OCD-ARTESIA

JAN 05 2009

At 5-09-11 Ex-09-209

Form 3160-3 (April 2004)



OCD-ARTESIA

FORM APPROVED OMB No 1004-0137

				Expires ivi	arch 51, 2007		
UNITED ST	TATES			5. Lease Serial No.			
DEPARTMENT OF T				SHL NM-12128	BHL NN	<i>I</i> I-9787	4
BUREAU OF LAND	6. If Indian, Allotee or	Tribe Name					
APPLICATION FOR PERMIT	TO DRILL OR F	REENTER					
1a. Type of Work: X DRILL RE	ENTER UN	IORTHODO	XC	7. If Unit or CA Agree	ment, Name a	nd No.	
,, <u> </u>		LOCATION		Pending			
	•		•	8. Lease Name and We	ell No.		
1b. Type of Well: X Oil Well Gas Well Other	X Siı	ngle Zone Multipl	le Zone	Conoco 22 Federa	al Com No.	3	
2. Name of Operator				9. API Well No.			
Cimarex Energy Co. of Colorado				30-015-369	<u>_</u> 2) F		
3a Address	3b Phone No	(include area code)		10. Field and Pool, or I	Exploratory		
PO Box 140907; Irving, TX 75014	972-401-31			County Line Tank	Abo		
4. Location of Well (Report location clearly and in accordance	with any State req	nuirements.*)		11. Sec., T R. M. or Blk.	and Survey or A	Area	
At Surface 2380 FSL & 330 FWL R	oswell Cor	ntrolled Water	r Basin				
At proposed prod. Zone 1980 FSL & 330 FEL	Horizontal .	Abo test		22-16S-29E			
14. Distance in miles and direction from nearest town or post of	ffice*			12. County or Parish	13.	State	
				Eddy	1	M	
15 Distance from proposed*	16. No of acres	in lease	17. Spac	ing Unit dedicated to this we	ell .		==
location to nearest property or lease line, ft							
(Also to nearest drig. unit line if	NM-121	28 720 acres					
any) 330'	NM-97874 19. Proposed I.	1491.18 acres	20 BLV	N2S2 160 a VBIA Bond No. on File	cres		
18 Distance from proposed location* to nearest well, drilling, completed,	· .		20, BEN	DDIA Bolla No. oli File			
applied for, on this lease, ft.		Hole 7500'					
N/A	MD 11661'	TVD 7190'	<u> </u>	NM-2575	5		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxima	te date work will start*	*	23. Estimated duration			
3669' GR		12.15.08		25-35	days		
	24. A	ttachments					
The following, completed in accordance with the requirements of	Onshore Oil and C	as Order No. 1, shall b	e attached t	o this form:			
1. Well plat certified by a registered surveyor		4. Bond to cover	the operation	ons unless covered by an exis	ting bond on	file (see	
 A Drilling Plan A Surface Use Plan (if the location is on National Forest System 	m I ands the	Item 20 above 5 Operator Certi					
SUPO shall be filed with the appropriate Forest Service Office		6. Such other site	e specific in	formation and/or plans as ma	y be required	by the	
25 Signature	Nome (B	authorized offi	ıcer		Doto		===
25. Signature		rinted/Typed)			Date	46.55	
Title Octability	Natai	ie Krueger			L	10.03	.08
Regulatory Analyst					i		
Approved By (Signature) /s/ Don Peterson	Name (P	rinted/Typed)			Date	1.0	
,o, Don't cterson		/s/ Don P	<u>eterso</u>	<u>n</u>	DEC	19	2008
FIELD MANAGER	Office	CARLSBAC) FIEL	D OFFICE			
Application approval does not warrant or certify that the applicant holds leg	gal or equitable title t	o those rights in the subje	ect lease which	h would entitle the applicant to	L		
conduct operations thereon. Conditions of approval, if any, are attached.							
Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a cri	ime for any person k	nowingly and willfully to	make to any o	department or agency of the Unit	ed		-





APPROVAL SUBJECT TO **GENERAL REQUIREMENTS** AND SPECIAL STIPULATIONS ATTACHED DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRECT II 1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
36946	97197 🗸	nk; Abo	
Property Code	Prope	rty Name	Well Number
36783	CONOCO "22'	' FEDERAL COM	3
OGRID No.	Opera	tor Name	Elevation
162683	CIMAREX ENERGY	CO. OF COLORADO	3669'

