

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

ATS-07-618

09 2007

Form 3160-3
(April 2004)



OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a Type of Work ☐ DRILL ☒ REENTER		5 Lease Serial No BHL39787474 NM-012128 S#L
1b Type of Well. ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2 Name of Operator Cimarex Energy Co. of Colorado 162683		7 If Unit or CA Agreement, Name and No Pending
3a Address PO Box 140907 Irving, TX 75014		8 Lease Name and Well No 36783 Conoco 22 Federal Com No. 1
3b Phone No (include area code) 972-401-3111		9 API Well No 31457 30-015-
4 Location of Well (Report location clearly and in accordance with any State requirements *) At Surface 2307 FNL & 1427' FWL At proposed prod Zone 2303 per operator 8/15/07 1980' FNL & 330' FEL		10 Field and Pool, or Exploratory Country Line Tank, Abo
14. Distance in miles and direction from nearest town or post office* 4 miles West of Loco Hills		11 Sec, T R M. or Blk and Survey or Area 22-16S-29E
15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 107'		12 County or Parish Eddy
16 No of acres in lease 1491.18 BHL 720 SHL		13 State NM
17. Spacing Unit dedicated to this well S2NE4, SE4NW4 120		
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft N/A		20. BLM/BIA Bond No on File NM-2575
19. Proposed Depth 10526 MD, 7255 TVD		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3667' GR		22 Approximate date work will start* 10/1/2007
		23 Estimated duration 20-25 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) |
| 2. A Drilling Plan | 5. Operator Certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer |

25 Signature Zeno Farris	Name (Printed/Typed) Zeno Farris	Date 08.07.07
Title Manager Operations Administration		
Approved By (Signature) /s/ James Stovall	Name (Printed/Typed) /s/ James Stovall	Date OCT 04 2007
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Conditions of approval, if any, are attached

APPROVAL FOR TWO YEARS

Title 18 U.S.S Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

* (Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Roswell Controlled Water Basin

NSL - Required to
produce

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED



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 East Greene Street
Carlsbad, NM 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:

<u>Lease No.:</u>	NM- 0 12128	SE4NW4	22-16S-29E	40 acres
	NM-097874	S2NE4	22-16S-29E	80 acres

County: Eddy County, NM

Formation(s): Abo

Bond Coverage: Statewide BLM Bond

BLM Bond File No.: NM-2575

Authorized Signature:

Zeno Farris
Representing Cimarex Energy Co. of Colorado

Name: Zeno Farris

Title: Manager Operations Administration

Date: August 7, 2007

DISTRICT I
1626 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 86210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 9-7197	Pool Name County Line Tank; Abo (Oil)
Property Code	Property Name CONOCO "22" FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3667'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	22	16 S	29 E		2303	NORTH	1427	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
H	22	16 S	29 E		1980	NORTH	330	EAST	EDDY

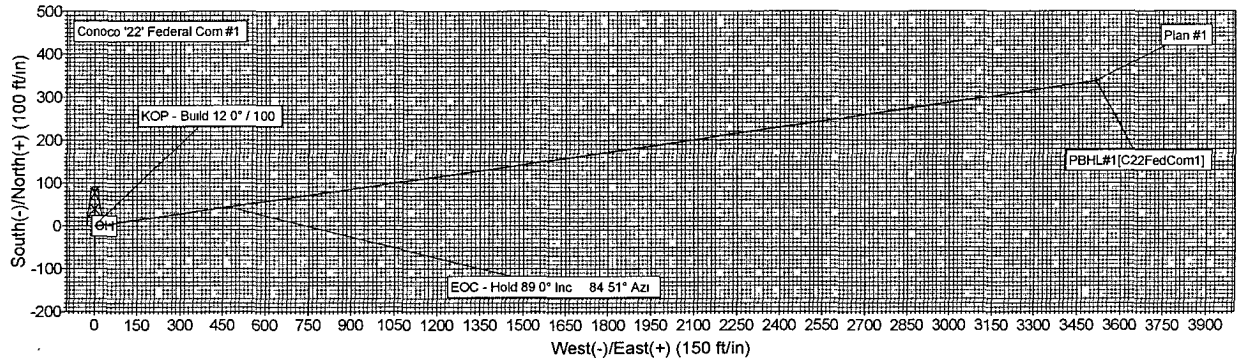
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
120		P	NSL Pending

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

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Zeno Farris 08-30-07 Signature Date Zeno Farris Printed Name
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. AUGUST 1, 2007 Date Surveyed Gary L. Jones Signature & Seal Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS



Project Eddy Co., New Mexico
 Site Conoco '22' Federal Com #1
 Well Conoco '22' Federal Com #1
 Wellbore Lateral #1
 Plan Plan #1 (Conoco '22' Federal Com #1/Lateral #1)



ANNOTATIONS

TVD	MD	Annotation
6723.82	6723.82	KOP - Build 12 0° / 100
7201.21	7465.48	EOC - Hold 89 0° Inc 84 51° Azi

PROJECT DETAILS Eddy Co., New Mexico

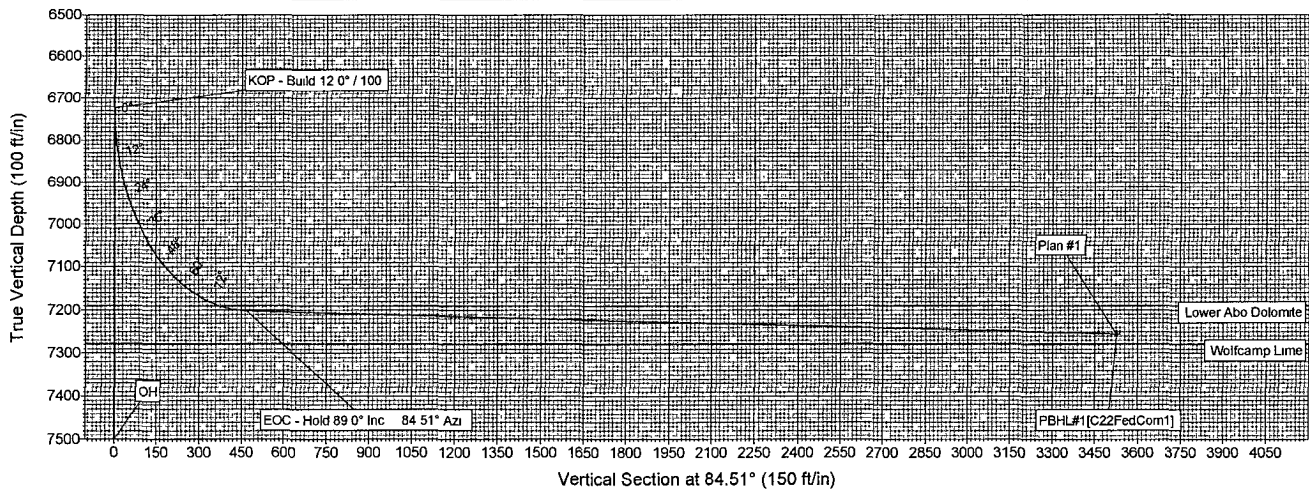
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Ground Level



Azimuths to Grid North
 True North -0 14°
 Magnetic North 6 17°
 Magnetic Field
 Strength: 49352 nT
 Dip Angle: 60 84°
 Date: 8/6/2007
 Model: IGRF200510

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	6723.00	0.00	0.00	6723.00	0.00	0.00	0.00	0.00	0.00	
2	6723.82	0.00	0.00	6723.82	0.00	0.00	0.00	0.00	0.00	
3	7465.48	89.00	84.51	7201.21	44.89	466.98	12.00	84.51	469.13	
4	10525.85	89.00	84.51	7254.62	337.65	3512.84	0.00	0.00	3529.03	PBHL#1(C22FedCom1)



Plan Plan #1 (Conoco '22' Federal Com #1/Lateral #1)
 Created By: LD Burton Date: August 6, 2007

Application to Drill
Cimarex Energy Co. of Colorado
Conoco 22 Federal Com No. 1
Unit F 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: ²³⁰³ SHL ~~2307~~' FNL & 1427' FWL
 BHL 1980' FNL & 330' FEL

- 2 Elevation above sea level: 3667' GR

- 3 Geologic name of surface formation: Quaternary 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: 10526 MD, 7255 TVD

- 6 Estimated tops of geological markers:

Queen	1710'
San Andres	2480'
Abo	5946'
Abo Shale	5958'
Lower Abo Dolomite	7190'
Wolfcamp Lime	7278'
Atoka	9978'
Mississippian	10433'

- 7 Possible mineral bearing formation:

Abo	Oil
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- 8 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0 to 2,690	8.4 - 9.0	28-29	NC	Fresh water and brine to drill out plugs to 7190'.
2,690 to 10526 MD	8.4 - 9.7	28-29	NC	Fresh water and brine, use hi-vis sweeps to keep hole clean.

