District I 1625 N. Fren District II 1301 W. Grau District III 1000 Rio Bra District IV 1220 S. St. Fr	nd Avenue, zos Road, .	, Artesi Aztec,	ia, NM NM 87	⁸⁸²¹⁰ SEP 3 ⁴¹⁰ HOBE	30 2010	State By Minera Oil Cons 1220 So Santa	servat outh St		sion Dr.	rces	S	ubmit to a		Form C- May 27, iate District O ENDED REPO	2004 Office		
APPL	JCATI	[ON	FOR	PERMIT	TO DR	ILL, RE-	ENTI	ER, DEI	EPEN	, PL	UGBAC	CK. OF	RADI	D A ZONE			
			Operator Nam						OGRID Number 162683								
Cimarex Energy Co. of Colorado // // // // // // // // // // // // //													'API Number				
Midland,			. 000						30-025-34626 🖌								
' Property Code						Name	√ame				° Well No.						
300545				Red Hills Unit						004 /							
⁹ Proposed Pool 1								¹⁰ Proposed Pool 2									
Red Hills; Wolfcamp (Gas)																	
⁷ Surface Location																	
UL or lot no. N	Section 32			Range Lot Idn		Feet from the 454							West line County		-		
	52	2.	55	33E							500	Wes	st	Lea			
TTT - Lat		-	<u>.</u> . [n Hole Loca											
UL or lot no.	Section	Tow	nship	Range	Lot Idi	1 Feet fr	om the	North/Sout	h line	Feet	from the	East/Wes	t line	County			
L	I		I_		Add	 litional We	ell Info	rmation				•					
Additional Well Information ¹¹ Work Type Code ¹² Well Type Code ¹³ Cable/Rotary ¹⁴ Lease Type Code ¹⁵ Ground Level Elevation																	
P				G					S				387 GL				
¹⁶ Multiple N				¹⁷ Proposed De 14900' (PB		¹⁸ Formation Wolfcamp		¹⁹ Cont N				²⁰ Spud Date When Approved					
Depth to Grou				11) 00041		from nearest fre	······			N/A Distance from nearest s							
	Synthetic		mils t	hick Clay				Drilling	Mathad								
	•			•		e001s				. r		–		. —			
Closed-Loop System Flowback Tanks Fresh Water Brine Diesel/Oil-based Gas/Air 21 Proposed Casing and Cement Program												~					
							and Cement Program										
Hole Size			Casing Size		Casing weight/foot		Setting Depth			Sacks of Cem							
	17½		20 13¾		94 & 106 72 & 68		<u> </u>			<u> </u>			Circ				
-	12¼		95%8		53.5		13002			1475		Circ Circ					
			7					12750-17046			585						
			4½					16827-17675			100		L				
 ²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. Well currently SI in Devonian. Plan to set 2 plugs, one CIBP @ 17400 w 10.5 bbl Cl H cmt and a balanced plug @ 1500-14861 w 25 sx Cl H. Temporary TA applied for via Sundry Notice. Then plan to recomplete to Wolfcamp as shown below and on attached procedure. Perf Wolfcamp 13708-13726 2 spf. Flow test and stabilize production. Acidize with 5000 gal 15% HCl and displace w 2% KCl. 																	
²³ I hereby cer	²³ I hereby certify that the information given above is true and complete to the									OIL CONSERVATION DIVISION							
best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or								Approved by:									
an (attached)	alternativ)-appr	pved plan 🗌.		Appio	veu by.	3	la.	uty-								
Signature: Watalw Krueger								Title: PETROLEUM ENGINEER									
Title: Regulatory								Approval Date: OCT 2 9 2010 Expiration Date:									
E-mail Address: <u>nkrueger@cimarex.com</u>								Approval Date: Expiration Date:									
Date: September 29, 2010 Phone: 432-620-1936							Conditions of Annexuel Attacked										
Date. September 23, 2010 Phone: 432-020-1930								Conditions of Approval Attached									

Red Hills Unit # 4 Wolfcamp Recompletion Procedure API # 30025291910001

454' FSL & 1500' FWL Section 32, T25S, R33E Lea County, Mew Mexico

27' above GL
17675'
17628'
20" 94 & 106 # J-55 @ 892'. Cmtd w/ 1700 sx. Cmt circ.
13-3/8" 72 & 68 # P-110 and J-55 @ 4880' Cmtd w/ 2745 sx. Cmt circ.
9-5/8" 53.5 # P110 @ 13002' Cmtd w/ 1475 sx.
7" 38 # P110 @ 12750-17046' Cmtd w/ 585 sx.
4-1/2" 13.5 # P-110 @ 16827-17675'. Cmtd w/ 100 sx. Full Returns.
Devonian (17468' –72', 17504'-22', 17530'-67') w CIBP @ +- 17400' w
375' cmt plug 50' above TOL and 100' cmt plug at 14861' to 15000'.

.Well TA

- 1. MIRU pulling unit. Kill well with 6% KCL ND WH, NU BOP. TOOH w/ tbg.
- 2. NU 10 K Frac Valve, BOP on top of valve.
- 3. Run Wireline CBL from 13900 to 12900.
- 4. RIH W/ TCP perforating guns, Sub, XN Nipple, Sub, PKR, Nipple and Tbg. Hydrotesting to 8000 psi.
- 5. RUWL. Correlate Logs to packer and TCP Setting Depth. Space out TCP guns to open hole logs to perforate (13708'-13726'). RDWL. Depth reference log Schlumberger. Platform Express Density Neutron, Run 2, Date: Feb 2, 2000.
- 6. Set PKR W/ Recommendation by packer Company.
- 7. RU N2 Unit. Pressure up on tubing to fire Guns. RD N2 Unit.
- 8. Record pressures before flowing well to vessels.

9. Flow Test Well, Stabilize Production.

NOTE: Timing of Acid Job to be Determined by Flow Rates.

- 10. Acidize (13708'-13726') w/5000 gal 15% HCL. *Note: Max Pressure for acid 5500 PSI.*
- 11. Displace acid w/ 2% KCL.

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- 12. Swab well until pH is greater than 4.5.
- 13. Record fluid levels and oil cuts and report to Midland.