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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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JUL 13 2010
NMOCD ARTESIA

Form C-101
May 27, 2004
Submit to appropriate District Office
☒ AMENDED REPORT

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

[1] Operator Name and Address	[2] OGRID Number
Cimarex Energy Co. of Colorado 600 N. Marienfeld, Ste. 600 Midland, TX 79701	162683
	[3] API Number 30-015-22747

[5] Property Code	[5] Property Name	[6] Well No
21733	State 14 Com	001

[9] Proposed Pool 1	[10] Proposed Pool 2
Parkway; Wolfcamp, N Wildcat	

[7] Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	14	19S	29E		1980	North	660	West	Eddy

[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	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
P	O		S	3319' GR
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
N	10615' (PBTD)	Wolfcamp	N/A	When Approved

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water

Pit Liner. Synthetic ☐ __mils thick Clay ☐ Pit Volume:_____bbls Drilling Method:

Closed-Loop System ☒ Flowback Tanks Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
14¾	11¾	42	320	500	Circ
11	8⅝	24	2856	1200	Circ
7⅞	4½	11.6	11554	860	7740

[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 dual-producing from Atoka (10686-10768) and Morrow (11214-11312). Cimarex proposes to plug Morrow and Atoka and recomplete to Wolfcamp as shown below and on the attached procedure.

- NDWH & NUBOP. Kill tbg. Kill backside. Attempt to unlatch packer and TOOH with it and tbg.
  - If successful, set CIBP @ 11164' (over Morrow) w/ 35' cmt. If unsuccessful, set CIBP @ 11000' w/ 35' cmt.
- Set CIBP @ 10650' (over Atoka) w/ 35' cmt.
- Perf Wolfcamp 9049-9153 3 spf 144 holes. Frac.
- Install tubing, rods, and pump and turn to sales.

[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: Zeno Farris
Printed name: Zeno Farris
Title: Manager Operations Administration
E-mail Address: zfarris@cimarex.com
Date: July 12, 2010 Phone: 432-620-1938

OIL CONSERVATION DIVISION

Approved by: Paul R
Title: Geologist
Approval Date: 7/22/2010 Expiration Date:
Conditions of Approval Attached ☐

STATE 14 COM #1
RECOMPLETE TO WOLFCAMP

PROPERTY ID

API # 30-015-22747

1980' FNL & 660' FWL
Section 14, T-19-S, R-29E
Eddy County, New Mexico

GR : 3319.2' **KB :**
TD : 11566' **PBTD:** 11355'
SURF CSG : 11-3/4" 42# K-40 @ 320' CMT W/ 500 SX TOPPED W/ 5.5 CY READY-MIX
INTER CSG: 8-5/8" OD 24#/FT K-55 AT 2856' W/ 1200 SX. TOC 0' (CIRC)
PROD CSG : 4-1/2" OD 11.6# N-80 LTC/BUTT @ 11554' W/ 860 SX.TOC 7740' (TEMP)
PACKER : 4-1/2" 11.6# Otis Permatrieve PR Pkr @ 11,002'
TUBING: 346 jts 2-3/8" EUE N-80 Tbg @ 11,002'
Otis XA sliding sleeve w/1.875# ID PN 10,682'
100' 3-1/16" OD Blast Joints from 10,685'-10,793'
On/Off tool w/1.791" ID PN @ 11,001'
PERFS: ATOKA : (10,686'-10,768') MORROW : (11,214'-11,312')

4-1/2" OD 11.6# N-80 LTC BURST=7780 PSI, COLLAPSE=6350 PSI, ID=4.0", DRIFT=3.875", CAPACITY=.0155 BBL/FT

1. MIRU PU. NDWH. NU 5K BOP. KILL TUBING W/ 2% KCL IF NECESSARY. BLEED DOWN PRESSURE ON BACKSIDE FROM OPEN ATOKA ZONE. KILL BACKSIDE W/ 2% KCL IF NECESSARY. RELEASE 4-1/2" OTIS J-LATCH SEAL ASSEMBLY. IF NO SUCCESS RELEASE ON/OFF TOOL AT 11002'. TOOH W/ 2-3/8" TUBING & ON/OFF TOOL.

