## State of New Mexico

Form C-101 Permit 60071

## **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

I I I I I I I I I I I I I I I I I I I	THE DECEMBER OF THE PROPERTY O								
1.	1. Operator Name and Address								
CI	215099								
1	5 EAST 5TH STREET TULSA , OK 74103	3. API Number							
	10LSA , OK 74103								
4. Property Code	5. Property Name	6. Well No.							
36700	HARVARD 6 FEE	002							

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	6	15S	38E	4	430	N	430	W	LEA

#### 8. Pool Information

DENTON:WOLFCAMP	17290

#### Additional Well Information

	501		zadawonan men	IIIOIIIIIIIII		COS.
9. Work Type New Well	2000	ell Type IL	11. Cable/Rotary	12	. Lease Type Private	13. Ground Level Elevation 3792
14. Montriple N	15. Prop	osed Depth	16. Formation Wolfcamp	84	7. Contractor	18. Spud Date 10/10/2007
Depth to Ground 53	l water		Distance from nearest	fresh water well		Distance to nearest surface water
<u>Pit:</u> Liner: Synthetic Closed Loop Syste	em 🛮	mils thick	Clay Pit Volume:	bbls Drilling I Fresh Wa		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	600	550	0
Int1	11	8.625	32	4560	1750	0
Prod	7.875	5.5	17	9825	825	8865
Liner1	6 125	2.875	6.5	11166	n	

#### Casing/Cement Program: Additional Comments

PEAK Completions Systems iso-packer and iso-port liner will be used and will not require cementing. KOP for the lateral will be 9180'. Projected TD at BHL is 9368' TVD and 11166' MD. Preliminary directional survey will be emailed to Donna Mull.

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Cameran

of my knowledge and belief.	given above is true and complete to the best  pit will be constructed according to	OIL CONSERVATION DIVISION		
NMOCD guidelines , a genera OCD-approved plan .	permit , or an (attached) alternative	Approved By: Paul Kautz		
Printed Name: Electronically	filed by Sharon LaValley	Title: Geologist		
Title: Manager		Approved Date: 9/5/2007	Expiration Date: 9/5/2008	
Email Address: slavalley@ci	marex.com			
Date: 9/4/2007	Phone: 918-295-1673	Conditions of Approval Atta	ached	

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

<u>District III</u>

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

Permit 60071

Form C-102

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

Santa Fe, NM 87505

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

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1. API Number	2. Pool Code	3. Pool Name	
30-025-38513	17290	DENTON;WOLFCAMP	
4. Property Code	5. Property 1	fame 6. Well No.	
36700	HARVARD	6 FEE 002	
7. OGRID No.	8. Operator F	fame 9. Elevation	
215099	CIMAREX ENE	RGY CO. 3792	

#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	6	15S	38E		430	N	430	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
E	6	15S	38E	E	2310	N	430	W	LEA
107511075	cated Acres	13. J	foint 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

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#### 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: 9/4/2007

#### 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: 8/15/2007 Certificate Number: 7977

# **Permit Comments**

Operator: CIMAREX ENERGY CO. , 215099 Well: HARVARD 6 FEE #002

API: 30-025-38513

Created By	Comment	Comment Date
ZFARRIS1	C-144 will be emailed to Donna Mull.	8/30/2007
ZFARRIS1	Cimarex Energy Co. does not anticipate that there will be enough H2S from the surface to the Wolfcmp formation to meet the OCD's minimum requirements for the submission of a contingency plan for this test.	8/30/2007
ZFARRIS1	The Harvard 6 Fee 2 will be a horizontal Wolfcamp drill with the SHL in Unit D and the BHL in Unit E of 6-15S-38E. Therefore, the spacing unit will be a stand-up 80 W2NW acre spacing.	8/30/2007

# Permit Conditions of Approval

Operator: CIMAREX ENERGY CO., 215099 Well: HARVARD 6 FEE #002

API: 30-025-38513

OCD Reviewer	Condition
IDKAUTZ	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