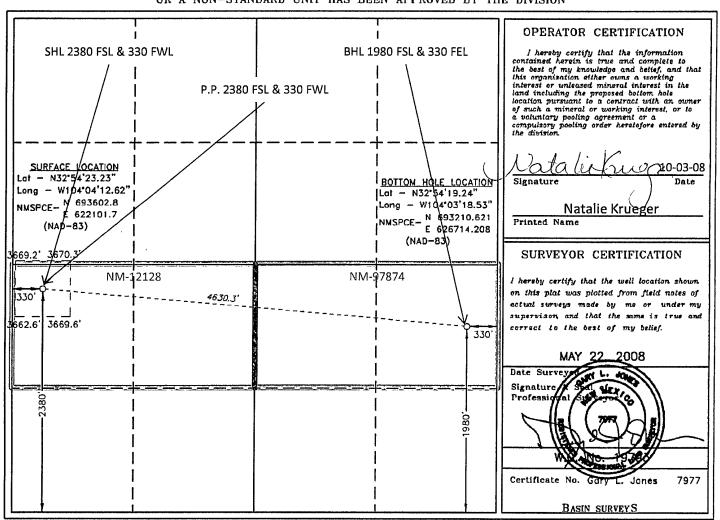
Surface Location

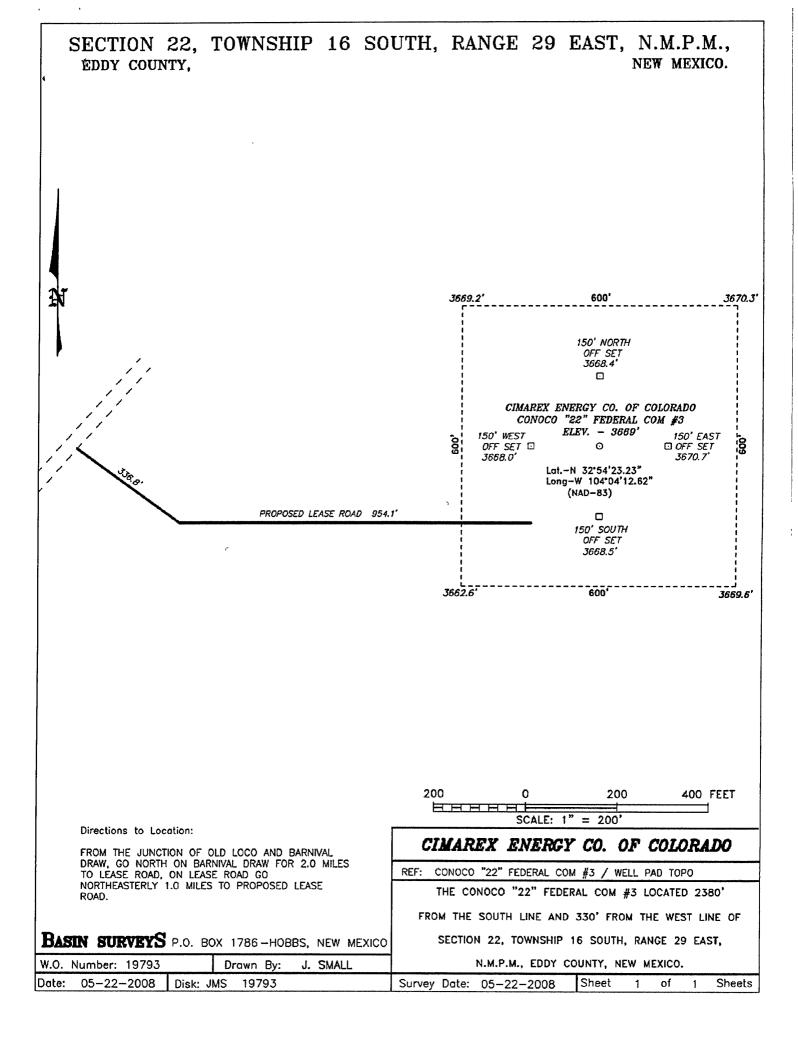
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	- 22	16 S	29 E		2380	SOUTH	330	WEST	EDDY

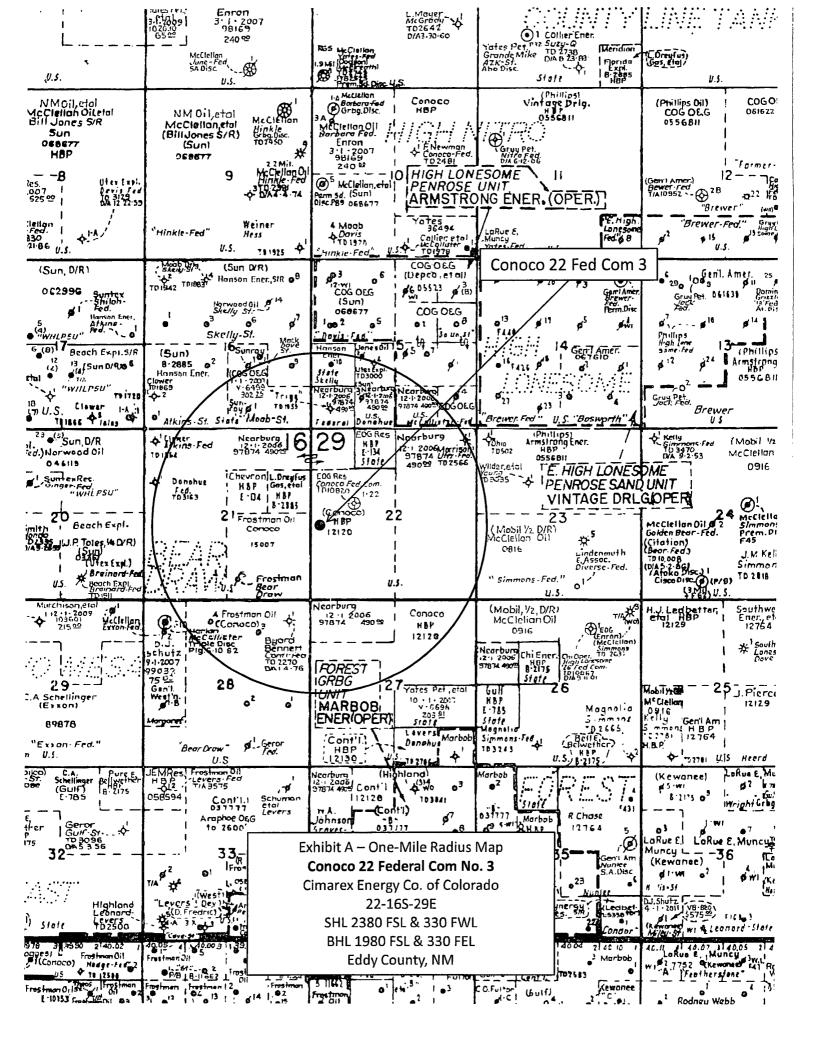
Bottom Hole Location If Different From Surface