2. RU WL. RIW W/ GR TO 11000 FT. POOW W/ GR. RIW W/ 4-1/2" CIBP/CCL. SET CIBP @ 11000'. POOW W/ SETTING TOOL/CCL. RIW W/ DUMP BAILER DUMPING 35 FT OF CEMENT ON TOP OF CIBP. POOW W/ DUMP BAILER. RIW W/ 4 ½" CIBP/CCL. SET CIBP @ 10650 FT. DUMP BAIL 35 FT OF CEMENT ON TOP OF CIBP. LOAD HOLE W/ 2% KCL AND PRESSURE CSG TEST TO 4800 PSIG. IF LEAK IS PRESENT, POOW W/ TUBING. RIW W/ PKR-RBP & TUBING TO LOCATE LEAK, ONCE FOUND REPORT TO MIDLAND. WILL DETERMINE TO CONTINUE ON OR PREPARE TO PA. IF CASING TEST PROCEED W/ RECOMPLETION.

3. RU LUBRICATOR. RUN GR/CCL TOOL FROM 10,500' TO TOC @7,740'. CORRELATE GR/CCL CASED HOLE LOG TO DRESSER ATLAS OPEN HOLE LOG DATED 1/27/1979 AND PERFORATE ***WOLFCAMP 9049'-70', 9,118'-133', 9,142'-153'*** W/ 3-1/8" CASING GUNS, 3 SPF, 144 HOLES. MONITOR FLUID LEVEL IN AND OUT OF HOLE. RIH W/ 2-3/8" TBG. TOOH LAYING DOWN. MOVE OUT PU.

4. MIRU STIMULATION COMPANY. RU CSG SAVER, FRAC VALVE, AND FLOWBACK MANIFOLD. FRAC ***WOLFCAMP 9049'-70', 9,118'-133', 9,142'-153'*** DOWN 4-1/2" CASING ACCORDING TO FRAC RECOMMNEDATION. MAX PRESSURE = 6500 PSI MAX RATE = 50 BPM. SHUT IN WELL FOR 12-14 HRS FOR RESIN COAT SAND TO CURE. FLOWBACK FRAC. REPORT RESULTS TO MIDLAND ENGINEERING.

5. WL 4-1/2" PRODUCTION PACKER W/ PUMP OUT PLUG INTO HOLE AND SET PACKER AT 8,980.' RIH W/ O/O TOOL AND 2-3/8" TUBING, TESTING TUBING INTO HOLE TO 7000 PSI. SET TUBING IN 4-1/2" PRODUCTION PACKER AT 8,980'. LOAD TUBING W/ 2% KCL WATER AND PRESSURE UP TO BUST PUMP OUT PLUG

6. IF WELL FLOWS, RECORD FLOWING PRESSURE DATA AND LFLOW FOR A FEW DAYS TO MONITOR VOLUMES & PRESSURE'S. FLOWBACK THROUGH PRODUCTION TEST EQUIPMENT. **DO NOT BEGIN BATTERY CONSTRUCTION UNTIL MIDLAND HAS REVIEWED PRODUCTION RESULTS.**

7. ONCE WELL HAS QUIT FLOWING PROCEED WITH ARTIFICIAL LIFT INSTALLATION. POOH W/ 4-1/2" PKR, PN, O/O TOOL & 2-3/8" TBG.

8. RIH W/ 2-3/8" TUBING CONFIGURED FOR PUMPING. INSTALL RODS AND PUMP BASED ON ESTIMATED FLUID PRODUCTION DURING SWAB TESTING. ND BOPS AND NU WELLHEAD. RDMO.

9. SET PUMPING UNIT AND BEGIN PRODUCING. AFTER LOAD RECOVERY, OBTAIN WATER ANALYSIS AND REVIEW FOR SCALE. IF SCALING TENDENCIES HIGH, DESIGN SCALE SQUEEZE AND EXECUTE.