

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. 15 EAST 5TH STREET TULSA , OK 74103		2. OGRID Number 215099
		3. API Number 30-025-38606
4. Property Code 36833	5. Property Name MISSOURI UNIT 13 FEE	6. Well No. 005

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	13	15S	37E	B	430	N	2150	E	LEA

8. Pool Information

DENTON-WOLF CAMP	17290
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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 3776
14. Multiple N	15. Proposed Depth	16. Formation Wolfcamp	17. Contractor	18. Spud Date 1/7/2008
Depth to Ground water 47		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic ☐ miles thick Clay ☐ Pit Volume: bbls Drilling Method:				
Closed Loop System ☒ 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	600	510	0
Int1	12.25	8.625	32	4500	1402	0
Prod	7.875	5.5	17	9800	530	4550
Liner1	4.75	2.875	6.5	11200	0	

Casing/Cement Program: Additional Comments

PEAK Completions Systems iso-packer, iso-port system will be used and will not require cementing. KOP for the lateral will be 9151'. Projected TD at BHL is MD 11148' and TVD 9350'.

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 NMOCD guidelines ☐ a general permit ☐ , or an (attached) alternative OCD-approved plan ☐.	OIL CONSERVATION DIVISION	
	Approved By: Paul Kautz	
Printed Name: Electronically filed by Sharon LaValley	Title: Geologist	
Title: Manager	Approved Date: 11/15/2007	Expiration Date: 11/15/2008
Email Address: slavalley@cimarex.com		
Date: 11/13/2007	Phone: 918-295-1673	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
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
 Permit 63538

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-38606	2. Pool Code 17290	3. Pool Name DENTON,WOLFCAMP
4. Property Code 36833	5. Property Name MISSOURI UNIT 13 FEE	6. Well No. 005
7. OGRID No. 215099	8. Operator Name CIMAREX ENERGY CO.	9. Elevation 3776

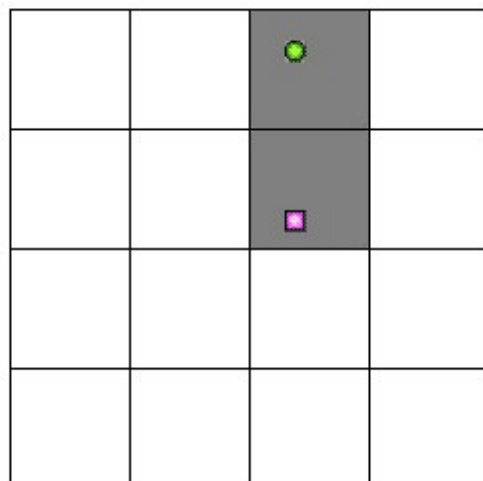
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	13	15S	37E		430	N	2150	E	LEA

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
G	13	15S	37E	G	2310	N	2150	E	LEA
12. Dedicated Acres 80.00		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: Sharon LaValley

Title: Manager

Date: 11/13/2007

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: 10/23/2007

Certificate Number: 7977

Permit Comments

Operator: CIMAREX ENERGY CO. , 215099

Well: MISSOURI UNIT 13 FEE #005

API: 30-025-38606

Created By	Comment	Comment Date
ZFARRIS1	C-102 and C-144 will be emailed to Donna Mull.	10/31/2007
ZFARRIS1	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.	10/31/2007
ZFARRIS1	This will be a horizontal Wolfcamp test with a SHL in UL B and a BHL in UL G. Therefore, it will require a stand-up 80 acre spacing unit (W2NE4).	10/31/2007
ZFARRIS1	Preliminary directional survey will be emailed to Donna Mull.	11/13/2007

Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. , 215099

Well: MISSOURI UNIT 13 FEE #005

API: 30-025-38606

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