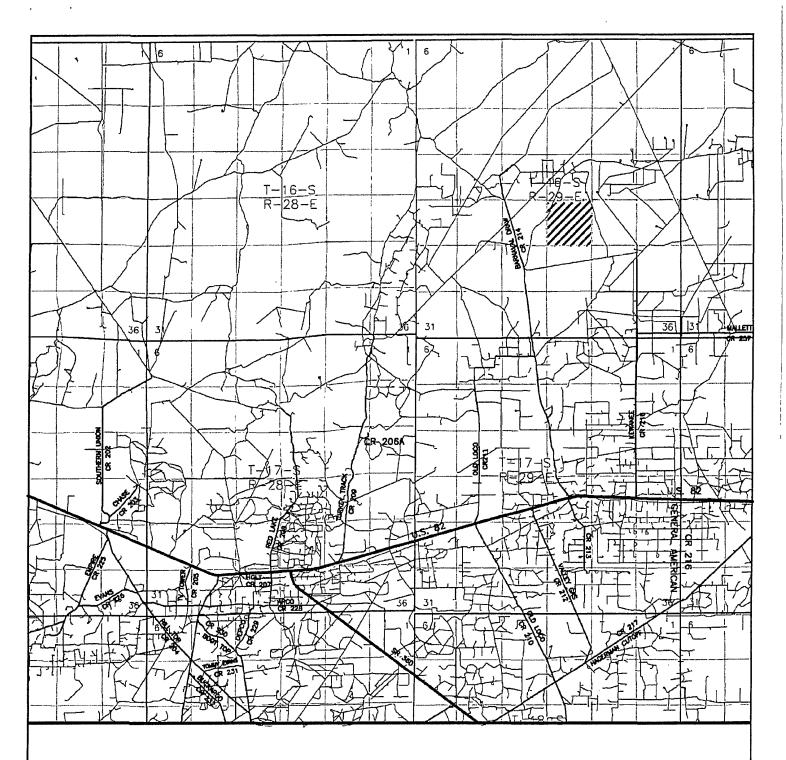
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	22	16 S	29 E		1980	SOUTH	330	EAST	EDDY
Dedicated Acres Joint or Infill Consolidation Code		Code Or	der No.						
160			Р	NS	SL Pending				

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









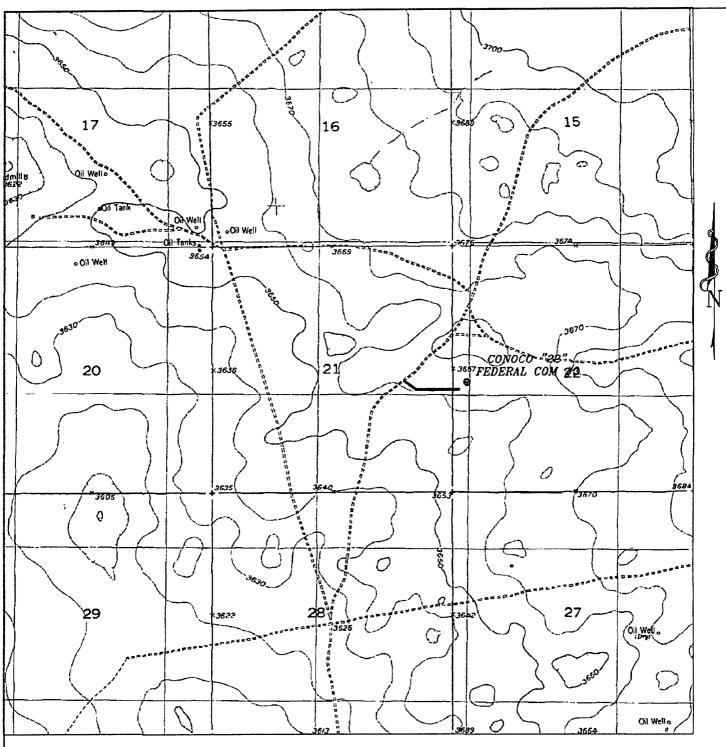
CONOCO "22" FEDERAL COM #3 Located 2380' FSL and 330' FWL Section 22, Township 16 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number: JMS 19793	
Survey Date: 05-22-2008	I I
Scale: 1" = 2 MILES	
Date: 05-22-2008	OF

CIMAREX ENERGY CO. OF COLORADO



CONOCO "22" FEDERAL COM #3 Located 2380' FSL and 330' FWL Section 22, Township 16 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O. Number JMS 19793
Survey Date: 05-22-2008
Scale: 1" = 2000'
Date: 05-22-2008

CIMAREX ENERGY CO. OF COLORADO

Application to Drill

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado Unit L, Section 22

T16S-R29E, Eddy 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:

SHL

2380 FSL & 330 FWL

BHL

1980 FSL & 330 FEL

2. Elevation above sea level:

3,6691 GR

Geologic name of surface formation:

Quaternery Alluvium Deposits

Drilling tools and associated equipment:

Conventional rotary drilling rig using fluid as a circulating medium

for solids removal.

5. Proposed drilling depth: Pilot Hole 7500'

MD 11661'

TVD 7190'

6. Estimated tops of geological markers:

San Andres

1,820'

Abo Shale

5,340'

Lower Abo Dolomite

6,870'

Wolfcamp LS

6,910'

7. Possible mineral bearing formation:

Abo

Oil

8. Proposed Mud Circulating System:

ı		Depth		Mud Wt	Visc	Fluid Loss	Type Mud
!	0'	to	430'	8.4 - 8.6	28	NC	FW
_	430'	to	2650'	10.0	30-32	NC	Brine water
	2650'	to	7500'	8.4 - 9.5	30-32	NC	FW, brine
	KOP 6922'	to	7219'	9.0	28-32	May lose circ	2% KCI
	7219'	to	11661'	9.0	28-32	May lose circ	2% KCI

