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APPLICATION	FOR PERMIT TO	DRILL OR DE	EPEN			
1a. TYPE OF WORK					- 7. UNIT AGREEMENT NA	ME
1b. TYPE OF WELL OIL X GAS WELL WELL WELL 2. NAME OF OPERATOR	OTHER	SINGLE 🗙	MULTIPLE		8. FARM OR LEASE NAM	27
Cimarex Energy Co. of Colorado			21022	23	Pipeline B 5 Federa	al No. 2
3. ADDRESS AND TELEPHONE NO.					30-025- 386	<u> </u>
P.O. Box 140907 Irving TX 75014	972-401-3111				10. FIELD AND POOL, OF	
4. LOCATION OF WELL (Report location cle	arly and in accordance with a	any State requirements.*)			E-K; Bone Spring	/
1650' FSL & 1980' FWL 14. distance in miles and direction from near	EST TOWN OR POST OFFICE	•	rit K		11. SEC, T.,R.,M., BLOCK OR AREA K-5-191 12. COUNTY OR PARISH	
33 miles West of Hobbs, NM			•		Lea	NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, T.O (Also to nearest drig. unit line, if any)	650'	18. NO. OF ACRES IN 1 1114.36	EASE	17. NO. OF TO THIS WE	ACRES ASSIGNED ELL 40	
18. DISTANCE FROM PROPOSED LOCATION*			ROPOSED DEPTH	 20. F	OTARY OR CABLE TOOLS	s
TO NEAREST WELL, DRILLING COM OR APPLIED FOR, ON THIS LEASE, I		1100	00'	Rot	ary	
21. ELEVATIONS (Show whether DF, RT, GR, etc. 3821' GR) Capitan	Controlled W(Nir Besh		22. APPROX. DATE WOR 02-15-07	K WILL START
		ING AND CEMENT				
SIZE OF HOLE GRADE,SIZ 17-1/2" H-40 13-3/8" S	E OF CASING	WEIGHT PE	•	450'	NG DEPTH	QUANTITY OF CEMENT 410 sx Prem circ surf
17-1/2 11-40 15-5/6 T		48#		3700'		1200 sx Prem circ surf
		17#		11000'		
system. We are requesting a variance for all casing strings below the conductor s exceed 70% of the manufacturer's stated	8-3/4" P-110 5-1/2" LT&C 17# 11000' 2155 sx TOC 1250' 7.2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-					
13-3/8" casing and BOP system to 1000		-	-	-	-	15342
IN ABOVE SPACE, DESCRIBE PROP If proposal is to drill or deepen directionally, gi		unface locations and me				
SIGNED	Fucun	TITLE Mgr	Ops. Admin		DATE	
(This space for Federal or State office use) PERMIT No.						
Application approval does not warrant or certify that the app CONDITIONS OF APPROVAL, IF ANY: APPROVED BY //S/ Tor	y J. Herrell	TITLE FIE	eld man	VAGE	APPRO	JUL 2 8 2006 VAL FOR 1 YEAR
Title 18 U.S.C. Section 1001, r	nakes it a crime for an	y person knowingly a	ind willfully to mal	ke to any d	epartment or agency	of the
United States any false, fictitio Witmess Surface (ons as to any ma	ap Ge Sp	PROVAL SU	UIREMENTS AND



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Cimarex Energy Co. of Colorado 5215 North O'Connor Blvd.
Suite 1500
Irving, TX 75039
(972) 401-3111
Fax (972) 443-6486 Mailing Address: P.O. Box 140907
Irving, TX 75014-0907 A wholly-owned subsidiary of Cimarex Energy Co., a NYSE Listed Company, "XEC"

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Bureau of Land Management 620 E. Greene St. Carlsbad, New Mexico 88220 Attn: Ms. Linda Denniston

Cimarex Energy Co. of Colorado accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land, or portion thereof, as described below:

Lease No.: NM-4314 – NE/4SW/4 5-19S-34E

County: Lea County, New Mexico

Formation (S): **Bone Spring**

Bond Coverage: Statewide BLM Bond

BLM Bond File No.: NM 2575

Zeno -ani Authorized Signature:

Representing Cimarex Energy Co. of Colorado

Name: Zeno Farris

Title: Manager, Operations Administration

Date: June 30, 2006

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

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DISTRICT II 1301 W. Grand Avenue, Artesia, NN 68210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