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. 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.

8a. Proposed drilling Plan

Well is currently PA. Clean out to cement plug #3 at 7190' using fresh water and brine. Kick off horizontal leg at 6730' and drill 7-7/8" hole to 10526' MD, 7255' TVD. Run 5-1/2" 17# P-110 LTC casing and cement as shown on page 2, production casing details.

per operator 8/20/07
MMO

Application to Drill
Cimarex Energy Co. of Colorado
Conoco 22 Federal Com No. 1
Unit F Section 22
T16S R29E Eddy County, NM

9 Casing & Cementing Program:

Hole Size	Depth	Casing OD	Weight	Thread	Collar	Grade	
17-1/2	0 to 432	New 13-3/8	48#	8-R	STC	H-40	(Previously Set)
11	0 to 2690	New 8-5/8	24#	8-R	LTC	J-55	(Previously Set)
7-7/8	0 to 10526 MD	New 5-1/2	17#	8-R	LTC	N-80	

10 Cementing & Setting Depth:

13-3/8 Surface Set 432 of 13-3/8 48# H-40 STC
Already set and cemented

TOC Surface

8-5/8 Intermediate Set 2690 of 8-5/8 24# J-55 LTC
Already set and cemented

TOC Surface

5-1/2 Production Set 10526 MD of 5-1/2 17# N-80 LTC

Lead: 650 sx Interfill H + 0.125# Poly-E-Flake (wt 11.5, yld 2.76)

Tail: 600 sx Super H + 0.5% Halad + 0.4% CFR-3 + 1# Salt + 5# Gilsontite + 0.125# Poly-E + 0.35% HR-7 (wt 13.0, yld 1.68)

TOC 3,775 *see COA*

Hydrocarbon zones will be protected by setting 5-1/2 casing at 10526 MD and cementing to 3775 .

Cimarex uses the following minimum safety factors:

Burst	Collapse	Tension
1.125	1.125	1.80

11 Pressure control Equipment:

Exhibit "E". A 13 3/8" 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 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.

The BOP will be tested to 5000 PSI by an independent service company.

Application to Drill
Cimarex Energy Co. of Colorado
Conoco 22 Federal Com No. 1
Unit F Section 22
T16S R29E Eddy County, NM

12 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from KOP 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 potential 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 **4000 psi**

Estimated BHT **175**

- 14 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.
Drilling expected to take 20-25 days

15 Other Facets of Operations:

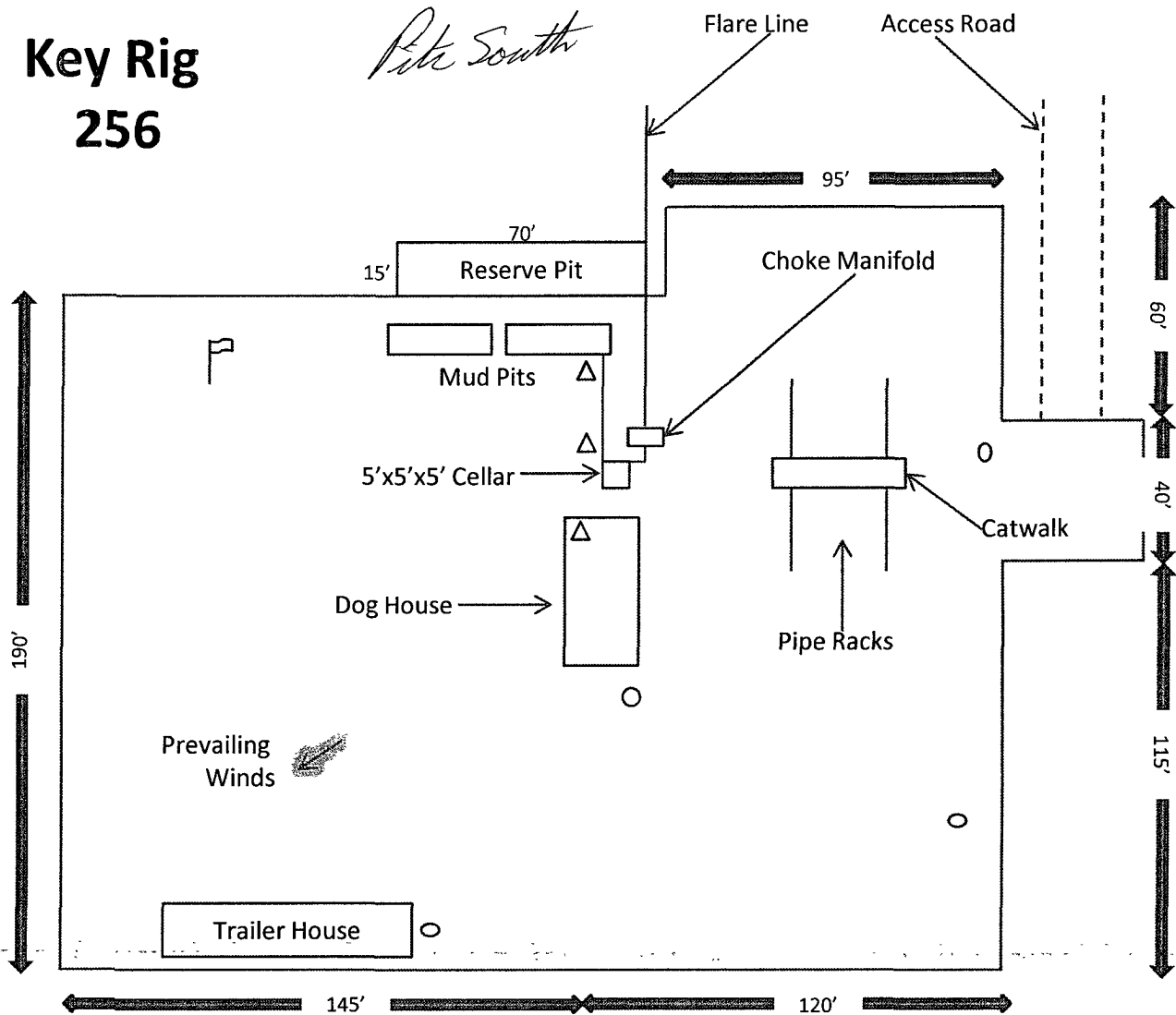
After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.

Abo pay will be perforated and stimulated.

The proposed well will be tested and potential as **an oil well**

Key Rig 256

Rite South



- Wind Direction Indicators
(wind sock or streamers)
- △ H2S Monitors
(alarms at bell nipple and shale shaker)
- Briefing Areas
- Remote BOP Closing Unit

Exhibit D – Rig Layout
Conoco 22 Federal Com No. 1 Re-entry
 Cimarex Energy Co. of Colorado
 22-16S-29E
 SHL 2303' FNL & 1427' FWL
 BHL 1980' FNL & 330' FEL
 Eddy County, NM