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Proposed drilling Plan

Drill 8¾" hole to 7500' (pilot hole) and cement (see page 2 - Application to Drill). Set whipstock plug @ 6932.' Mill window from 6917' to 6927.' Kick off 6%" lateral @ 6922.' Drill 6%" hole to MD 11661' and TVD 7190.' Install 4%" Peak Completion Assembly. Liner will be BTC from Liner Hanger @ 6815' to EOC @ 7219' and LTC from EOC @ 7219' to TD @ 11661.' Peak liner will not require cement, but seal will be tested. Lateral length: 4630.' Liner length: 4846.1

Application to Drill

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado

Unit L, Section 22

T16S-R29E, Eddy County, NM

9. Casing & Cementing Program:

String	Hole Size		Depth	1/	Type	Casing OD	Casing ID	Weight	Grade	Thread	Collar
Surface	17½"	0	to	430'	New	13¾"	12.715#	48#	H-40	8-R	STC
Intermediate	12¼"	0	to	2,650'	New	95/8"	8.835#	40#	J-55	8-R	LTC
Pilot Hole	8¾"	0	to	7,500'	New	7"	6.276#	26#	P-110	8-R	LTC
Lateral (liner hgr to EOC)	61/8"	6,815'	to	7,219'	New	4½"	4"	11.6#	P-110	8-R	втс
Lateral (EOC to TD)	61/s"	7,219'	to	11,661'	New	4½"	4"	11.6#	P-110	8-R	LTC

10. Cementing:

SPECOA Surface

Lead: 300 sx Thixotropic/Premium Plus + 10# Gilsonite + 10# Cal-Seal + 1% CaCl₂ + 0.125# Poly-e-flake (wt 14.2, yld 1.64)

Tail: 220 sk Premium Plus + 2% CaCl₂ (wt 14.8, yld 1.35)

TOC Surface

Intermediate Lead: 415 sx Interfill C + 0.125# Poly-e-flake (wt 11.9, yld 2.45)

Tail: 215 sx Premium Plus + 1% CaCl₂ (wt 14.8, yld 1.33)

TOC Surface

Pilot Hole

Lead: 550 sx Interfill H SBM + 0.1% HR-7 + 1# Pheno-seal (wt 11.5, yld 2.77)

Tail: 475 sx Permian Basin Super H SBM + 0.5% Halad-344 + 0.25% D-AIR 3000 + 0.4% CFR-3 w/o defoamer + 1# Salt +

3# Pheno-seal + 0.35% HR-7 (wt 13.2, yld 1.62)

TOC 2450'

Lateral

No cement needed. Peak completion assembly.

Fresh water zones will be protected by setting 13%" casing at 430' and cementing to surface. Hydrocarbon zones will be protected by setting 9%" casing at 2650' and cementing to surface, and by setting 7" casing at 7500' and cementing to 2450.'

ollapse Facti	Burst Factor	Tension Factor
1.125	1.125	1.6

11. Pressure control Equipment:

Exhibit "E". A 13%" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000.' A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nippled up and 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. From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 psi BOP system.

We are requesting a variance for testing the 13%" surface casing from Onshore Order No. 2, which states that all casing strings below the conductor shall be pressure tested to 0.22 psi per foot or 1500 psi, whichever is greater, but not to exceed 70% of the manufacturer's stated maximum internal yield. We are requesting to test the 13%" casing to 1000 psi using rig pumps. The BOP will be tested to 3000 psi by an independent service company.

Application to Drill

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado

Unit L, Section 22

T16S-R29E, Eddy County, NM

12. Testing, Logging and Coring Program:

A. Mud logging program: 2 m

2 man unit from 2650' 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. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H₂S from the surface to the Strawn formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." 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

2300 psi

Estimated BHT

110°

tpo roon

14. Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take 25-35 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.

Abo pay will be perforated and stimulated.

The proposed well will be tested and potentialed as

an oil well.