C AMENDED REPORT

API Number 3 <i>P</i> - <i>D</i> 25-38	PALL	Pool Code 21650			Pool Name E-K; Bone Spring				
Property Code		Property Name Well Number PIPELINE "B-5" FEDERAL 2					ımber		
ogrid no. 162683		CIM	Operator Name CIMAREX ENERGY CO. OF COLORADO					Elevation 3821'	
				Surfac	e Loca	ation			
UL or lot No. Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County
К 5	19 S	34 E			50	SOUTH	1980	WEST	LEA
III on lot No. Soution	Township					rent From Sur		Foot /Woot line	Country
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Dedicated Acres Joint o 40		nsolidation (Code Or	der No.					
NO ALLOWABLE W		SIGNED	TO THIS	COMPLET		INTIL ALL INTER	FSTS HAVE DE		
						APPROVED BY			
NO Put 1980'-	CASU NM-4 3825.7' 	314	Pipe Lat – N3. Long – M NMSPCE-	in line B 2*41'11.5" (103*35'04 * 614302. = 771691. == 83)	5 Fe	ive Section d #2	I hereby cert contained herein the best of my I this organization interest or unlead land including the location pursuan owner of such a or to a voluntar compulsory poolis the division. Zeno Far Printed Name SURVEYOI I hereby certify on this plat was actual surveys supervison and correct to the Date Surveys Signature of Professional Certificate No	R CERTIFICAT that the well locati s plotted from field made by me or t that the same is best of my belief 23.45 12	ation lete to and that ing in the tote an interest, or 30-06 Date ION on shown notes of under my irue and

Application to Drill

Cimarex Energy Co. of Colorado Pipeline B 5 Federal No. 2 Unit K Section 5 T19S-R34E Lea County, NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

1 Location: 1650' FSL & 1980' FWL 2 Elevation above sea level: GR 3821' 3 Geologic name of surface formation: **Quaternery Alluvium Deposits** 4 Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal. 5 Proposed drilling depth: 11000' 6 Estimated tops of geological markers: Yates 3240' Queen 4479' Bone Spring 7817' 7 Possible mineral bearing formation: **Bone Spring** Oil 8 Casing program:

 Hole Size	Interval	Casing OD	Weight	Thread	Collar	Grade
 17-1/2"	0 - 450'	13-3/8"	48	8-R	ST&C	H-40
12-1/4"	0 - 3700'	9-5/8"	40	8-R	LT&C	J-55
8-3/4"	0 - 11000'	5-1/2"	17	8-R	LT&C	P-110

Application to Drill

Cimarex Energy Co. of Colorado Pipeline B 5 Federal No. 2 Unit K Section 5 T19S-R34E Lea County, NM

9 Cementing & Setting Depth:

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	13 3/8"	Surface		Set 450' of 13 3/8" H-40 48# ST&C casing. Cement lead with 270 Sx. Of Premium Plus + additives and tail with 140 sx Premium Plus + additives, circulate cement to surface.
	9 5/8"	Intermediate		Set 3700' of 9 5/8" J-55 40# LT&C casing. Cement lead with 1000 Sx. Of Class Premium Plus + additives, tail with 200 Sx. Of Premium Plus + additives, circulate cement to surface.
	5 1/2"	Production		Set 11000' of 5 1/2" P-110 17# LT&C casing. Cement in two stages, first stage cement with 1555 Sx. of Class POZ/C Cement + additives. Second stage cement with 600 Sx of Class "C". Estimated top of cement 1250'.
10 <u>Pressure</u>	<u>e control Equipm</u>	<u>ent:</u>	one set of the preventer. remote oper below 6000 condition and available or will be nipping a day while	A 13 3/8" 5000 PSI working pressure B.O.P. consisting of olind rams and one set of pipe rams and a 5000 # annular type A choke manifold and 120 gallon accumulator with floor and trating stations and auxiliary power system. Rotating head b. A kelly cock will be installed and maintained in operable and a drill string safety valve in the open position will be in the rig floor. BOP unit will be hydraulically operated. BOP led up on the 9 5/8" casing and will be operated at least once drilling and the blind rams will be operated when out of hole . No abnormal pressure or temperature is expected while

11 Proposed Mud Circulating System:

Depth	Mud Wt	Viscosity	Fluid Loss	Type Mud
0 - 450'	8.4 - 8.6	30 - 32	May lose circ.	Fresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.
450' - 3700'	9.7 - 10.0	28 - 29	May lose circ.	Fresh water to the top of the 1st salt in Rustler, then switch to Brine. Add paper as needed to control seepage and add lime to control pH (9- 10). Use high viscosity sweeps to clean hole.
3700' - 8300'	8.4 - 9.9	28 - 29	NC	Brine water. Paper for seepage. Lime for PH (9 - 9.5)
8300' - 11000'	8.45 - 8.9	28 - 29	NC	Cut brine. Caustic for pH control.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.

Application to Drill

Cimarex Energy Co. of Colorado Pipeline B 5 Federal No. 2 Unit K Section 5 T19S-R34E Lea County, NM

12 <u>Testing, Logging and Coring Program:</u>

- A. Mud logging program: Two-man unit from 3000' to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DSTs or cores are planned at this time.