SR & A

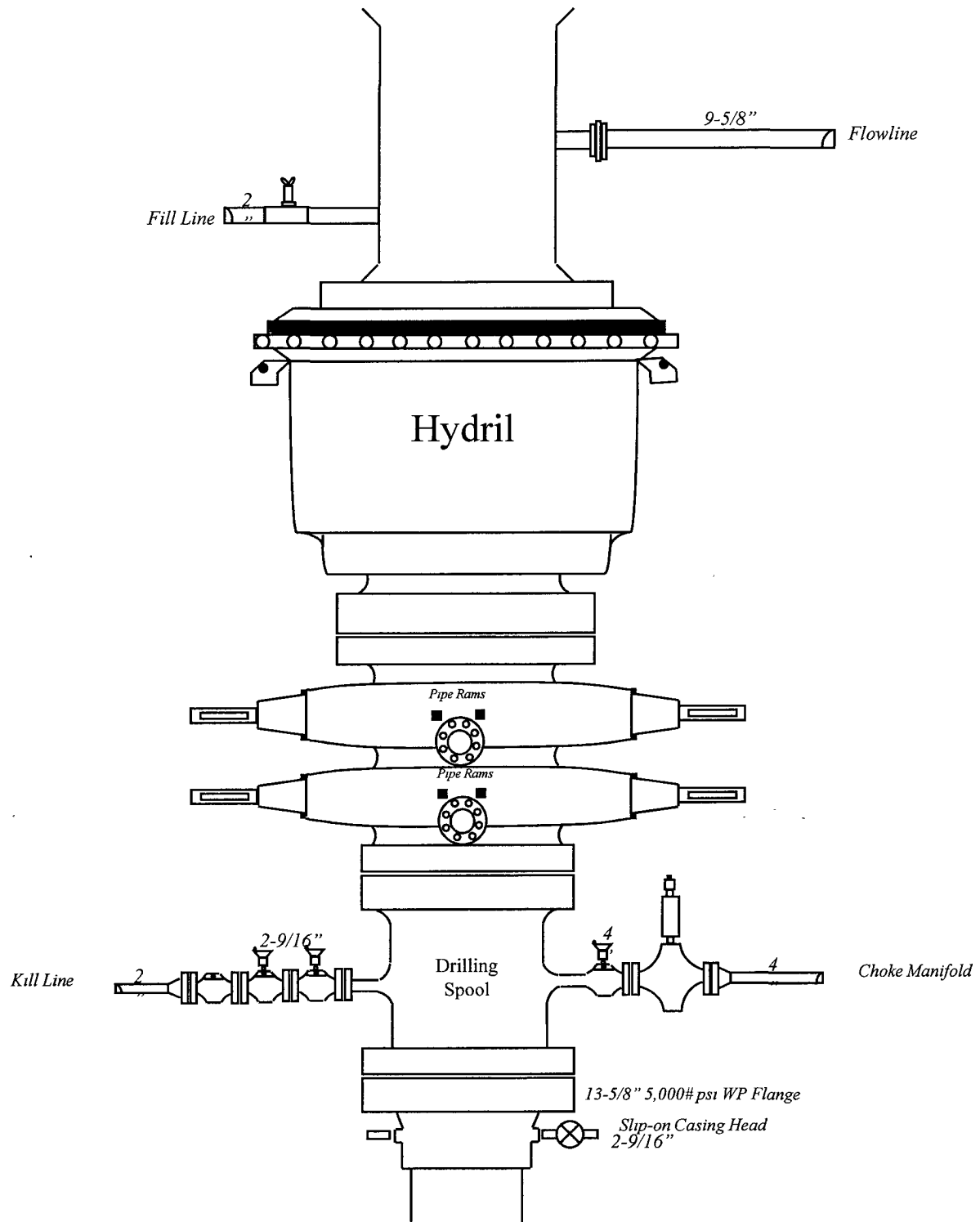


Exhibit E – BOP
Conoco 22 Federal Com No. 1 Re-entry
Cimarex Energy Co. of Colorado
22-16S-29E
SHL 2303' FNL & 1427' FWL
BHL 1980' FNL & 330' FEL
Eddy County, NM

**DRILLING OPERATIONS
CHOKE MANIFOLD
SM SERVICE**

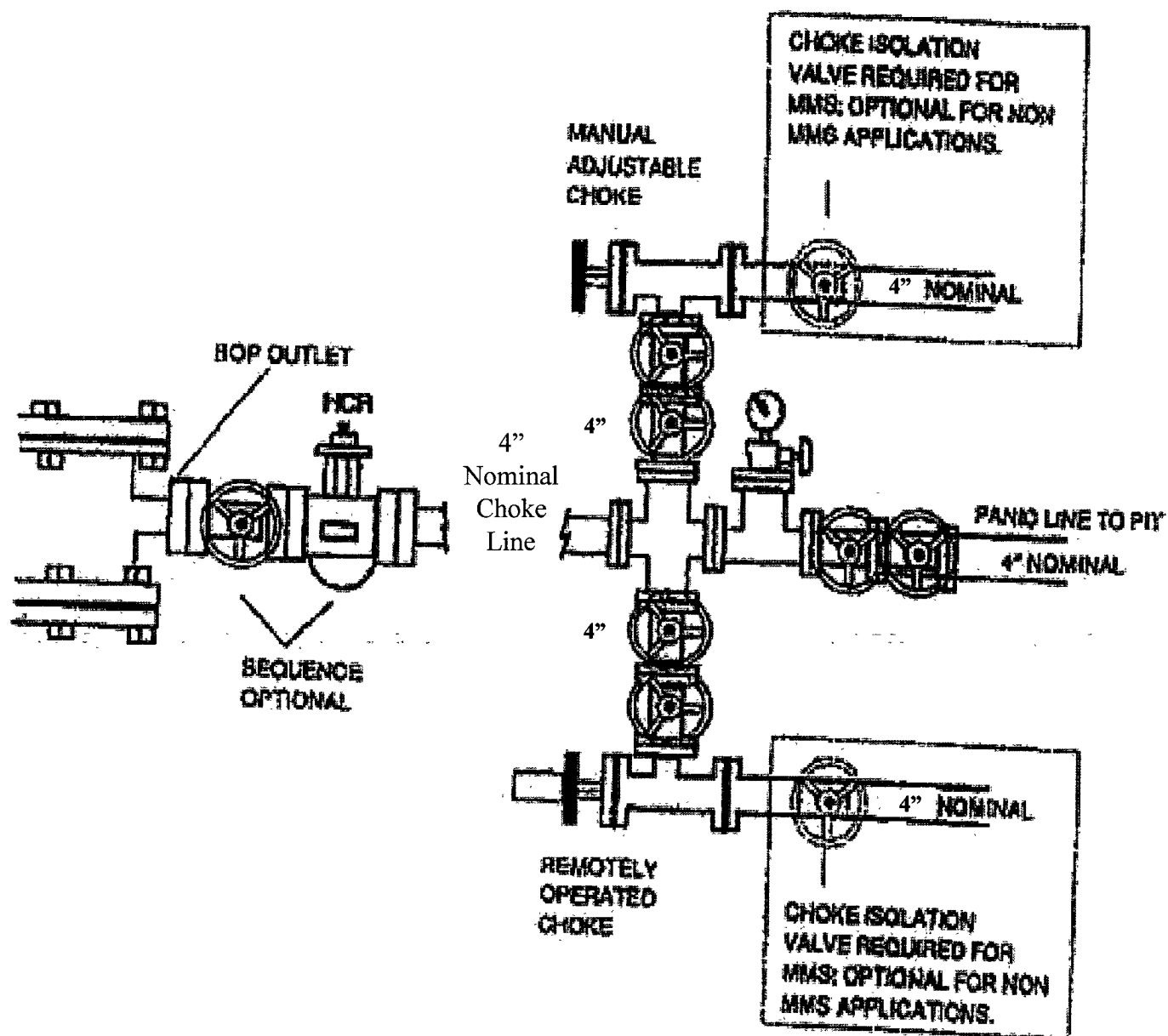


Exhibit E1 – Choke Manifold
Conoco 22 Federal Com No. 1 Re-entry
 Cimarex Energy Co. of Colorado
 22-16S-29E
 SHL 2303' FNL & 1427' FWL
 BHL 1980' FNL & 330' FEL
 Eddy County, NM

Conoco '22' Federal Com #1 Lateral Plan #1 Report 8-6-07.txt

Cimarex Energy Co., Inc.
Conoco '22' Federal Com #1 - Plan #1

Eddy Co., New Mexico
Conoco '22' Federal Com #1
Your Ref:

