DV Tool @ 7005'
cmtd w/ 1350 sx

1.875" XN Profile Nipple @ 8969'
End of tbg @ 8974'

Wolfcamp perfs (9029' - 9496')

T-2 On-off Tool w/ 1.875" X Profile nipple @ 10,253'
Arrowset 1-X pkr @ 10,260'

Strawn perfs (10,310' - 10,450')

PBTD @ 11385'

CIBP @ 11420'

Morrow perfs (11458' - 11807')

PBTD @ 12007'

5-1/2" 17# P-110 @ 12072' cmtd w/ 1260 sx, cmt circ
TD @ 12073'



Proposed WBD
KB : 23' above GL

Cimarex Energy Co. of Colorado

Park State 36 Com #1

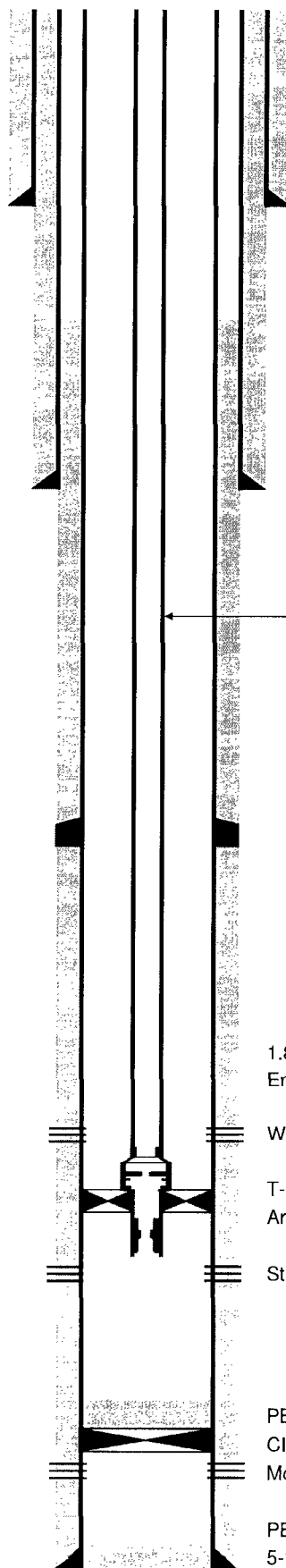
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Sec. 36, T-24-S, R-25-E, Eddy Co., NM

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5-1/2" 17# P-110 @ 12072' cmtd w/ 1260 sx, cmt circ
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Proposed WBD
KB : 23' above GL

Cimarex Energy Co. of Colorado

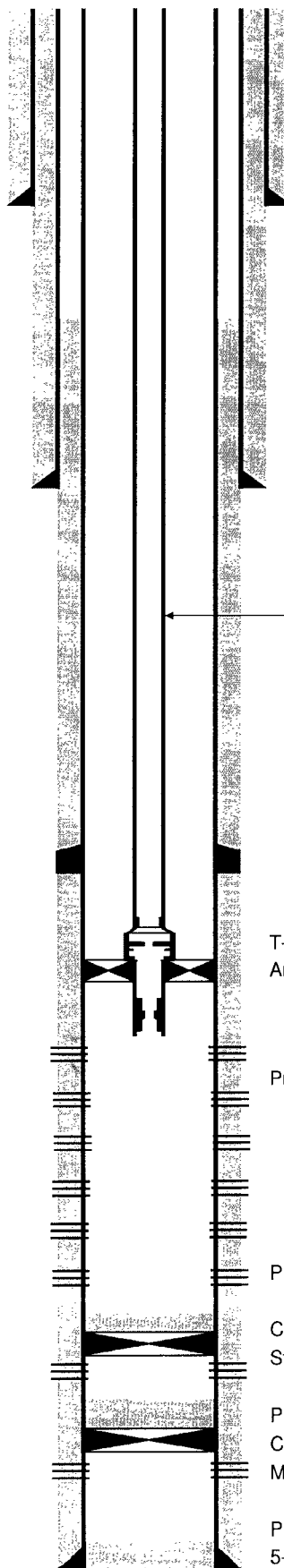
Park State 36 Com #1

1500' FSL & 1100' FEL

Sec. 36, T-24-S, R-25-E, Eddy Co., NM

M. Karner

12/31/2016



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TOC @ 650' by CBL

9-5/8", 40# N-80 & P-110 csg @ 1940'
cmtd w/ 700 sx, cmt circ

2 3/8" 4.7# L-80 Tbg

DV Tool @ 7005'
cmtd w/ 1350 sx

T-2 On-off Tool w/ 1.875" X Profile nipple @ 8343'
Arrowset 1-X pkr @ 8350'

Proposed Wolfcamp perfs (8,400' - 9,900')

Proposed Cisco Canyon Perfs (9,900' - 10,310')

CIBP set at +/- 10,345' with 35' of cement bailed on top
Strawn perfs (10,310' - 10,450')

PBTD @ 11385'
CIBP @ 11420'
Morrow perfs (11458' - 11807')

PBTD @ 12007'
5-1/2" 17# P-110 @ 12072' cmtd w/ 1260 sx, cmt circ
TD @ 12073'