

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

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 Cimarex Energy Co. of Colorado 600 N. Marienfeld, Ste. 600 Midland, TX 79701		RECEIVED NOV 16 2009	² OGRID Number 162683
			³ API Number 30-015-23041
⁴ Property Code	⁵ Proposed Well Name NMOCD ARTESIA	State 14 A Com	⁶ Well No 001
⁹ Proposed Pool 1 Parkway; Wolfcamp, North /		¹⁰ Proposed Pool 2	

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
G	14	19S	29E		1325	North	2303	East	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 P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3357' GL
¹⁶ Multiple N	¹⁷ Proposed Depth 10226' (PBTD)	¹⁸ Formation Wolfcamp	¹⁹ Contractor N/A	²⁰ Spud Date When Approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
²¹ Proposed Casing and Cement Program				
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
17½"	13¾"	48#	1350'	1400	Surface (existing)
11"	8¾"	24#	2900'	1550	Surface (existing)
7¾"	4½"	13.5 & 11.6#	11725'	1450	8400' TS (existing)

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 partially plugged with a cement plug from 10226-10824.' CIBP @ 11100' w/ solid mud fill from 10824'-11100.' Atoka perfs @ 10812-11062' and Morrow perfs @ 11230-11376.'

Cimarex proposes to NU 5K BOP, TOO H w/ tbg, and perf Wolfcamp 9148-9166.' Acidize Wolfcamp with 3600 gal 15% DI NeFe acid and 110 ball sealers. Flow test and install artificial lift equipment.

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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature: <i>Natalie Krueger</i>		Approved by: <i>[Signature]</i>	
Printed name: Natalie Krueger		Title: <i>Geologist</i>	
Title: Regulatory		Approval Date: 11/18/2009 Expiration Date: 11/18/2011	
E-mail Address: nkrueger@cimarex.com			
Date: November 13, 2009	Phone: 469-420-2723	Conditions of Approval Attached <input type="checkbox"/>	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-23041		¹ Pool Code 96517		¹ Pool Name Parkway; Wolfcamp, North	
⁴ Property Code 21734		⁵ Property Name State 14 A Com			⁴ Well Number 001
⁷ OGRID No. 162683		¹ Operator Name CIMAREX ENERGY CO. OF COLORADO			⁹ Elevation 3357' GL

¹⁰ Surface Location

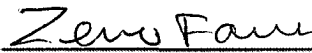
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	14	19S	29E		1325	North	2303	East	Eddy

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. NSL 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.

16		1325'	2303'	L0-6420-0005	¹⁷ OPERATOR CERTIFICATION <i>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.</i>  11/13/2009 Signature Date Printed Name Zeno Farris
					¹⁸ SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor Certificate Number

**STATE 14 A COM #1
RECOMPLETE TO WOLFCAMP**

PROPERTY ID 309548-004

API # 30-015-23041

1325' FNL & 2303' FWL

Section 14, 19S, R-29E

Eddy County, New Mexico

GL : 3372'

KB : 3388'

TD : 11752'

PBTD: 10226' (CMT PLUG)

SURF CSG : 20" 94# H-40 @ 255' CMT W/ 350 SX TOPPED W/ 44 CY READY-MIX

INTER CSG: 13-3/8" OD 48#/FT H-40 AT 1350' W/ 500 SX. TOC 0' (CIRC)

INTER CSG: 8-5/8" OD 24#/FT S-80/K-55 AT 2900' W/ 1850 SX. TOC 0' (CIRC)

PROD CSG : 4-1/2" OD 11.6 & 13.5# N-80 LTC/BUTT @ 11752' W/ 1450 SX. TOC 8400' (TEMP)

MIN ID=3.92", DRIFT=3.795", BURST=7780/9020 PSI, CAPACITY=0.6269 GAL/LF

TUBING: 2-3/8" 4.7# 8RD EUE TUBING TO 1896' (54 BLUE, 9 YELLOW BAND)

PERFS: ATOKA - 10812'-11062'; MORROW - 11230-11376'

SOLID MUD FILL IN WELL FROM CIBP @ 11100' TO 10824'; 3.75 GR/JB, KINLEY CUTTER BAR, AND .39" WIRELINE STUCK IN TOP; CEMENT PLUG OVER ATOKA FROM 10226-10824'

1. MIRU PU. NDWH AND NU 3K MANUAL BOP. POOW W/ 2-3/8" TUBING. RIH W/ 2-3/8" TUBING JOINT, 3.75" OD STRINGMILL, BUMPER SUB, JARS, 6-3-1/8" DC'S, ACCELERATOR SUB, AND 2-3/8" TUBING. CLEAN OUT ANY TIGHT SPOTS BETWEEN 6600'-6843'. WATCH WEIGHT INDICATOR AND CHECK DRAG ACROSS THIS INTERVAL 'UP' AND 'DOWN'. POOW LD BHA.
2. RIH W/ 4-1/2" PRODUCTION PACKER ON 2-3/8" TUBING. SET 4-1/2" PRODUCTION PACKER AT 9000'. LOAD TUBING W/ 2% KCL WATER.
3. MIRU WL. RU LUBRICATOR. RUN 2-3/8" GR/CCL TOOL FROM 9300' TO TOC @8400'. CORRELATE GR/CCL CASED HOLE LOG TO DRESSER ATLAS OPEN HOLE LOG DATED 11/6/1979 AND PERFORATE **WOLFCAMP 9148'-66'** W/ 2-3/8" TUBING STRIP PERFORATION GUNS. TOO H W/ 2-3/8" TUBING STRIP PERFORATING GUNS.
4. ACIDIZE WOLFCAMP PERFORATIONS WITH 3600 GAL 15% DI NEFE ACID AND 110 BALL SEALERS. MAX BREAKDOWN PRESSURE 6500 PSI, MAX RATE 5 BPM. SWAB/FLOW BACK LOAD.
5. 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.**
6. ONCE WELL HAS QUIT FLOWING PROCEED WITH ARTIFICIAL LIFT INSTALLATION. POOH W/ 4-1/2" PKR, PN, O/O TOOL & 2-3/8" TBG.
7. 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.
8. 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.