State of New Mexico

Form C-101 Permit 66451

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

MILLIONION	CTERMIT TO DICIED, RE-ENTER, DEET EN,	HOODINGE, OR HOD IT BOTTE
	1. Operator Name and Address	2. OGRID Number
(215099	
	15 EAST 5TH STREET TULSA , OK 74103	3. API Number
	10L3A, OK 74103	
4. Property Code	5. Property Name	6. Well No.
36898	SHAVANO 13 FEE	006

7. Surface Location

UL - I	ot Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	13	15S	37E	0	480	S	2160	E	LEA

8. Pool Information

DENTON; WOLFCAMP 1729

Additional Well Information

9. Work Type New Well	10. Well OII		11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 3772	
14. Minitiple N	15. Propos	ed Depth	16. Formation Wolfcamp	17. Contractor	18. Spud Date 1/5/2008	
Depth to Ground 45	water		Distance from nearest fresh water wel	1	Distance to nearest surface water	
Pit: Liner: Synthetic Closed Loop Syster		mils thick		rilling Method: resh Water Brine 1	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	510	0
Int1	11	8.625	32	4500	1390	0
Prod	7.875	5.5	17	9800	565	4100
Liner1	4.75	2.875	6.5	11151	0	

Casing/Cement Program: Additional Comments

PEAK Completions Systems iso-packer, iso-port liner will be used and will not require cementing. KOP for the lateral will be 9212.' Projected TD at BHL is MD 11151,' TVD 9403.'

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer	
DoubleRam	5000	5000	Cameran	

of my knowledge and belief.	ation given above is true and complete to the best ling pit will be constructed according to	OIL CONSERVATION DIVISION			
NMOCD guidelines, a ge OCD-approved plan	neral permit , or an (attached) alternative	Approved By: Paul Kautz			
Printed Name: Electronic	ally filed by Sharon LaValley	Title: Geologist	MG		
Title: Manager		Approved Date: 12/20/2007	Expiration Date: 12/20/2008		
Email Address: slavalley	@cimarex.com				
Date: 12/19/2007	Phone: 918-295-1673	Conditions of Approval Attac	hed		

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

<u>District III</u> 1000 Rio Brazos Rd., Azize, 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 66451

Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

***	ELL LOCATION AND A	MEAGE DEDICATION	TLAI
1. API Number	2. Pool Code		3. Pool Name
30-025-38645	17290	DENT	ON;WOLFCAMP
4. Property Code	5. Prop	erty Name	6. Well No.
36898	SHAVANO 13 FEE		006
7. OGRID No.	8. Operator Name		9. Elevation
215099	CIMAREX	ENERGY CO.	3772

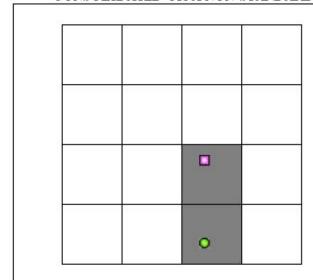
10. Surface Location

ò	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	0	13	15S	37E		480	S	2160	E	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idm	Feet From	N/S Line	Feet From	E/W Line	County
J	13	15S	37E	J	2310	S	2160	E	LEA
107511075	cated Acres	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: 12/19/2007

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: 11/16/2007 Certificate Number: 7977

Permit Comments

Operator: CIMAREX ENERGY CO. , 215099 Well: SHAVANO 13 FEE #006

API: 30-025-38645

Created By	Comment	Comment Date
ZFARRIS1	C-102, C-144, and preliminary directional survey will be emailed to Donna Mull.	12/19/2007
ZFARRIS1	The Shavano 13 Fee 6 is a proposed horizontal Wolfcamp test with SHL in UL O and BHL in UL J. Therefore, the well will require a stand-up 80-acre spacing unit.	12/19/2007
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.	12/19/2007

Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. , 215099 Well: SHAVANO 13 FEE #006

API: 30-025-38645

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