Patterson Rig 80

Cimarex Energy Co. of Colorado

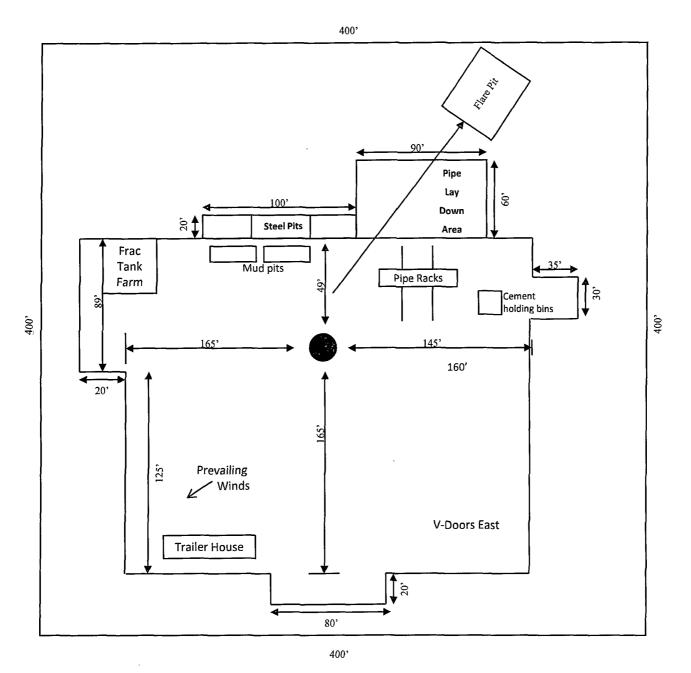


Exhibit D – Rig Layout

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado
22-16S-29E

SHL 2380 FSL & 330 FWL

BHL 1980 FSL & 330 FEL

Eddy County, NM

SHL 2380 FSL & 330 FWL BHL 1980 FSL & 330 FEL Eddy County, NM

ORILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE

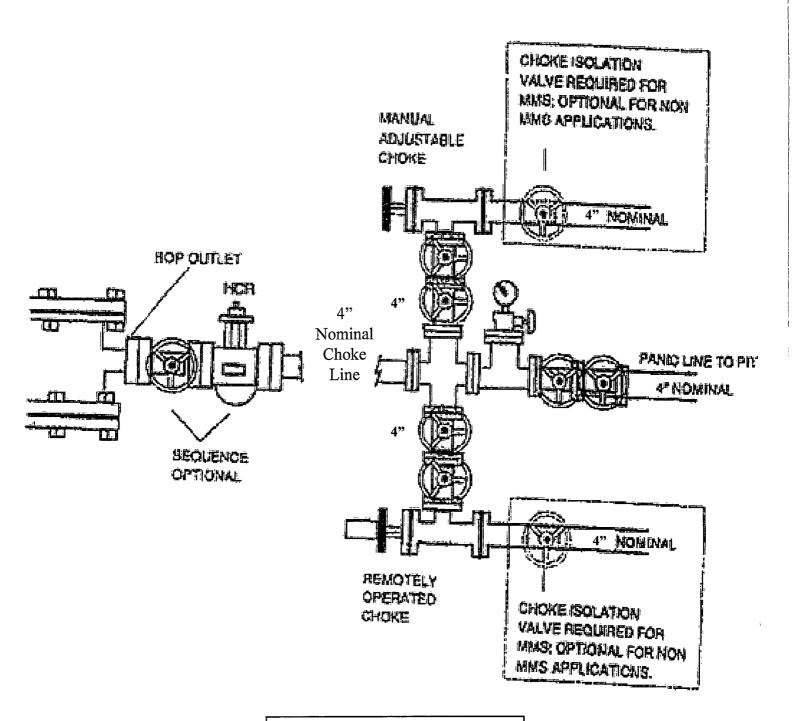


Exhibit E-1 — Choke Manifold Diagram

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado
22-16S-29E

SHL 2380 FSL & 330 FWL

BHL 1980 FSL & 330 FEL

Eddy County, NM



Planned Wellpath Report Preliminary Page 1 of 4

BAKER HUGHES **INTEQ**

REFER	ENCE WELLPATH IDENTIFICATION		
Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Conoco)Sec. 22 T16S R29E	Wellbore	No. 3H PWB
Facility	Conoco 22 Fed Com No. 3H		

REPORT SETUP	INFORMATION		
Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999917	Report Generated	8/4/2008 at 3:11:49 PM
Convergence at slot	0.14° East	Database/Source file	WA_Midland/No3H_PWB.xml

WELLPATH LOCATION												
	Local coo	Local coordinates Grid coordinates			Geographi	Geographic coordinates						
	North[ft] East[ft]			Northing[USft]	Latitude	Longitude						
Slot Location	0.00	0.00	622101.70	693602.80	32°54'23.232"N	104°04'12.620"W						
Facility Reference Pt			622101.70	693602.80	32°54'23.232"N	104°04'12.620"W						
Field Reference Pt			626718.00	691891.00	32°54'06.177"N	104°03'18.523"W						

WELLPATH DATUM		2000年1月2日 (1990年) 1990年1月2日 (1990年) 1990年1月2日 (1990年) 1990年1月2日 (1990年) 1990年1月2日 (1990年) 1990年1月2日 (1990年) 19	
Calculation method	Minimum curvature	Rig on No. 3H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 3H SHL (RT) to Mean Sea Level	3687.00ft
Vertical Reference Pt	Rig on No. 3H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 3H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	94.86°



Planned Wellpath Report Preliminary Page 2 of 4

BAKER HUGHES **INTEQ**

REFER	ENCE WELLPATH IDENTIFICATION		
Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Conoco)Sec. 22 T16S R29E	Wellbore	No. 3H PWB
Facility	Conoco 22 Fed Com No. 3H		

WELLPATH D	OATA (51 statio	ns) † = inter	rpolated/extra	polated statio	n			
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	94.860	0.00	0.00	0.00	0.00	0.00	Tie On
6922.00	0.000	94.860	6922.00	0.00	0.00	0.00	0.00	EST. KOP
7022.00†	30.000	94.860	7017.49	25.59	-2.17	25.50	30.00	
7122.00†	60.000	94.860	7087.40	95.49	-8.09	95.15	30.00	
7218:69	89:006	94.860	71112!96	1.87/67	-15.90	187.00	30.00	EOC
7222.00†	89.006	94.860	7113.01	190.99	-16.18	190.30	0.00	
7322.00†	89.006	94.860	7114.75	290.97	-24.65	289.92	0.00	
7422.00†	89.006	94.860	7116.48	390.96	-33.12	389.55	0.00	
7522.00†	89.006	94.860	7118.22	490.94	-41.59	489.18	0.00	
7622.00#	789,006	94.860	7119.95	590!93	-50:06	588/80	(0.00)	
7722.00†	89.006	94.860	7121.69	690.91	-58.53	688.43	0.00	
7822.00†	89.006	94.860	7123.42	790.90	-67.00	788.05	0.00	
7922.00†	89.006	94.860	7125.15	890.88	-75.47	887.68	0.00	
8022.00†	89.006	94.860	7126.89	990.87	-83.95	987.30	0.00	
8122.00計	89!006	94.860	7/1/28/62	1090:85	92.42	1086!93	(00.00)	
8222.00†	89.006	94.860	7130.36	1190.84	-100.89	1186.55	0.00	
8322.00†	89.006	94.860	7132.09	1290.82	-109.36	1286.18	0.00	
8422.00†	89.006	94.860	7133.83	1390.81	-117.83	1385.80	0.00	
8522.00†	89.006	94.860	7135.56	1490.79	-126.30	1485.43	0.00	
trong to consumery of married and are an area of court and at the	- 89.006		7,137,29	1590.78	134:77/	1585 06	(0.00)	
8722.00†	89.006	94.860	7139.03	1690.76	-143.24	1684.68	0.00	
8822.00†	89.006	94.860	7140.76	1790.74	-151.71	1784.31	0.00	
8922.00†	89.006	94.860	7142.50	1890.73	-160.18	1883.93	0.00	
9022.00†	89.006	94.860	7144.23	1990.71	-168.65	1983.56	0.00	
9122:00世	89!006	94:860	7/145!96	2090.70	-177/12	2083.18	00:00	1.1 (4.9) 11 11 11
9222.00†	89.006	94.860	7147.70	2190.68	-185.59	2182.81	0.00	
9322.00†	89.006	94.860	7149.43	2290.67	-194.06	2282.43	0.00	
9422.00†	89.006	94.860	7151.17	2390.65	-202.53	2382.06	0.00	
9522.00†	89.006	94.860	7152.90	2490.64	-211.01	2481.69	0.00	
9622.00	89.006	94.860	7/154:64	2590:62	-219:48	2581:31	(0.00)	



