# State of New Mexico

Form C-101 Permit 80791

# **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

	THE DECEMBER OF THE WATER OF DESIGNATION OF THE DECEMBER OF TH								
1	Operator Name and Address	2. OGRID Number							
CI	215099								
1	5 EAST 5TH STREET TULSA , OK 74103	3. API Number							
	10L3A, OK 74103								
4. Property Code	5. Property Name	6. Well No.							
36700	HARVARD 6 FEE	005							

### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	6	15S	38E	3	480	И	1800	W	LEA

### 8. Pool Information

DENTON; WOLFCAMP   17290
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### Additional Well Information

<u>v</u>	501		2300	maona wen	mornia	.101t	0.6	
9. Work Type New Well				11. Cable/Rotary 12. Lease Type Private  16. Formation 17. Contractor Wolfcamp			13. Ground Level Elevation 3785 18. Spud Date 10/1/2008	
**************************************								
Depth to Ground	Depth to Ground water			Distance from nearest fresh water well			Distance to nearest surface water	
<u>Pit:</u> Liner: Synthetic Closed Loop Syste	m [	mils thick	Clay	Pit Volume:		rilling Method: resh Water 🔀 Brine 🗀	Diesel/Oil-based Gas/Air	

19. Proposed Casing and Cement Program

Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	635	510	0
Int1	11	8.625	32	4500	1160	0
Prod	7.875	5.5	17	9625	915	4375
Liner1	4.75	2.875	6.4	9478	0	
Liner1	4.75	2.875	6.5	11115	0	· ·

# Casing/Cement Program: Additional Comments

Drill, case, and cement surface, intermediate, and production holes. Kick off 4.75" lateral at 9175' and drill to TD of 11115' MD and 9368' TVD. Install 2-7/8" 6.5" L-80 from TD @ 11115' to EOC @ 9478' and 2-7/8" 6.4# Ultra FX from EOC @ 9478' to liner hanger @ 9075.' Lateral liner will be PEAK liner and will not require cement.

Proposed Blowout Prevention Program

8	Туре	Working Pressure	Test Pressure	Manufacturer
1	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 Sharon LaValley	Title: Geologist			
Title: Manager	Approved Date: 9/8/2008 Expiration Date: 9/8/2010			
Email Address: slavalley@cimarex.com				
Date: 8/22/2008 Phone: 918-295-1673				

District I

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

<u>District II</u>

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 80791

# Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

YY	ELL LOCATION AND ACK	EAGE DEDICATION PLAT			
1. API Number	2. Pool Code	3. Pool Name			
30-025-39132	17290	DENTON;WOLFCAMP			
4. Property Code	5. Property	Name 6. Well No.			
36700	HARVARI	06 FEE 005			
7. OGRID No.	8. Operator	Name 9. Elevation			
215099	CIMAREX EN	ERGY CO. 3785			

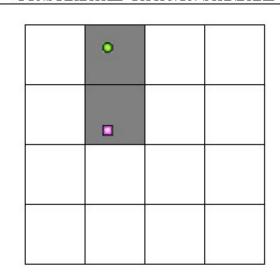
### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	6	15S	38E		480	И	1800	w	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
F	6	15S	38E	F	2310	N	1800	W	LEA
0.500	cated Acres	13	Joint or Infill	1.	4. 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: 8/22/2008

## 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: 5/21/2008 Certificate Number: 7977

# **Permit Comments**

Operator: CIMAREX ENERGY CO. , 215099 Well: HARVARD 6 FEE #005

API: 30-025-39132

Created By	Comment	Comment Date
ZFARRIS1	C-102, C-144, and preliminary directional survey will be emailed to Donna Mull.	8/21/2008
ZFARRIS1	Well is proposed horizontal Wolfcamp test with SHL in UL C and BHL in UL F. Therefore, it will require a stand-up E2NW 80.12-acre oil well spacing unit.	8/21/2008
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.	8/21/2008
DMULL	OCD received form C-144 "Pit Registration". OCD Permit Number P1-00417.	9/8/2008