

**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 30-05-29040
4. Property Code 37155	5. Property Name BUNKER HILL 32 STATE	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
A	32	15S	31E	A	660	N	375	E	CHAVES

**8. Pool Information**

Abo Wildcat	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 4407
14. Multiple N	15. Proposed Depth 12878	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"/> mils 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	12878	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 12878' 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.

I further certify that the drilling pit will be constructed according to NMOCB guidelines ☐ a general permit ☐ or an (attached) alternative OCB-approved plan ☐.

Printed Name: Electronically filed by Zeno Farris

Title: Manager Operations Administration

Email Address: zfarris@magnumhunter.com

Date: 6/26/2008      Phone: 972-443-6489

**OIL CONSERVATION DIVISION**

Approved By: Paul Kautz

Title: Geologist

Approved Date: 7/9/2008      Expiration Date: 7/9/2010

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 77670

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-05-29040	2. Pool Code	3. Pool Name Abo Wildcat
4. Property Code 37155	5. Property Name BUNKER HILL 32 STATE	6. Well No. 002
7. OGRID No. 162683	8. Operator Name CIMAREX ENERGY CO. OF COLORADO	9. Elevation 4407

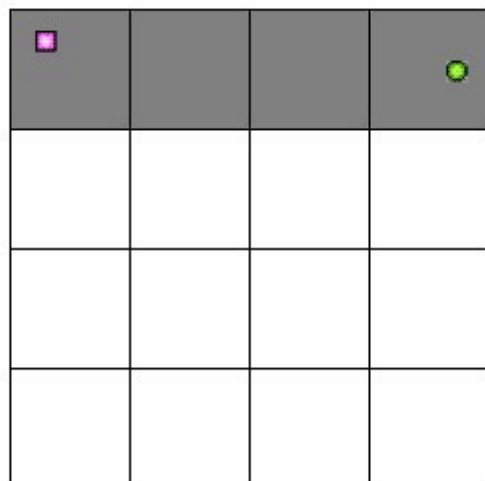
**10. Surface Location**

UL - Lot A	Section 32	Township 15S	Range 31E	Lot Idn	Feet From 660	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 32	Township 15S	Range 31E	Lot Idn D	Feet From 330	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			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: 6/26/2008

**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: Gary L. Jones  
 Date of Survey: 5/12/2008  
 Certificate Number: 7977

## Permit Comments

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: BUNKER HILL 32 STATE #002

API: 30-05-29040

Created By	Comment	Comment Date
NKRUEGER	C-102, C-144, and preliminary directional survey will be emailed to Donna Mull.	6/26/2008
NKRUEGER	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 160-acre laydown N2N2 oil well spacing unit.	6/26/2008
DMULL	OCD received C-144 "Pit Registration". OCD Pit permit number P1-00109.	7/9/2008

# Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: BUNKER HILL 32 STATE #002

API: 30-05-29040

OCD Reviewer	Condition
pkautz	Pit construction and closure must satisfy all requirements of your approved plan, D.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
pkautz	Minimum surface casing setting depth in District 1 is 350'