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
6730.00	0.742	84.510	6730.00	0.00 N	0.04 E	0.04
0.00						
6740.00	1.942	84.510	6740.00	0.03 N	0.27 E	0.27
12.00						
6750.00	3.142	84.510	6749.99	0.07 N	0.71 E	0.72
12.00						
6760.00	4.342	84.510	6759.97	0.13 N	1.36 E	1.37
12.00						
6770.00	5.542	84.510	6769.93	0.21 N	2.22 E	2.23
12.00						
6780.00	6.742	84.510	6779.87	0.32 N	3.29 E	3.30
12.00						
6790.00	7.942	84.510	6789.79	0.44 N	4.56 E	4.58
12.00						
6800.00	9.142	84.510	6799.68	0.58 N	6.04 E	6.07
12.00						
6810.00	10.342	84.510	6809.53	0.74 N	7.72 E	7.76
12.00						
6820.00	11.542	84.510	6819.35	0.92 N	9.61 E	9.66
12.00						
6830.00	12.742	84.510	6829.13	1.13 N	11.70 E	11.76
12.00						
6840.00	13.942	84.510	6838.86	1.35 N	14.00 E	14.07
12.00						
6850.00	15.142	84.510	6848.54	1.59 N	16.50 E	16.58
12.00						
6860.00	16.342	84.510	6858.16	1.85 N	19.20 E	19.29
12.00						
6870.00	17.542	84.510	6867.73	2.12 N	22.10 E	22.20
12.00						
6880.00	18.742	84.510	6877.23	2.42 N	25.20 E	25.32
12.00						
6890.00	19.942	84.510	6886.66	2.74 N	28.50 E	28.63
12.00						
6900.00	21.142	84.510	6896.03	3.07 N	31.99 E	32.14
12.00						
6910.00	22.342	84.510	6905.32	3.43 N	35.68 E	35.84
12.00						
6920.00	23.542	84.510	6914.53	3.80 N	39.56 E	39.74
12.00						
6930.00	24.742	84.510	6923.65	4.19 N	43.63 E	43.83
12.00						
6940.00	25.942	84.510	6932.69	4.60 N	47.89 E	48.11
12.00						
6950.00	27.142	84.510	6941.63	5.03 N	52.34 E	52.58

Conoco '22' Federal Com #1 Lateral Plan #1 Report 8-6-07.txt

12.00						
6960.00	28.342	84.510	6950.49	5.48 N	56.97 E	57.23
12.00						
6970.00	29.542	84.510	6959.24	5.94 N	61.79 E	62.07
12.00						
6980.00	30.742	84.510	6967.88	6.42 N	66.79 E	67.09
12.00						
6990.00	31.942	84.510	6976.42	6.92 N	71.96 E	72.30
12.00						
7000.00	33.142	84.510	6984.85	7.43 N	77.32 E	77.67
12.00						
7010.00	34.342	84.510	6993.17	7.96 N	82.85 E	83.23
12.00						
7020.00	35.542	84.510	7001.37	8.51 N	88.55 E	88.96
12.00						
7030.00	36.742	84.510	7009.44	9.08 N	94.42 E	94.85
12.00						
7040.00	37.942	84.510	7017.39	9.66 N	100.46 E	100.92
12.00						
7050.00	39.142	84.510	7025.21	10.25 N	106.66 E	107.15
12.00						
7060.00	40.342	84.510	7032.90	10.86 N	113.02 E	113.54
12.00						
7070.00	41.542	84.510	7040.46	11.49 N	119.55 E	120.10
12.00						
7080.00	42.742	84.510	7047.87	12.13 N	126.22 E	126.81
12.00						
7090.00	43.942	84.510	7055.14	12.79 N	133.06 E	133.67
12.00						
7100.00	45.142	84.510	7062.27	13.46 N	140.04 E	140.68
12.00						
7110.00	46.342	84.510	7069.25	14.15 N	147.17 E	147.85
12.00						
7120.00	47.542	84.510	7076.08	14.84 N	154.44 E	155.15
12.00						
7130.00	48.742	84.510	7082.75	15.56 N	161.85 E	162.60
12.00						
7140.00	49.942	84.510	7089.27	16.28 N	169.41 E	170.19
12.00						
7150.00	51.142	84.510	7095.62	17.02 N	177.09 E	177.91
12.00						
7160.00	52.342	84.510	7101.81	17.77 N	184.91 E	185.76
12.00						
7170.00	53.542	84.510	7107.84	18.54 N	192.85 E	193.74
12.00						
7180.00	54.742	84.510	7113.70	19.31 N	200.92 E	201.84
12.00						
7190.00	55.942	84.510	7119.38	20.10 N	209.11 E	210.07
12.00						
7200.00	57.142	84.510	7124.90	20.90 N	217.41 E	218.41
12.00						
7210.00	58.342	84.510	7130.23	21.71 N	225.83 E	226.87
12.00						
7220.00	59.542	84.510	7135.39	22.53 N	234.35 E	235.43
12.00						
7230.00	60.742	84.510	7140.37	23.36 N	242.99 E	244.11
12.00						
7240.00	61.942	84.510	7145.17	24.20 N	251.72 E	252.88
12.00						
7250.00	63.142	84.510	7149.78	25.04 N	260.55 E	261.76
12.00						
7260.00	64.342	84.510	7154.20	25.90 N	269.48 E	270.72
12.00						

	Conoco	'22'	Federal	Com #1	Lateral	Plan #1	Report 8-6-07.txt
7270.00	65.542	84.510	7158.44	26.77	N	278.50	E 279.78
12.00							
7280.00	66.742	84.510	7162.48	27.64	N	287.60	E 288.93
12.00							
7290.00	67.942	84.510	7166.33	28.53	N	296.79	E 298.16
12.00							
7300.00	69.142	84.510	7169.99	29.42	N	306.05	E 307.46
12.00							
7310.00	70.342	84.510	7173.45	30.31	N	315.39	E 316.84
12.00							
7320.00	71.542	84.510	7176.72	31.22	N	324.80	E 326.29
12.00							
7330.00	72.742	84.510	7179.79	32.13	N	334.27	E 335.81
12.00							
7340.00	73.942	84.510	7182.65	33.05	N	343.81	E 345.39
12.00							
7350.00	75.142	84.510	7185.32	33.97	N	353.40	E 355.03
12.00							
7360.00	76.342	84.510	7187.78	34.90	N	363.05	E 364.72
12.00							
7370.00	77.542	84.510	7190.04	35.83	N	372.75	E 374.46
12.00							
7380.00	78.742	84.510	7192.09	36.76	N	382.49	E 384.25
12.00							
7390.00	79.942	84.510	7193.94	37.70	N	392.27	E 394.08
12.00							
7400.00	81.142	84.510	7195.59	38.65	N	402.09	E 403.94
12.00							
7410.00	82.342	84.510	7197.02	39.60	N	411.94	E 413.84
12.00							
7420.00	83.542	84.510	7198.25	40.54	N	421.82	E 423.76
12.00							
7430.00	84.742	84.510	7199.27	41.50	N	431.72	E 433.71
12.00							
7440.00	85.942	84.510	7200.08	42.45	N	441.64	E 443.68
12.00							
7450.00	87.142	84.510	7200.69	43.41	N	451.58	E 453.66
12.00							
7460.00	88.342	84.510	7201.08	44.36	N	461.52	E 463.65
12.00							
7470.00	89.000	84.510	7201.29	45.32	N	471.47	E 473.65
6.58							
7480.00	89.000	84.510	7201.46	46.27	N	481.43	E 483.65
0.00							
7490.00	89.000	84.510	7201.64	47.23	N	491.38	E 493.64
0.00							
7500.00	89.000	84.510	7201.81	48.19	N	501.33	E 503.64
0.00							
7510.00	89.000	84.510	7201.99	49.14	N	511.29	E 513.64
0.00							
7520.00	89.000	84.510	7202.16	50.10	N	521.24	E 523.64
0.00							
7530.00	89.000	84.510	7202.34	51.06	N	531.19	E 533.64
0.00							
7540.00	89.000	84.510	7202.51	52.01	N	541.14	E 543.64
0.00							
7550.00	89.000	84.510	7202.68	52.97	N	551.10	E 553.64
0.00							
7560.00	89.000	84.510	7202.86	53.93	N	561.05	E 563.63
0.00							
7570.00	89.000	84.510	7203.03	54.88	N	571.00	E 573.63
0.00							
7580.00	89.000	84.510	7203.21	55.84	N	580.95	E 583.63