13 Potential Hazards:

No abnormal pressures or temperatures are expected. The area has a potiential H2S hazard. An H2S drilling plan is attached. Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP <u>4000 PSI</u>, estimated BHT <u>175</u>.

14 Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take <u>35 - 45</u> days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The <u>Bone Spring</u> pay will be perforated and stimulated. The well will be tested and potentialed as an oil well.

Hydrogen Sulfide Drilling Operations Plan

Cimarex Energy Co. of Colorado Pipeline B 5 Federal No. 2 Unit K Section 5 T19S-R34E Lea County, NM

- 1 All Company and Contract personnel admitted on location must be trained by a gualified H2S safety instructor to the following:
 - A. Characteristics of H2S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H2S detectors, warning system and briefing
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2 H2S Detection and Alarm Systems
 - A. H2S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
- 3 Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
- 4 Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5 Well control equipment
 - A. See exhibit "E"
- 6 Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foremen's trailers or living quarters.
- 7 Drillstem Testing not anticipated.

Hydrogen Sulfide Drilling Operations Plan

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Cimarex Energy Co. of Colorado Pipeline B 5 Federal No. 2 Unit K Section 5 T19S-R34E Lea County, NM

- 8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H2S scavengers if necessary.



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ORILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE

Exhibit E 1 – Chode Manifold Diagram **Pipeline B 5 Federal No. 2** Cimarex Energy Co. of Colorado 1650' FSL & 1980' FWL K-5-19S-34E Lea County, NM

CONDITIONS OF APPROVAL - DRILLING

Well Name & No.2 - PIPELINE B 5 FEDERALOperator's Name:CIMAREX ENERGY CO. OF COLORADOLocation:1650' FSL & 1980' FWL - SEC 5 - T19S - R34E - LEA COUNTYLease:NM-4314

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

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B. Cementing casing: 13-3/8 inch 9-5/8 inch 5-1/2 inch

C. BOP tests

2 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

1. The <u>13-3/8</u> inch surface casing shall be set at <u>450 feet</u>, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string. <u>Note: Operator has agreed to use the Alternative Conditions of Approval – Drilling for Lea County (attached).</u>

2. The minimum required fill of cement behind the <u>9-5/8</u> inch intermediate casing is <u>circulate cement to the</u> <u>surface</u>.

4. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall extend</u> <u>upward a minimum of 500 feet above the uppermost hydrocarbon bearing interval.</u>

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the <u>9-5/8</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) is 3000 psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- A variance to test the <u>13-3/8 inch surface casing and BOPE</u> to the reduced pressure of <u>1000</u> psi with the rig pumps is approved.

- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Form C-144

March 12, 2004

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No X Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank Covered tank Closure of a pit or below-grade tank Covered tank Closure of a pit or below-grade tank Covered tank Closure of a pit or below-grade tank Covered tank Closure of a pit or below-grade tank Covered tank Closure of a pit or below-grade tank Covered tank Closure of a pit or below-grade tank Covered tank Closure of a pit or below-grade tank Closure

Operator: <u>Clinarex Energy Co. of Colorado</u> Telephon e . 72-443-0489 e-maij address: <u>Zlaris@clinarex.com</u>
Address: P.O. Box 140907, Irving, Tx 75014-0907
Facility or well name: Pipeline B 5 Federal No. 2 API #: 30-025- 390 U/T or Otr/Otr K Sec 5 T19S R34E
County: Lea Latitude 324111.5 N Longitude 1033504.6 W NAD: 1927 🗌 1983 🖾 Surface Owner Federal 🖾 State 🗋 Private 🗋 Indian 🗋

Pit	Below-grade tank	······································	
Type: Drilling 🛛 Production 🗋 Disposal 🗋	Volume:bbl Type of fluid:		
Workover 🗋 Emergency 🗋	Construction material:		
Lined 🔀 Unlined 🗋	Double-walled, with leak detection? Yes 🔲 If not, explain why not.		
Liner type: Synthetic X Thickness <u>12</u> mil Clay Volume <u>12000</u> bbl			
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (10 points)	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes No	(20 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) 0 points	
	Ranking Score (Total Points)	0	

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location:

onsite 🗋 offsite 🗋 If offsite, name of facility______ (3) Attach a general description of remedial action taken including remediation start date and end

date. (4) Groundwater encountered: No 🗌 Yes 🗋 If yes, show depth below ground surface______ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD approved plan . Date: 06-30-06

Printed Name/TitleZeno Farris Manager Operations Administration Signature C Mo & Com

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: Date: Printed Name/Title ETROLEUM ENGINEER Signature 2006 7 AUG 0 1.52