Planned Wellpath Report Preliminary Page 3 of 4

BAKER HUGHES **INTEQ**

REFER	ENCE WELLPATH IDENTIFICATION		
Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Conoco)Sec. 22 T16S R29E	Wellbore	No. 3H PWB
Facility	Conoco 22 Fed Com No. 3H		

WELLPATH D	WELLPATH DATA (51 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments			
9722.00†	89.006	94.860	7156.37	2690.61	-227.95	2680.94	0.00				
9822.00†	89.006	94.860	7158.10	2790.59	-236.42	2780.56	0.00				
9922.00†	89.006	94.860	7159.84	2890.58	-244.89	2880.19	0.00				
10022.00†	89.006	94.860	7161.57	2990.56	-253.36	2979.81	0.00				
10122.00†	89!006	94:860	7/1/63:31	3090.55	-261.83	3079:44	(0:00)				
10222.00†	89.006	94.860	7165.04	3190.53	-270.30	3179.06	0.00				
10322.00†	89.006	94.860	7166.78	3290.52	-278.77	3278.69	0.00				
10422.00†	89.006	94.860	7168.51	3390.50	-287.24	3378.31	0.00				
10522.00†	89.006	94.860	7170.24	3490.49	-295.71	3477.94	0.00	_			
J10622:00†	89!006	94.860	7171.98	3590:47/	-304:18	3 <i>577/57</i> /	(00:00)				
10722.00†	89.006	94.860	7173.71	3690.46	-312.65	3677.19	0.00				
10822.00†	89.006	94.860	7175.45	3790.44	-321.12	3776.82	0.00				
10922.00†	89.006	94.860	7177.18	3890.43	-329.59	3876.44	0.00				
11022.00†	89.006	94.860	7178.91	3990.41	-338.07	3976.07	0.00				
111221001	.89:006	94.860	7/180:65	4090.40	-346.54	4075:69	0.00				
11222.00†	89.006	94.860	7182.38	4190.38	-355.01	4175.32	0.00				
11322.00†	89.006	94.860	7184.12	4290.37	-363.48	4274.94	0.00				
11422.00†	89.006	94.860	7185.85	4390.35	-371.95	4374.57	0.00				
11522.00†	89.006	94.860	7187.59	4490.34	-380.42	4474.20	0.00				
加622900計	89!006	94.860	7/189:32	4590!32	\-388 ⁸ 89	4573.82	(0:00)	The state of the s			
11661.23	89.006	94.860	7190:00 ¹	4629.55	-392.21	4612.90	0.00	No. 3H BHL			



Planned Wellpath Report Preliminary Page 4 of 4



REFER	ENCE WELLPATH IDENTIFICATION		
Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Conoco)Sec. 22 T16S R29E	Wellbore	No. 3H PWB
Facility	Conoco 22 Fed Com No. 3H		

TARGETS							-		
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 3H BHL	11661.23	7190.00	-392.21	4612.90	626714.21	693210.62	32°54'19.235"N	104°03'18.527"W	point

SURVEY PRO	SURVEY PROGRAM Ref Wellbore: No. 3H PWB Ref Wellpath: Preliminary						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore			
18.00	11661.23	NaviTrak (Standard)		No. 3H PWB			



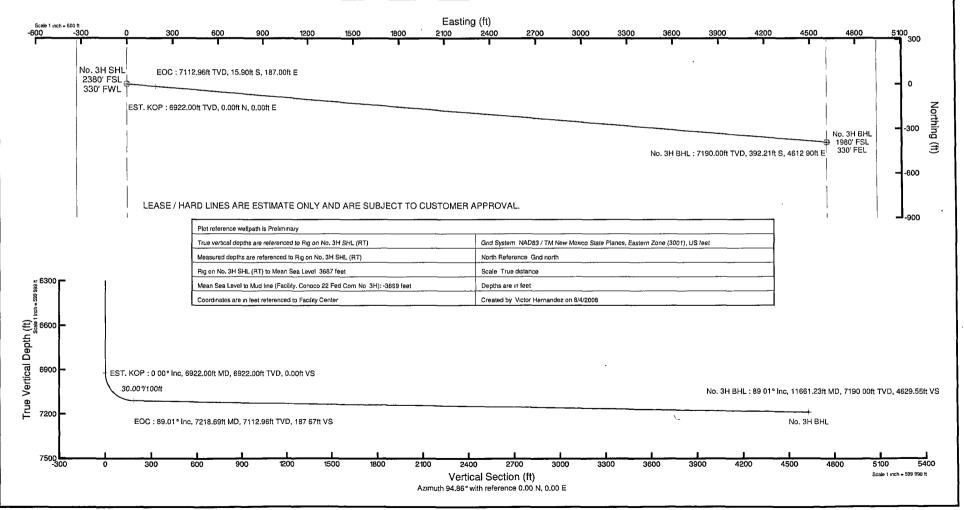
Cimarex Energy Co. of Colorado



Location: Eddy County, NM Field: (Conoco)Sec. 22 T16S R29E Facility: Conoco 22 Fed Com No. 3H