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0.00						
7590.00	89.000	84.510	7203.38	56.80 N	590.91 E	593.63
0.00						
7600.00	89.000	84.510	7203.56	57.75 N	600.86 E	603.63
0.00						
7610.00	89.000	84.510	7203.73	58.71 N	610.81 E	613.63
0.00						
7620.00	89.000	84.510	7203.91	59.67 N	620.76 E	623.62
0.00						
7630.00	89.000	84.510	7204.08	60.62 N	630.72 E	633.62
0.00						
7640.00	89.000	84.510	7204.26	61.58 N	640.67 E	643.62
0.00						
7650.00	89.000	84.510	7204.43	62.54 N	650.62 E	653.62
0.00						
7660.00	89.000	84.510	7204.60	63.49 N	660.57 E	663.62
0.00						
7670.00	89.000	84.510	7204.78	64.45 N	670.53 E	673.62
0.00						
7680.00	89.000	84.510	7204.95	65.41 N	680.48 E	683.62
0.00						
7690.00	89.000	84.510	7205.13	66.36 N	690.43 E	693.61
0.00						
7700.00	89.000	84.510	7205.30	67.32 N	700.38 E	703.61
0.00						
7710.00	89.000	84.510	7205.48	68.28 N	710.34 E	713.61
0.00						
7720.00	89.000	84.510	7205.65	69.23 N	720.29 E	723.61
0.00						
7730.00	89.000	84.510	7205.83	70.19 N	730.24 E	733.61
0.00						
7740.00	89.000	84.510	7206.00	71.15 N	740.20 E	743.61
0.00						
7750.00	89.000	84.510	7206.17	72.10 N	750.15 E	753.61
0.00						
7760.00	89.000	84.510	7206.35	73.06 N	760.10 E	763.60
0.00						
7770.00	89.000	84.510	7206.52	74.02 N	770.05 E	773.60
0.00						
7780.00	89.000	84.510	7206.70	74.97 N	780.01 E	783.60
0.00						
7790.00	89.000	84.510	7206.87	75.93 N	789.96 E	793.60
0.00						
7800.00	89.000	84.510	7207.05	76.89 N	799.91 E	803.60
0.00						
7810.00	89.000	84.510	7207.22	77.84 N	809.86 E	813.60
0.00						
7820.00	89.000	84.510	7207.40	78.80 N	819.82 E	823.59
0.00						
7830.00	89.000	84.510	7207.57	79.76 N	829.77 E	833.59
0.00						
7840.00	89.000	84.510	7207.75	80.71 N	839.72 E	843.59
0.00						
7850.00	89.000	84.510	7207.92	81.67 N	849.67 E	853.59
0.00						
7860.00	89.000	84.510	7208.09	82.63 N	859.63 E	863.59
0.00						
7870.00	89.000	84.510	7208.27	83.58 N	869.58 E	873.59
0.00						
7880.00	89.000	84.510	7208.44	84.54 N	879.53 E	883.59
0.00						
7890.00	89.000	84.510	7208.62	85.50 N	889.48 E	893.58
0.00						

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7900.00	89.000	84.510	7208.79	86.45 N	899.44 E	903.58
0.00						
7910.00	89.000	84.510	7208.97	87.41 N	909.39 E	913.58
0.00						
7920.00	89.000	84.510	7209.14	88.37 N	919.34 E	923.58
0.00						
7930.00	89.000	84.510	7209.32	89.32 N	929.29 E	933.58
0.00						
7940.00	89.000	84.510	7209.49	90.28 N	939.25 E	943.58
0.00						
7950.00	89.000	84.510	7209.67	91.24 N	949.20 E	953.57
0.00						
7960.00	89.000	84.510	7209.84	92.19 N	959.15 E	963.57
0.00						
7970.00	89.000	84.510	7210.01	93.15 N	969.11 E	973.57
0.00						
7980.00	89.000	84.510	7210.19	94.11 N	979.06 E	983.57
0.00						
7990.00	89.000	84.510	7210.36	95.06 N	989.01 E	993.57
0.00						
8000.00	89.000	84.510	7210.54	96.02 N	998.96 E	1003.57
0.00						
8010.00	89.000	84.510	7210.71	96.98 N	1008.92 E	1013.57
0.00						
8020.00	89.000	84.510	7210.89	97.93 N	1018.87 E	1023.56
0.00						
8030.00	89.000	84.510	7211.06	98.89 N	1028.82 E	1033.56
0.00						
8040.00	89.000	84.510	7211.24	99.85 N	1038.77 E	1043.56
0.00						
8050.00	89.000	84.510	7211.41	100.80 N	1048.73 E	1053.56
0.00						
8060.00	89.000	84.510	7211.59	101.76 N	1058.68 E	1063.56
0.00						
8070.00	89.000	84.510	7211.76	102.72 N	1068.63 E	1073.56
0.00						
8080.00	89.000	84.510	7211.93	103.67 N	1078.58 E	1083.55
0.00						
8090.00	89.000	84.510	7212.11	104.63 N	1088.54 E	1093.55
0.00						
8100.00	89.000	84.510	7212.28	105.59 N	1098.49 E	1103.55
0.00						
8110.00	89.000	84.510	7212.46	106.54 N	1108.44 E	1113.55
0.00						
8120.00	89.000	84.510	7212.63	107.50 N	1118.39 E	1123.55
0.00						
8130.00	89.000	84.510	7212.81	108.46 N	1128.35 E	1133.55
0.00						
8140.00	89.000	84.510	7212.98	109.41 N	1138.30 E	1143.55
0.00						
8150.00	89.000	84.510	7213.16	110.37 N	1148.25 E	1153.54
0.00						
8160.00	89.000	84.510	7213.33	111.33 N	1158.20 E	1163.54
0.00						
8170.00	89.000	84.510	7213.50	112.28 N	1168.16 E	1173.54
0.00						
8180.00	89.000	84.510	7213.68	113.24 N	1178.11 E	1183.54
0.00						
8190.00	89.000	84.510	7213.85	114.20 N	1188.06 E	1193.54
0.00						
8200.00	89.000	84.510	7214.03	115.15 N	1198.02 E	1203.54
0.00						
8210.00	89.000	84.510	7214.20	116.11 N	1207.97 E	1213.54

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0.00						
8220.00	89.000	84.510	7214.38	117.07 N	1217.92 E	1223.53
0.00						
8230.00	89.000	84.510	7214.55	118.02 N	1227.87 E	1233.53
0.00						
8240.00	89.000	84.510	7214.73	118.98 N	1237.83 E	1243.53
0.00						
8250.00	89.000	84.510	7214.90	119.93 N	1247.78 E	1253.53
0.00						
8260.00	89.000	84.510	7215.08	120.89 N	1257.73 E	1263.53
0.00						
8270.00	89.000	84.510	7215.25	121.85 N	1267.68 E	1273.53
0.00						
8280.00	89.000	84.510	7215.42	122.80 N	1277.64 E	1283.52
0.00						
8290.00	89.000	84.510	7215.60	123.76 N	1287.59 E	1293.52
0.00						
8300.00	89.000	84.510	7215.77	124.72 N	1297.54 E	1303.52
0.00						
8310.00	89.000	84.510	7215.95	125.67 N	1307.49 E	1313.52
0.00						
8320.00	89.000	84.510	7216.12	126.63 N	1317.45 E	1323.52
0.00						
8330.00	89.000	84.510	7216.30	127.59 N	1327.40 E	1333.52
0.00						
8340.00	89.000	84.510	7216.47	128.54 N	1337.35 E	1343.52
0.00						
8350.00	89.000	84.510	7216.65	129.50 N	1347.30 E	1353.51
0.00						
8360.00	89.000	84.510	7216.82	130.46 N	1357.26 E	1363.51
0.00						
8370.00	89.000	84.510	7217.00	131.41 N	1367.21 E	1373.51
0.00						
8380.00	89.000	84.510	7217.17	132.37 N	1377.16 E	1383.51
0.00						
8390.00	89.000	84.510	7217.34	133.33 N	1387.11 E	1393.51
0.00						
8400.00	89.000	84.510	7217.52	134.28 N	1397.07 E	1403.51
0.00						
8410.00	89.000	84.510	7217.69	135.24 N	1407.02 E	1413.50
0.00						
8420.00	89.000	84.510	7217.87	136.20 N	1416.97 E	1423.50
0.00						
8430.00	89.000	84.510	7218.04	137.15 N	1426.93 E	1433.50
0.00						
8440.00	89.000	84.510	7218.22	138.11 N	1436.88 E	1443.50
0.00						
8450.00	89.000	84.510	7218.39	139.07 N	1446.83 E	1453.50
0.00						
8460.00	89.000	84.510	7218.57	140.02 N	1456.78 E	1463.50
0.00						
8470.00	89.000	84.510	7218.74	140.98 N	1466.74 E	1473.50
0.00						
8480.00	89.000	84.510	7218.92	141.94 N	1476.69 E	1483.49
0.00						
8490.00	89.000	84.510	7219.09	142.89 N	1486.64 E	1493.49
0.00						
8500.00	89.000	84.510	7219.26	143.85 N	1496.59 E	1503.49
0.00						
8510.00	89.000	84.510	7219.44	144.81 N	1506.55 E	1513.49
0.00						
8520.00	89.000	84.510	7219.61	145.76 N	1516.50 E	1523.49
0.00						

