

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

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

1. Operator Name and Address CIMAREX ENERGY CO. OF COLORADO 5215 N. O'CONNOR BLVD. IRVING, TX 75039		2. OGRID Number 162683
		3. API Number 30-05-29033
4. Property Code 36907	5. Property Name YORKTOWN 12 FEE	6. Well No. 002

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	12	15S	31E	E	1980	N	330	W	CHAVES

**8. Pool Information**

Wildcat Wolfcamp	0
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 4384
14. Multiple N	15. Proposed Depth 13394	16. Formation Wolfcamp	17. Contractor	18. Spud Date 5/1/2008
Depth to Ground water 250		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 miles thick Clay <input type="checkbox"/> Pit Volume: 12000 bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**19. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	350	340	0
Int1	12.25	9.625	40	1800	572	0
Prod	8.75	7	26	9075	615	1300
Liner1	6.125	4.5	11.6	13394	0	

**Casing/Cement Program: Additional Comments**

Horizontal Operations: Set CBP @ 8660.' With whipstock at 8643,' mill window from 8645' to 8655.' Kick off 6?" hole at 8650' and drill horizontally to TD of 13394' MD and 8850' TVD. Run 4 1/2" 11.6# P-110 LTC Liner. TOL @ 8543 (at RSB Packer), BOL @ 13394.' No cement needed, as Peak Completion Assembly will be used.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Cameron

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 NMOCB guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCB-approved plan <input type="checkbox"/> .	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Zeno Farris	Approved By: Paul Kautz
Title: Manager Operations Administration	Title: Geologist
Email Address: zfarris@magnumhunter.com	Approved Date: 3/26/2008   Expiration Date: 3/26/2010
Date: 3/25/2008   Phone: 972-443-6489	Conditions of Approval Attached

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(505) 393-6161 Fax:(505) 393-0720

**District II**  
 1301 W. Grand Ave., Artesia, NM 88210  
 Phone:(505) 748-1283 Fax:(505) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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Form C-102  
 Permit 71882

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-05-29033	2. Pool Code	3. Pool Name Wildcat Wolfcamp
4. Property Code 36907	5. Property Name YORKTOWN 12 FEE	6. Well No. 002
7. OGRID No. 162683	8. Operator Name CIMAREX ENERGY CO. OF COLORADO	9. Elevation 4384

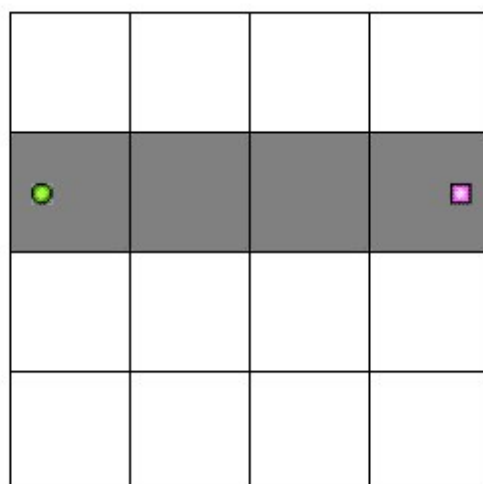
**10. Surface Location**

UL - Lot E	Section 12	Township 15S	Range 31E	Lot Idn	Feet From 1980	N/S Line N	Feet From 330	E/W Line W	County CHAVES
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**11. Bottom Hole Location If Different From Surface**

11. Bottom Hole Location if Different from Surface									
UL - Lot H	Section 12	Township 15S	Range 31E	Lot Idn H	Feet From 1980	N/S Line N	Feet From 330	E/W Line E	County CHAVES
12. Dedicated Acres 160.00		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**



**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(s) 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.*

E-Signed By: Zeno Farris  
 Title: Manager Operations Administration  
 Date: 3/25/2008

**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.*

Surveyed By: Ronald J Eidson  
 Date of Survey: 11/14/2007  
 Certificate Number: 3239

## Permit Comments

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: YORKTOWN 12 FEE #002

API: 30-05-29033

Created By	Comment	Comment Date
NKRUEGER	C-144, C-102, and preliminary directional survey will be emailed to Donna Mull.	3/25/2008
NKRUEGER	In accordance with NMAC 19.15.3.118 C. (1) governing the determination of the hydrogen sulfide concentration in gaseous mixtures in each of its operations, Cimarex Energy Co. does not anticipate that there will be enough H2S from the surface to the Wolfcamp formation to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of this test.	3/25/2008
NKRUEGER	Well is a proposed horizontal Wolfcamp test with SHL in UL E and BHL in UL H. Therefore, it will require a lay-down 160-acre spacing unit.	3/25/2008

# Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: YORKTOWN 12 FEE #002

API: 30-05-29033

OCD Reviewer	Condition
pkautz	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
pkautz	minimum setting depth for surface casing is 350'.
DMULL	Will require a directional survey with the C-104