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(July 1992)	UNITED STATES				• • • • •	lebruary 28, 1995
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1a. TYPE OF WORK		DEEPEN			7. UNIT AGREEMENT N	AME
16. TYPE OF WELL OIL		SINGLE				10-00
WELL	WELL OTHER		ZONE		8. FARM OR LEASE NAM	ME, WELL NO. 235841
2. NAME OF OPERATOR Cimarex Energy C	a of Colorado		1	-	Pipeline B 18 Fed	eral No. 7
3. ADDRESS AND TELEPHO			516269	532	9. API WELL NO.	s m , N
	ving TX 75014 972-401-3111			/	30-025- 38	5048
4. LOCATION OF WELL	(Report location clearly and in accordance with	any State requirer	ments.")		10. FIELD AND POOL, O	
					Quail Ridge; Bone	
	1.50				OR AREA	
1980' FNL & 510'	FWL JUNN		Unite		£-18-1	9S-34E
	RECTION FROM NEAREST TOWN OR POST OFFICE	•			12. COUNTY OR PARISH	
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LOCATION TO NEA	REST	IO. NU. UF ACI	red in Lease	TO THIS I		
PROPERTY OR LEAS (Also to nearest drig. unit)	610	1076.4			40	
18. DISTANCE FROM PROP		<u> </u>	19. PROPOSED DEPTH	20.	ROTARY OR CABLE TOOL	LS
TO NEAREST WELL, OR APPLIED FOR, ON	DRILLING COMPLETED, I THIS LEASE, FT.					
	N/A		11000'	R	otary	
23	PROPOSED CAS	ING AND CEI	MENTING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING		HT PER FOOT		TING DEPTH	QUANTITY OF CEMENT
17-1/2"	H-40 13-3/8" ST&C	48#	HT PER FOOT	450'		410 sx Prem circ surf
17-1/2" 12-1/4"	H-40 13-3/8" ST&C J-55 9-5/8" LT&C	48# 40#	HT PER FOOT	450' 3700'		410 sx Prem circ surf
17-1/2"	H-40 13-3/8" ST&C	48#		450'		410 sx Prem circ surf
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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-3622 - SW/4NW/4 18-19S-34E

County: Lea County, New Mexico

Formation (S): **Bone Spring**

Bond Coverage: Statewide BLM Bond

BLM Bond File No.: NM 2575

Authorized Signature:

Zeno Fanis

Representing Cimarex Energy Co. of Colorado

Name: Zeno Farris

Title: Manager, Operations Administration

Date: June 30, 2006

Application to Drill

Cimarex Energy Co. of Colorado Pipeline B 18 Federal No. 7 Unit E Section 18 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: 1980' FNL & 510' FWL 2 Elevation above sea level: GR 3722' Geologic name of surface formation: **Quaternery Alluvium Deposits** 3 Conventional rotary drilling rig using fluid as a circulating Drilling tools and associated equipment: 4 medium for solids removal. Proposed drilling depth: 11000' 5 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 18 Federal No. 7 Unit E Section 18 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>	control Equipme	ent:	one set of t preventer. remote ope below 6000 condition a	A 13 3/8" 5000 PSI working pressure B.O.P. consisting of blind 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 bl. 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

available on the rig floor. BOP unit will be hydraulically operated. BOP will be nippled up on the 9 5/8" casing and will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

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 18 Federal No. 7 Unit E Section 18 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</u> PSI, 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 18 Federal No. 7 Unit E Section 18 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 18 Federal No. 7 Unit E Section 18 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.

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

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1301 W. Grand Avenue, Artesia, NM 88210

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

□ AMENDED REPORT

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Exhibit C







ORILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE

Exhibit E 1 – Chode Manifold Diagram **Pipeline B 18 Federal No. 7** Cimarex Energy Co. of Colorado 1980' FNL & 510' FWL E-18-19S-34E Lea County, NM District 1 1625 N. French Dr., Hobbs, NM 88240 District III 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

State of New Mexico Energy Minerals and Natural Resources

Form C-144 March 12, 2004

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

Pit or Below-Gra Is pit or below-grade tan Type of action: Registration of a pic	Ide Tank Registration or Closur k covered by a "general plan"? Yes ☐ No w below-grade tank ⊠ Closure of a pit or below-grad	E ⊠ de tank □
Operator: Cimarex Energy Co. of Colorado Telephone? Address: P.O. Box 140907, Irving, Tx 75014-0907 Facility or well name: Pipeline B 18 Federal No. 7 Apl #: 30-025 County: Lea Latitude 323943.2 N Longitude 1033	2-443-6489 e-mail address: <u>zfarris@cimarex.c</u> - SBC U/L or Qtr/Qtr <u>E</u> Sec <u>18</u> T19	om SR34E
Pit	Below-grade tank	
Type: Drilling 🛛 Production 🔲 Disposal 🗍	Volume:bbl Type of fluid:	
Workover 🔲 Emergency 🗋	Construction material:	
Lined X Unlined	Double-walled, with leak dctection? Yes 🔲 If not	explain why not.
Liner type: Synthetic X Thickness <u>12</u> mil Clay Volume <u>12000</u> bbl		
Danth to ground unter (norther) distance from bottom of hit to essential bick	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal high	50 feet or more, but less than 100 feet	(10 points)
water elevation of ground water.)	100 feet or more	0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(0 points)
	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	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:

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, a general permit [], or an (attached) alternative OCD-approved plan []. Date: <u>06-30-06</u> Printed Name/TitlZeno Fatris Manager Operations Administration Signature. Zemo Farm

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.

Approfaul 0 7 2006 PETROLEUM ENGINEER Date: Printed Name/Title Sien