

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
RECEIVED
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
APR 01 2008

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

Operator Name and Address Cimarex Energy Co. 600 N. Marienfeld Street, Ste. 600 Midland, TX 79701		OGRID Number 215099
Property Code 35696	Property Name GTO 10 State Com	Well No. 1
Proposed Pool 1 Caudill; Wolfcamp		Proposed Pool 2

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	N/S line	Feet from the	E/W line	County
E	10	15S	36E		1450'	North	1100'	West	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
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Additional Well Information

Work Type Code P	Well Type Code G	Cable/Rotary	Lease Type Code S	Ground Level Elevation 3908'
Multiple N	Proposed Depth	Formation	Contractor	Spud Date
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 type="checkbox"/> 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
	13-3/8"	48#	400'	440	Surface
	9-5/8"	40#	4825'	1740	Surface
	5 1/2"	17#	12997'	540	11240' (CBL)

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.

The GTO 10 State #1 is currently producing from the Atoka/Austin 12292'-12898'. Cimarex proposes to plug off the Austin w/a CIBP @ 12820' w/cmt cap and the Atoka w/a CIBP @ 12250' w/cmt cap, then Recomplete to the Wolfcamp 10712'-10760'. The Wolfcamp will be acidized as necessary.

Please see attached procedure and Form C-102.

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plugback**

CONDITIONS OF APPROVAL: Intent to drill ONLY -- CANNOT produce until the Non-Standard Location for Oil well has been approved by OCD Santa Fe office

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: *Laci Luig*

Printed name: Laci Luig

Title: Engineer Tech.

E-mail Address: lluig@cimarex.com

Date: 3/31/08 Phone: (432) 571 7810

OIL CONSERVATION DIVISION

Approved by: *Chris Williams*

Title: **OCD DISTRICT SUPERVISOR/GENERAL MANAGER**

Approval Date: APR 02 2008 Expiration Date:

Conditions of Approval Attached ☐

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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 30-025-36260	² Pool Code 10830	³ Pool Name Caudill; Wolfcamp Perm Upper Penn
⁴ Property Code 35696	⁵ Property Name GTO 10 State Com	
⁷ OGRID No. 215099	⁸ Operator Name Cimarex Energy Company	
		⁶ Well Number 1
		⁹ Elevation 3908'

¹⁰ Surface Location

UL or lot no. E	Section 10	Township 15S	Range 36E	Lot Idn	Feet from the 1450'	North/South line North	Feet from the 1100'	East/West line West	County Lea
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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 320 40	¹³ Joint or Infill N	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.

<div><p>¹⁶</p><p>GTO 10 State Com #1</p></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, 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>Laci Luig</i> Date: <i>3/31/08</i></p> <p>Laci Luig, Engineer Tech. Printed Name</p>
	<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>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p>
	Certificate Number

GTO 10 State #1
Wolfcamp Recompletion Procedure

Well Data:

KB	22' above GL
TD	12997'
PBTD	12952'
Casing	13-3/8" 48# H-40 @ 400'. Cmt circ. 9-5/8" 40# P-110 @ 4825'. Cmt circ. 5-1/2" 17# P-110 @ 12997'. Cmt'd w/ 540 sx. TOC @ 11240' by CBL. DV Tool @ 8508'. Cmt'd w/ 460 sx. TOC @ 4878' by CBL.
Packer	10K AS1X Packer @ 12864'
Perfs	Austin (12892' – 12898') Atoka (12292' – 12366')

Procedure:

1. MIRU pulling unit. Kill well w/ fresh water. ND WH, NU BOP. Release pkr and TOOH w/ tbg & pkr.
2. RU Wireline, run gauge ring to 12850'. Run CIBP and set @ 12820' and dump 4 sx cmt on top of CIBP. Run CIBP and set @ 12250' and dump 4 sx cmt on top of CIBP. Perforate 5-1/2" casing with 6 shots w/ 120 degree phasing @ 11000' and 6 shots w/ 120 degree phasing @ 10500'. RD wireline.
3. TIH w/ 5-1/2" cmt retainer on 2-3/8" tbg and set retainer @ $\pm 10520'$. Pump in squeeze holes @ 11000' and establish circulation out squeeze holes @ 10500'. RU Halliburton. Mix and pump 150 sx of Super H cmt. Flush w/ fresh wtr to cmt retainer. After flushing to retainer, immediately sting out of retainer and pull tbg up to 9300'. Reverse out cmt from tbg. SI well for 48 hours.
4. TIH w/ bit, 6-DC's, and 2-3/8" tbg and drill out cmt and retainer to 10950'. Pressure test csg to 1500 psig. TOOH w/ bit, DC's, and tbg.
5. RU wireline and run CBL/CCL log from 11000' to 10000'. If necessary, resqueeze cement to obtain required cement coverage of Wolfcamp zone.
6. RU Wireline, Perforate Wolfcamp (10712' – 10719', 10752' – 10760') 2 JSPF w/ 4" casing guns and premium charges. Total of 30 holes. Depth Reference log Schlumberger Cement Bond Log dated September 19, 2006. RD wireline.

GTO 10 State #1

Wolfcamp Recompletion Procedure

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7. TIH w/ pkr on 2-3/8" tbg and set pkr @ \pm 10650'. RU Stimulation company and acidize Wolfcamp (10712' – 10760') w/ 3000 gals 15% HCl at 3-4 BPM down 2-3/8" tbg utilizing 45 ball sealers. Flush w/ fresh water. RD stimulation company.
8. Record shut-in pressures and swab test well.
9. Release pkr and TOOH & LD 2-3/8" tbg. TIH w/ 2-7/8" tbg and TAC for production. ND BOP, NU WH, TIH w/ rods & pump.