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8530.00	89.000	84.510	7219.79	146.72 N	1526.45 E	1533.49
0.00						
8540.00	89.000	84.510	7219.96	147.68 N	1536.40 E	1543.48
0.00						
8550.00	89.000	84.510	7220.14	148.63 N	1546.36 E	1553.48
0.00						
8560.00	89.000	84.510	7220.31	149.59 N	1556.31 E	1563.48
0.00						
8570.00	89.000	84.510	7220.49	150.55 N	1566.26 E	1573.48
0.00						
8580.00	89.000	84.510	7220.66	151.50 N	1576.21 E	1583.48
0.00						
8590.00	89.000	84.510	7220.83	152.46 N	1586.17 E	1593.48
0.00						
8600.00	89.000	84.510	7221.01	153.42 N	1596.12 E	1603.48
0.00						
8610.00	89.000	84.510	7221.18	154.37 N	1606.07 E	1613.47
0.00						
8620.00	89.000	84.510	7221.36	155.33 N	1616.02 E	1623.47
0.00						
8630.00	89.000	84.510	7221.53	156.29 N	1625.98 E	1633.47
0.00						
8640.00	89.000	84.510	7221.71	157.24 N	1635.93 E	1643.47
0.00						
8650.00	89.000	84.510	7221.88	158.20 N	1645.88 E	1653.47
0.00						
8660.00	89.000	84.510	7222.06	159.16 N	1655.84 E	1663.47
0.00						
8670.00	89.000	84.510	7222.23	160.11 N	1665.79 E	1673.47
0.00						
8680.00	89.000	84.510	7222.41	161.07 N	1675.74 E	1683.46
0.00						
8690.00	89.000	84.510	7222.58	162.03 N	1685.69 E	1693.46
0.00						
8700.00	89.000	84.510	7222.75	162.98 N	1695.65 E	1703.46
0.00						
8710.00	89.000	84.510	7222.93	163.94 N	1705.60 E	1713.46
0.00						
8720.00	89.000	84.510	7223.10	164.90 N	1715.55 E	1723.46
0.00						
8730.00	89.000	84.510	7223.28	165.85 N	1725.50 E	1733.46
0.00						
8740.00	89.000	84.510	7223.45	166.81 N	1735.46 E	1743.45
0.00						
8750.00	89.000	84.510	7223.63	167.77 N	1745.41 E	1753.45
0.00						
8760.00	89.000	84.510	7223.80	168.72 N	1755.36 E	1763.45
0.00						
8770.00	89.000	84.510	7223.98	169.68 N	1765.31 E	1773.45
0.00						
8780.00	89.000	84.510	7224.15	170.64 N	1775.27 E	1783.45
0.00						
8790.00	89.000	84.510	7224.33	171.59 N	1785.22 E	1793.45
0.00						
8800.00	89.000	84.510	7224.50	172.55 N	1795.17 E	1803.45
0.00						
8810.00	89.000	84.510	7224.67	173.51 N	1805.12 E	1813.44
0.00						
8820.00	89.000	84.510	7224.85	174.46 N	1815.08 E	1823.44
0.00						
8830.00	89.000	84.510	7225.02	175.42 N	1825.03 E	1833.44
0.00						
8840.00	89.000	84.510	7225.20	176.38 N	1834.98 E	1843.44

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0.00						
8850.00	89.000	84.510	7225.37	177.33 N	1844.93 E	1853.44
0.00						
8860.00	89.000	84.510	7225.55	178.29 N	1854.89 E	1863.44
0.00						
8870.00	89.000	84.510	7225.72	179.25 N	1864.84 E	1873.43
0.00						
8880.00	89.000	84.510	7225.90	180.20 N	1874.79 E	1883.43
0.00						
8890.00	89.000	84.510	7226.07	181.16 N	1884.75 E	1893.43
0.00						
8900.00	89.000	84.510	7226.25	182.12 N	1894.70 E	1903.43
0.00						
8910.00	89.000	84.510	7226.42	183.07 N	1904.65 E	1913.43
0.00						
8920.00	89.000	84.510	7226.59	184.03 N	1914.60 E	1923.43
0.00						
8930.00	89.000	84.510	7226.77	184.99 N	1924.56 E	1933.43
0.00						
8940.00	89.000	84.510	7226.94	185.94 N	1934.51 E	1943.42
0.00						
8950.00	89.000	84.510	7227.12	186.90 N	1944.46 E	1953.42
0.00						
8960.00	89.000	84.510	7227.29	187.86 N	1954.41 E	1963.42
0.00						
8970.00	89.000	84.510	7227.47	188.81 N	1964.37 E	1973.42
0.00						
8980.00	89.000	84.510	7227.64	189.77 N	1974.32 E	1983.42
0.00						
8990.00	89.000	84.510	7227.82	190.73 N	1984.27 E	1993.42
0.00						
9000.00	89.000	84.510	7227.99	191.68 N	1994.22 E	2003.41
0.00						
9010.00	89.000	84.510	7228.16	192.64 N	2004.18 E	2013.41
0.00						
9020.00	89.000	84.510	7228.34	193.60 N	2014.13 E	2023.41
0.00						
9030.00	89.000	84.510	7228.51	194.55 N	2024.08 E	2033.41
0.00						
9040.00	89.000	84.510	7228.69	195.51 N	2034.03 E	2043.41
0.00						
9050.00	89.000	84.510	7228.86	196.47 N	2043.99 E	2053.41
0.00						
9060.00	89.000	84.510	7229.04	197.42 N	2053.94 E	2063.41
0.00						
9070.00	89.000	84.510	7229.21	198.38 N	2063.89 E	2073.40
0.00						
9080.00	89.000	84.510	7229.39	199.34 N	2073.84 E	2083.40
0.00						
9090.00	89.000	84.510	7229.56	200.29 N	2083.80 E	2093.40
0.00						
9100.00	89.000	84.510	7229.74	201.25 N	2093.75 E	2103.40
0.00						
9110.00	89.000	84.510	7229.91	202.21 N	2103.70 E	2113.40
0.00						
9120.00	89.000	84.510	7230.08	203.16 N	2113.66 E	2123.40
0.00						
9130.00	89.000	84.510	7230.26	204.12 N	2123.61 E	2133.39
0.00						
9140.00	89.000	84.510	7230.43	205.08 N	2133.56 E	2143.39
0.00						
9150.00	89.000	84.510	7230.61	206.03 N	2143.51 E	2153.39
0.00						