Well: No. 3H Wellbore: No. 3H PWB

	Well Profile Data										
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%100ft)	VS (ft)			
Tie On	0.00	0.000	94.860	0.00	0.00	0.00	0.00	0.00			
EST. KOP	6922.00	0.000	94.860	6922.00	0.00	0.00	0.00	0.00			
EOC	7218.69	89.006	94.860	7112.96	-15.90	187.00	30.00	187.67			
No. 3H BHL	11661.23	89.006	94.860	7190.00	-392,21	4612.90	0.00	4629.55			



Hydrogen Sulfide Drilling Operations Plan

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado Unit L, Section 22

T16S-R29E, Eddy County, NM

- 1 All Company and Contract personnel admitted on location must be trained by a qualified 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 areas.
 - 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 indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates 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 foreman's trailer or living quarters.

7 Drillstem Testing:

No DSTs or cores are planned at this time.

- 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.

H₂S Contingency Plan
Conoco 22 Federal Com No. 3
Cimarex Energy Co. of Colorado
Unit L, Section 22
T16S-R29E, Eddy County, NM

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- ★ Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- ★ Evacuate any public places encompassed by the 100 ppm ROE.
- **★** Be equipped with H₂S monitors and air packs in order to control the release.
- ★ Use the "buddy system" to ensure no injuries occur during the response.
- ★ Take precautions to avoid personal injury during this operation.
- ★ Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- ★ Have received training in the:
 - ♦ Detection of H₂S, and
 - ♦ Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Common	Chemical	Specific	Threshold		Lethal
Name	Formula	Gravity	Limit_	Hazardous Limit	Concentration
Hydrogen Sulfide	H₂S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado Unit L, Section 22 T16S-R29E, Eddy County, NM

Company Office

Cimarex Energy Co. of Colorado Co. Office and After-Hours Menu 800-969-4789

Kev Personne	Kev	Pe	rso	nn	e
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Name	Title	Office	Mobile
Doug Park	Drilling Manager	972-443-6463	972-333-1407
Dee Smith	Drilling Super	972-443-6491	972-882-1010
Jim Evans	Drilling Super	972-443-6451	972-465-6564
Dorsey Rogers	Field Super		575-200-6105
Roy Shirley	Field Super		432-634-2136

Artesia				
Ambulance	911			
State Police	575-746-2703			
City Police	575-746-2703			
Sheriff's Office	575-746-9888			
Fire Department	575-746-2701			
Local Emergency Planning Committee	575-746-2122			
New Mexico Oil Conservation Division	575-748-1283			

/Carlsbad					
Ambulance	911				
State Police	575-885-3137				
City Police	575-885-2111				
Sheriff's Office	575-887-7551				
Fire Department	575-887-3798				
Local Emergency Planning Committee	575-887-6544				
US Bureau of Land Management	575-887-6544				

<u>Santa Fe</u>	4 CCC 4 CCC 16 NCC 14 CCC 16 NCC 17 CCC 17 C
New Mexico Emergency Response Commission (Santa Fe)	505-476-9600
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635

<u>National</u>		
National Emergency Response Center (Washington, D.C.)	800-424-8802	

Medical	
Flight for Life - 4000 24th St.; Lubbock, TX	806-743-9911
Aerocare - R3, Box 49F; Lubbock, TX	806-747-8923
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949

Other	90 P 1603 B 1666 B 1600 B	W. W. J.	THE REAL PROPERTY AND ASSESSED TO SELECT ASSESSED THE PARTY ASSESSED TO SELECT ASSESSED T
Boots & Coots IWC	800-256-9688	or	281-931-8884
Cudd Pressure Control	432-699-0139	or	432-563-3356
Halliburton	575-746-2757		
B.J. Services	575-746-3569		

Surface Use Plan

Conoco 22 Federal Com No. 3

Cimarex Energy Co. of Colorado Unit L, Section 22 T16S-R29E, Eddy County, NM

1. Existing Roads: Area maps, Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be

specifications.

- A. Exhibit "A" shows the proposed well site as staked.
- B. From the junction of Old Loco and Barnival Draw, go North on Barnival Draw for 2.0 miles to lease road. On lease road, go Northeasterly for 1.0 miles to proposed lease road.

maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM

2. <u>Planned Access Roads:</u> 1290.9' of new access road is proposed. The portion of the road in 21-16S-29E is off-lease and will require a BLM ROW.

3. Location of Existing Wells in a One-Mile Radius - Exhibit A

A. Water wells -

None known

B. Disposal wells -

None known

C. Drilling wells -

None known

D. Producing wells -

As shown on Exhibit "A"

E. Abandoned wells -

As shown on Exhibit "A"

- 4. If on completion this well is a producer, Cimarex Energy Co. of Colorado will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied by a Sundry Notice.
- 5. Location and Type of Water Supply:

Water will be purchased locally from a commercial source and trucked over the access roads or piped in flexible lines laid on top of the ground.

6. Source of Construction Material:

If possible, construction will be obtained from the excavation of drill site. If additional material is needed, it will be purchased from a local source and transported over the access route as shown on Exhibit "C".

