### State of New Mexico

Form C-101 Permit 125181

### **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

	tor Name and Address RGY CO. OF COLORADO	2. OGRID Number 162683		
	N. Marienfeld St land, TX 79701	3. API Number 30-05-29169		
4. Property Code 38444	5. Property Name NASSAU 29 STATE COM	6. Wett No. 002H		

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	29	15S	31E	E	1830	N	330	W	CHAVES

#### 8. Pool Information

WILDCAT G-05 \$153117E;ABO-WOLFCAMP

97722

#### **Additional Well Information**

9. Work Type	10. Well Type	e 11. Cable/R	otary 12. Lease Type	13. Ground Level Elevation
New Well	OIL		State	4431
14. Multiple	15. Proposed D	epth 16. Form	74 pag	r 18. Spud Date
N	13229	Wolfca		2/15/2011
Depth to Ground	water	Distance from ne	earest fresh water well	Distance to nearest surface water
Pit: Liner: Synthetic Closed Loop Syste	mils	thick Clay Pit Volume:	bbls Drilling Method: Fresh Water   Brine	Diesel/Oil-based Gas/Air

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	385	0
Prod	8.75	7	26	8530	1295	0
Liner1	6.125	4.5	11.6	13229	0	
Prod	8.75	2.875	2.18	9050	0	

#### Casing/Cement Program: Additional Comments

Cimarex proposes to drill 12-1/4" hole to 3950 and if hole conditions permit, trip out and drill 8-3/4" to 9050 and set 7" casing, thereby eliminating the intermediate casing string. If hole conditions do not permit, we will set 9-5/8" 40# J55 LTC intermediate casing at 3950 and cement with 1165 sx cement, TOC surface.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Cameran

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	OIL CONSERVATION DIVISION			
NMOCD guidelines, a general permit, or an (attached) alternative OCD-approved plan	Approved By: Paul Kautz			
Printed Name: Electronically filed by Zeno Farris	Title: Geologist			
Title: Manager Operations Administration	Approved Date: 1/7/2011 Expiration Date: 1/7/2013			
Email Address: zfarris@cimarex.com				
Date: 1/4/2011 Phone: 432-620-1936	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

## State of New Mexico

Form C-102 Permit 125181

## Energy, Minerals and Natural Resources Oil Conservation Division

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	17.5 (		Pool Name 33117E;ABO-WOLFCAMP	
30-05-29169				
4. Property Code	5. Property Name		6. Well No.	
38444	NASSAU 29 STATE COM		002H	
7. OGRID No.	8. Oper	9. Elevation		
162683	CIMAREX ENERGY CO. OF COLORADO 4431			

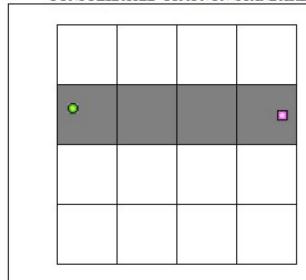
#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	29	15S	31E	*******	1830	N	330	W	CHAVES

#### 11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	29	15S	31E	H	1980	N	330	E	CHAVES
	cated Acres	13. 3	oint or Infill		. Consolidation Communitizat			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: 1/4/2011

#### 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: Gary L. Jones Date of Survey: 12/9/2010 Certificate Number: 7977

## **Permit Comments**

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683 Well: NASSAU 29 STATE COM #002H

API: 30-05-29169

Created By	Comment	Comment Date
NKRUEGER	PEAK Completions Systems iso-packer, iso-port liner will be used and will not require comenting. KOP for the lateral will be 8530.' Projected TD at BHL is MD 13229,' TVD 8721.'	1/4/2011
NKRUEGER	C-102, C-144, and preliminary directional survey will be emailed to Hobbs OCD.	1/4/2011
NKRUEGER	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 this test.	1/4/2011
pkautz	Land S/S	1/5/2011

# **Permit Conditions of Approval**

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683 Well: NASSAU 29 STATE COM #002H

API: 30-05-29169

OCD Reviewer	Condition
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string