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9160.00	89.000	84.510	7230.78	206.99	N	2153.47	E	2163.39
0.00								
9170.00	89.000	84.510	7230.96	207.95	N	2163.42	E	2173.39
0.00								
9180.00	89.000	84.510	7231.13	208.90	N	2173.37	E	2183.39
0.00								
9190.00	89.000	84.510	7231.31	209.86	N	2183.32	E	2193.39
0.00								
9200.00	89.000	84.510	7231.48	210.82	N	2193.28	E	2203.38
0.00								
9210.00	89.000	84.510	7231.66	211.77	N	2203.23	E	2213.38
0.00								
9220.00	89.000	84.510	7231.83	212.73	N	2213.18	E	2223.38
0.00								
9230.00	89.000	84.510	7232.00	213.68	N	2223.13	E	2233.38
0.00								
9240.00	89.000	84.510	7232.18	214.64	N	2233.09	E	2243.38
0.00								
9250.00	89.000	84.510	7232.35	215.60	N	2243.04	E	2253.38
0.00								
9260.00	89.000	84.510	7232.53	216.55	N	2252.99	E	2263.38
0.00								
9270.00	89.000	84.510	7232.70	217.51	N	2262.94	E	2273.37
0.00								
9280.00	89.000	84.510	7232.88	218.47	N	2272.90	E	2283.37
0.00								
9290.00	89.000	84.510	7233.05	219.42	N	2282.85	E	2293.37
0.00								
9300.00	89.000	84.510	7233.23	220.38	N	2292.80	E	2303.37
0.00								
9310.00	89.000	84.510	7233.40	221.34	N	2302.75	E	2313.37
0.00								
9320.00	89.000	84.510	7233.58	222.29	N	2312.71	E	2323.37
0.00								
9330.00	89.000	84.510	7233.75	223.25	N	2322.66	E	2333.36
0.00								
9340.00	89.000	84.510	7233.92	224.21	N	2332.61	E	2343.36
0.00								
9350.00	89.000	84.510	7234.10	225.16	N	2342.57	E	2353.36
0.00								
9360.00	89.000	84.510	7234.27	226.12	N	2352.52	E	2363.36
0.00								
9370.00	89.000	84.510	7234.45	227.08	N	2362.47	E	2373.36
0.00								
9380.00	89.000	84.510	7234.62	228.03	N	2372.42	E	2383.36
0.00								
9390.00	89.000	84.510	7234.80	228.99	N	2382.38	E	2393.36
0.00								
9400.00	89.000	84.510	7234.97	229.95	N	2392.33	E	2403.35
0.00								
9410.00	89.000	84.510	7235.15	230.90	N	2402.28	E	2413.35
0.00								
9420.00	89.000	84.510	7235.32	231.86	N	2412.23	E	2423.35
0.00								
9430.00	89.000	84.510	7235.49	232.82	N	2422.19	E	2433.35
0.00								
9440.00	89.000	84.510	7235.67	233.77	N	2432.14	E	2443.35
0.00								
9450.00	89.000	84.510	7235.84	234.73	N	2442.09	E	2453.35
0.00								
9460.00	89.000	84.510	7236.02	235.69	N	2452.04	E	2463.34
0.00								
9470.00	89.000	84.510	7236.19	236.64	N	2462.00	E	2473.34

Conoco '22' Federal Com #1 Lateral Plan #1 Report 8-6-07.txt

0.00						
9480.00	89.000	84.510	7236.37	237.60 N	2471.95 E	2483.34
0.00						
9490.00	89.000	84.510	7236.54	238.56 N	2481.90 E	2493.34
0.00						
9500.00	89.000	84.510	7236.72	239.51 N	2491.85 E	2503.34
0.00						
9510.00	89.000	84.510	7236.89	240.47 N	2501.81 E	2513.34
0.00						
9520.00	89.000	84.510	7237.07	241.43 N	2511.76 E	2523.34
0.00						
9530.00	89.000	84.510	7237.24	242.38 N	2521.71 E	2533.33
0.00						
9540.00	89.000	84.510	7237.41	243.34 N	2531.66 E	2543.33
0.00						
9550.00	89.000	84.510	7237.59	244.30 N	2541.62 E	2553.33
0.00						
9560.00	89.000	84.510	7237.76	245.25 N	2551.57 E	2563.33
0.00						
9570.00	89.000	84.510	7237.94	246.21 N	2561.52 E	2573.33
0.00						
9580.00	89.000	84.510	7238.11	247.17 N	2571.48 E	2583.33
0.00						
9590.00	89.000	84.510	7238.29	248.12 N	2581.43 E	2593.32
0.00						
9600.00	89.000	84.510	7238.46	249.08 N	2591.38 E	2603.32
0.00						
9610.00	89.000	84.510	7238.64	250.04 N	2601.33 E	2613.32
0.00						
9620.00	89.000	84.510	7238.81	250.99 N	2611.29 E	2623.32
0.00						
9630.00	89.000	84.510	7238.99	251.95 N	2621.24 E	2633.32
0.00						
9640.00	89.000	84.510	7239.16	252.91 N	2631.19 E	2643.32
0.00						
9650.00	89.000	84.510	7239.33	253.86 N	2641.14 E	2653.32
0.00						
9660.00	89.000	84.510	7239.51	254.82 N	2651.10 E	2663.31
0.00						
9670.00	89.000	84.510	7239.68	255.78 N	2661.05 E	2673.31
0.00						
9680.00	89.000	84.510	7239.86	256.73 N	2671.00 E	2683.31
0.00						
9690.00	89.000	84.510	7240.03	257.69 N	2680.95 E	2693.31
0.00						
9700.00	89.000	84.510	7240.21	258.65 N	2690.91 E	2703.31
0.00						
9710.00	89.000	84.510	7240.38	259.60 N	2700.86 E	2713.31
0.00						
9720.00	89.000	84.510	7240.56	260.56 N	2710.81 E	2723.31
0.00						
9730.00	89.000	84.510	7240.73	261.52 N	2720.76 E	2733.30
0.00						
9740.00	89.000	84.510	7240.91	262.47 N	2730.72 E	2743.30
0.00						
9750.00	89.000	84.510	7241.08	263.43 N	2740.67 E	2753.30
0.00						
9760.00	89.000	84.510	7241.25	264.39 N	2750.62 E	2763.30
0.00						
9770.00	89.000	84.510	7241.43	265.34 N	2760.57 E	2773.30
0.00						
9780.00	89.000	84.510	7241.60	266.30 N	2770.53 E	2783.30
0.00						

	Conoco	'22' Federal	Com #1	Lateral Plan #1	Report 8-6-07.txt	
9790.00	89.000	84.510	7241.78	267.26 N	2780.48 E	2793.29
0.00						
9800.00	89.000	84.510	7241.95	268.21 N	2790.43 E	2803.29
0.00						
9810.00	89.000	84.510	7242.13	269.17 N	2800.38 E	2813.29
0.00						
9820.00	89.000	84.510	7242.30	270.13 N	2810.34 E	2823.29
0.00						
9830.00	89.000	84.510	7242.48	271.08 N	2820.29 E	2833.29
0.00						
9840.00	89.000	84.510	7242.65	272.04 N	2830.24 E	2843.29
0.00						
9850.00	89.000	84.510	7242.82	273.00 N	2840.20 E	2853.29
0.00						
9860.00	89.000	84.510	7243.00	273.95 N	2850.15 E	2863.28
0.00						
9870.00	89.000	84.510	7243.17	274.91 N	2860.10 E	2873.28
0.00						
9880.00	89.000	84.510	7243.35	275.87 N	2870.05 E	2883.28
0.00						
9890.00	89.000	84.510	7243.52	276.82 N	2880.01 E	2893.28
0.00						
9900.00	89.000	84.510	7243.70	277.78 N	2889.96 E	2903.28
0.00						
9910.00	89.000	84.510	7243.87	278.74 N	2899.91 E	2913.28
0.00						
9920.00	89.000	84.510	7244.05	279.69 N	2909.86 E	2923.27
0.00						
9930.00	89.000	84.510	7244.22	280.65 N	2919.82 E	2933.27
0.00						
9940.00	89.000	84.510	7244.40	281.61 N	2929.77 E	2943.27
0.00						
9950.00	89.000	84.510	7244.57	282.56 N	2939.72 E	2953.27
0.00						
9960.00	89.000	84.510	7244.74	283.52 N	2949.67 E	2963.27
0.00						
9970.00	89.000	84.510	7244.92	284.48 N	2959.63 E	2973.27
0.00						
9980.00	89.000	84.510	7245.09	285.43 N	2969.58 E	2983.27
0.00						
9990.00	89.000	84.510	7245.27	286.39 N	2979.53 E	2993.26
0.00						
10000.00	89.000	84.510	7245.44	287.35 N	2989.48 E	3003.26
0.00						
10010.00	89.000	84.510	7245.62	288.30 N	2999.44 E	3013.26
0.00						
10020.00	89.000	84.510	7245.79	289.26 N	3009.39 E	3023.26
0.00						
10030.00	89.000	84.510	7245.97	290.22 N	3019.34 E	3033.26
0.00						
10040.00	89.000	84.510	7246.14	291.17 N	3029.29 E	3043.26
0.00						
10050.00	89.000	84.510	7246.32	292.13 N	3039.25 E	3053.25
0.00						
10060.00	89.000	84.510	7246.49	293.09 N	3049.20 E	3063.25
0.00						
10070.00	89.000	84.510	7246.66	294.04 N	3059.15 E	3073.25
0.00						
10080.00	89.000	84.510	7246.84	295.00 N	3069.11 E	3083.25
0.00						
10090.00	89.000	84.510	7247.01	295.96 N	3079.06 E	3093.25
0.00						
10100.00	89.000	84.510	7247.19	296.91 N	3089.01 E	3103.25