7. Methods of Handling Waste Material:

- A. Drill cuttings will be seperated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state-approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Drilling fluids will be contained in steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

Surface Use Plan Conoco 22 Federal Com No. 3 Cimarex Energy Co. of Colorado Unit L, Section 22 T16S-R29E, Eddy County, NM

8. Ancillary Facilities:

A. No camps or airstrips to be constructed.

9. Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- C. Mud pits in the closed circulating system will be steel pits and the cuttings will be stored in steel containment pits.
- D. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- E. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. Plans for Restoration of Surface:

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recountoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

11. Other Information

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak
- B. The wellsite is on surface owned by the Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. In lieu of performing an archaeological survey, Cimarex will use the Carlsbad Area Memorandum of Agreement and will use the site location information to plan projects to avoid known eligible archaeological sites by at least 100 feet. In this regard, per the MOA, Cimarex will make the appropriate contribution to the Permian Basin Cultural Resource mitigation fund.
- D. There are no know dwellings within 1½ miles of this location.

Operator Certification Statement
Conoco 22 Federal Com No. 3
Cimarex Energy Co. of Colorado
Unit L, Section 22
T16S-R29E, Eddy County, NM

Operator's Representative
Cimarex Energy Co. of Colorado
P.O. Box 140907
Irving, TX 75014
Office Phone: (972) 443-6489

Zeno Farris

CERTIFICATION: I hereby certify that the statements and plans made in this APD are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Cimarex Energy Co. of Colorado and/or its contractors/subcontractors and is in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

NAME:	Vatali Kruege
	Nataliè Krueger Vataliè Krueger
DATE:	October 3, 2008
TITLE:	Regulatory Analyst

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Cimarex Energy Co. of Colorado
LEASE NO.: NM97874
WELL NAME & NO.: Conoco 22 Federal Com #3
SURFACE HOLE FOOTAGE: 2380' FSL & 330' FWL
BOTTOM HOLE FOOTAGE 1980' FSL & 330' FEL
LOCATION: Section 22, T. 16 S., R 29 E., NMPM
COUNTY: Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Berming
◯ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
⊠ Road Section Diagram
☑ Drilling
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
☐ Closed Loop System/Interim Reclamation
Final Abandanas A/Dadamatian

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

The well pad and any collection facilities that are needed will be bermed to contain/control any spills or leaks on pad.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. Closed Loop System Conoco 22 Federal Com. # 3: Closed Loop System V-Door East

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MÁTERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

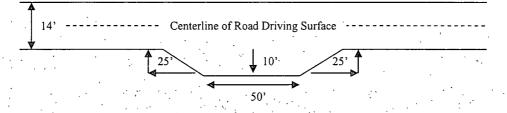
Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

Standard Turnout - Plan View

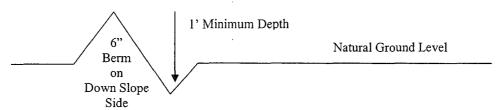


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces

Fence Requirement

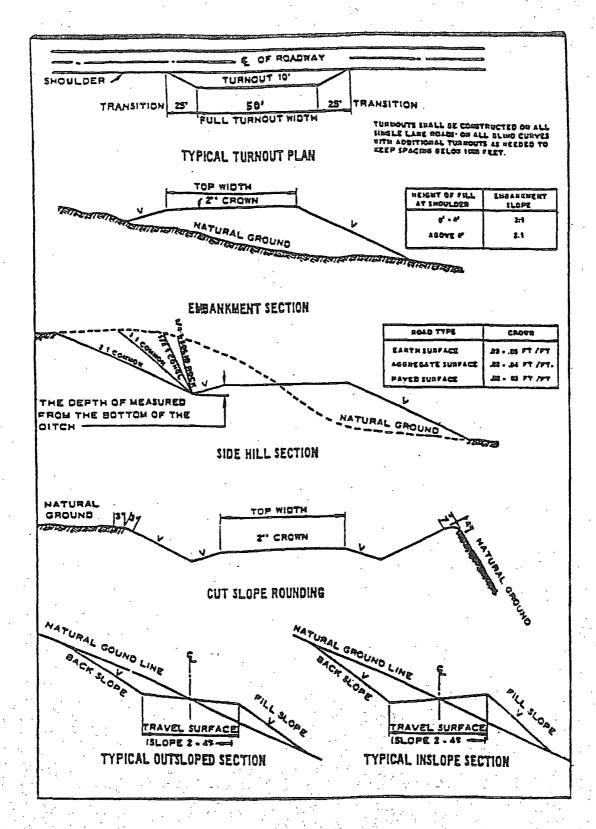
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 - Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a possible hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 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. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible lost circulation in the Grayburg and San Andres formations.

Possible high pressure gas bursts from the Wolfcamp formation – applicable to pilot hole.

- 1. The 13-3/8 inch surface casing shall be set at approximately 430 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is penetrated, set casing 25' above the salt. There is a structural high in this area and the Rustler could be as shallow as 80 feet.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, a remedial cementing will be done prior to drilling out that string.

Brine mud to be used below surface casing to drill 12-1/4" hole.

2.	The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
	⊠ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3.	The minimum required fill of cement behind the 7 inch production casing is:
,	
	Cement should tie-back at least 200 feet into previous casing string. Operator
	shall provide method of verification.

Tag cement at bottom of pilot hole and report on subsequent report. NOTE: Pilot hole will require proper plug when well is plugged.

Formation below the kick off point to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the 4-1/2 inch production liner is:

\boxtimes	Not rea	mired a	as operator	is ı	ising	Peak	comn	letion	assembl	v
$\nabla \mathbf{N}$	1100100	lanca a	is operator	10 0	ADILLES.	Louis	COMP	TOUGH	assenioi	J

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

WWI 110608

VIII. PRODUCTION (POST DRILLING).

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

- B. PIPELINES
- C. ELECTRIC LINES

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

The operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

BLM SERIAL #: COMPANY REFERENCE: WELL # & NAME:

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The see mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus) Sand love grass (Eragrostis trichodes) Plains bristlegrass (Setaria macrostachya)	1.0 1.0 2.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.