

**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 30-05-29039
4. Property Code 37249	5. Property Name LANGLEY 33 STATE COM	
		6. Well No. 001

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	33	15S	31E	A	375	N	375	E	CHAVES

**8. Pool Information**

WILDCAT ABO	0
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 4390
14. Multiple N	15. Proposed Depth 13269	16. Formation Abo	17. Contractor	18. Spud Date 9/1/2008
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick    Clay <input type="checkbox"/> Pit Volume:      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	330	0
Int1	12.25	9.625	40	3950	650	0
Prod	8.75	7	26	9075	615	3750
Liner1	6.125	4.5	11.6	13269	0	

**Casing/Cement Program: Additional Comments**

Set and cement 7" casing in pilot hole. Set whipstock plug and mill window from 8565'-8575' and kick off horizontal leg @ 8570.' Drill to TD of MD 13269' and TVD 8790.' Run 4.5" PEAK Completion Assembly liner which will require no cement.

**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. <b>I further certify that the drilling pit will be constructed according to NMOCB guidelines <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCB-approved plan <input type="checkbox"/> .</b>	<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: 7/8/2008	Expiration Date: 7/8/2010
Date: 7/7/2008	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 78118

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-05-29039	2. Pool Code	3. Pool Name WILDCAT ABO
4. Property Code 37249	5. Property Name LANGLEY 33 STATE COM	6. Well No. 001
7. OGRID No. 162683	8. Operator Name CIMAREX ENERGY CO. OF COLORADO	9. Elevation 4390

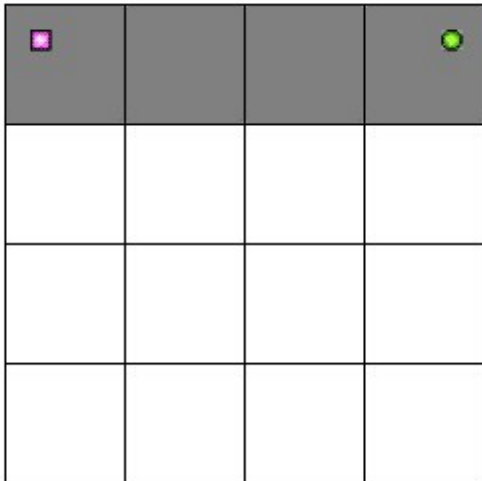
**10. Surface Location**

UL - Lot A	Section 33	Township 15S	Range 31E	Lot Idn	Feet From 375	N/S Line N	Feet From 375	E/W Line E	County CHAVES
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**11. Bottom Hole Location If Different From Surface**

UL - Lot D	Section 33	Township 15S	Range 31E	Lot Idn D	Feet From 375	N/S Line N	Feet From 375	E/W Line W	County CHAVES
12. Dedicated Acres 160.00		13. Joint or Infill		14. Consolidation Code Communitization		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**

	<b>OPERATOR CERTIFICATION</b>	
	<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(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.</i>	
	E-Signed By: Zeno Farris Title: Manager Operations Administration Date: 7/7/2008	
	<b>SURVEYOR CERTIFICATION</b>	
<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>		
Surveyed By: Gary L. Jones Date of Survey: 5/2/2008 Certificate Number: 7977		

## Permit Comments

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: LANGLEY 33 STATE COM #001

API: 30-05-29039

Created By	Comment	Comment Date
NKRUEGER	C-102, C-144, and preliminary directional survey will be emailed to Donna Mull.	7/7/2008
NKRUEGER	This well is a proposed Horizontal Abo oil test with a SHL in UL A and a BHL in UL D. Therefore, it will require a N2N2 160-acre laydown oil well spacing unit.	7/7/2008
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 Abo formation to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of this test.	7/7/2008
DMULL	OCD received form C-144, Pit registration. OCD Pit Permit Number P1-00107.	7/8/2008

# Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: LANGLEY 33 STATE COM #001

API: 30-05-29039

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