Conoco '22' Federal Com #1 Lateral Plan #1 Report 8-6-07.txt

0.00						
10110.00	89.000	84.510	7247.36	297.87 N	3098.96 E	3113.25
0.00						
10120.00	89.000	84.510	7247.54	298.83 N	3108.92 E	3123.24
0.00						
10130.00	89.000	84.510	7247.71	299.78 N	3118.87 E	3133.24
0.00						
10140.00	89.000	84.510	7247.89	300.74 N	3128.82 E	3143.24
0.00						
10150.00	89.000	84.510	7248.06	301.70 N	3138.77 E	3153.24
0.00						
10160.00	89.000	84.510	7248.24	302.65 N	3148.73 E	3163.24
0.00						
10170.00	89.000	84.510	7248.41	303.61 N	3158.68 E	3173.24
0.00						
10180.00	89.000	84.510	7248.58	304.57 N	3168.63 E	3183.24
0.00						
10190.00	89.000	84.510	7248.76	305.52 N	3178.58 E	3193.23
0.00						
10200.00	89.000	84.510	7248.93	306.48 N	3188.54 E	3203.23
0.00						
10210.00	89.000	84.510	7249.11	307.43 N	3198.49 E	3213.23
0.00						
10220.00	89.000	84.510	7249.28	308.39 N	3208.44 E	3223.23
0.00						
10230.00	89.000	84.510	7249.46	309.35 N	3218.39 E	3233.23
0.00						
10240.00	89.000	84.510	7249.63	310.30 N	3228.35 E	3243.23
0.00						
10250.00	89.000	84.510	7249.81	311.26 N	3238.30 E	3253.22
0.00						
10260.00	89.000	84.510	7249.98	312.22 N	3248.25 E	3263.22
0.00						
10270.00	89.000	84.510	7250.15	313.17 N	3258.20 E	3273.22
0.00						
10280.00	89.000	84.510	7250.33	314.13 N	3268.16 E	3283.22
0.00						
10290.00	89.000	84.510	7250.50	315.09 N	3278.11 E	3293.22
0.00						
10300.00	89.000	84.510	7250.68	316.04 N	3288.06 E	3303.22
0.00						
10310.00	89.000	84.510	7250.85	317.00 N	3298.02 E	3313.22
0.00						
10320.00	89.000	84.510	7251.03	317.96 N	3307.97 E	3323.21
0.00						
10330.00	89.000	84.510	7251.20	318.91 N	3317.92 E	3333.21
0.00						
10340.00	89.000	84.510	7251.38	319.87 N	3327.87 E	3343.21
0.00						
10350.00	89.000	84.510	7251.55	320.83 N	3337.83 E	3353.21
0.00						
10360.00	89.000	84.510	7251.73	321.78 N	3347.78 E	3363.21
0.00						
10370.00	89.000	84.510	7251.90	322.74 N	3357.73 E	3373.21
0.00						
10380.00	89.000	84.510	7252.07	323.70 N	3367.68 E	3383.20
0.00						
10390.00	89.000	84.510	7252.25	324.65 N	3377.64 E	3393.20
0.00						
10400.00	89.000	84.510	7252.42	325.61 N	3387.59 E	3403.20
0.00						
10410.00	89.000	84.510	7252.60	326.57 N	3397.54 E	3413.20
0.00						

Conoco '22' Federal Com #1 Lateral Plan #1 Report 8-6-07.txt						
10420.00	89.000	84.510	7252.77	327.52 N	3407.49 E	3423.20
0.00						
10430.00	89.000	84.510	7252.95	328.48 N	3417.45 E	3433.20
0.00						
10440.00	89.000	84.510	7253.12	329.44 N	3427.40 E	3443.20
0.00						
10450.00	89.000	84.510	7253.30	330.39 N	3437.35 E	3453.19
0.00						
10460.00	89.000	84.510	7253.47	331.35 N	3447.30 E	3463.19
0.00						
10470.00	89.000	84.510	7253.65	332.31 N	3457.26 E	3473.19
0.00						
10480.00	89.000	84.510	7253.82	333.26 N	3467.21 E	3483.19
0.00						
10490.00	89.000	84.510	7253.99	334.22 N	3477.16 E	3493.19
0.00						
10500.00	89.000	84.510	7254.17	335.18 N	3487.11 E	3503.19
0.00						
10510.00	89.000	84.510	7254.34	336.13 N	3497.07 E	3513.18
0.00						
10520.00	89.000	84.510	7254.52	337.09 N	3507.02 E	3523.18
0.00						
10525.85	89.000	84.510	7254.62	337.65 N	3512.84 E	3529.03
0.00						

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to WELL. Northings and Eastings are relative to well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 84.510° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Central meridian is -104.333°.
Grid Convergence at Surface is 0.145°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 10525.85ft., the Bottom Hole Displacement is 3529.03ft., in the Direction of 84.510° (Grid).



Cimarex Energy Co., Inc.

Eddy Co., New Mexico

Conoco '22' Federal Com #1

Concoco '22' Federal Com #1

Lateral #1

Plan: Plan #1

Standard Survey Report

06 August, 2007





Black Viper Energy Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Concoco '22' Federal Com #1
Project:	Eddy Co., New Mexico	TVD Reference:	WELL @ 3670 00ft (Original Well Elev)
Site:	Conoco '22' Federal Com #1	MD Reference:	WELL @ 3670 00ft (Original Well Elev)
Well:	Concoco '22' Federal Com #1	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14 10 Server DB

Project:	Eddy Co., New Mexico		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Conoco '22' Federal Com #1			
Site Position:		Northing:	694,195.52 ft	Latitude:	32° 54' 29.056 N
From:	Map	Easting:	623,197.33 ft	Longitude:	104° 3' 59.765 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.14 °

Well	Concoco '22' Federal Com #1					
Well Position	+N/-S	0 00 ft	Northing:	694,195.52 ft	Latitude:	32° 54' 29.056 N
	+E/-W	0 00 ft	Easting:	623,197.33 ft	Longitude:	104° 3' 59.765 W
Position Uncertainty		0 00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft

Wellbore		Lateral: #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/6/2007	8.31	60.84	49,352

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	6,723.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	84.51

Survey Tool Program		Date	8/6/2007		
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
6,723.00	10,525.85	Plan #1 (Lateral #1)	MWD	MWD - Standard	

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,723.00	0.00	0 00	6,723.00	0 00	0.00	0 00	0.00	0 00	0.00
6,723.82	0 00	0 00	6,723.82	0 00	0.00	0 00	0.00	0 00	0.00
KOP Build 12.0° / 100									
6,725.00	0.14	84 51	6,725.00	0.00	0 00	0.00	12.04	12.04	0.00
6,750.00	3.14	84.51	6,749.99	0 07	0.71	0.72	12.00	12.00	0.00
6,775.00	6 14	84.51	6,774.90	0 26	2 73	2 74	12.00	12.00	0.00
6,800.00	9 14	84 51	6,799.68	0.58	6 04	6 07	12.00	12.00	0.00
6,825.00	12.14	84 51	6,824.24	1.02	10.63	10.68	12.00	12 00	0 00
6,850.00	15.14	84.51	6,848.54	1 59	16 50	16.58	12 00	12 00	0 00
6,875.00	18 14	84.51	6,872.49	2 27	23 63	23 74	12 00	12.00	0.00
6,900.00	21 14	84.51	6,896.03	3 07	31.99	32.14	12 00	12.00	0 00
6,925.00	24 14	84.51	6,919.10	4.00	41.57	41.76	12 00	12 00	0.00
6,950.00	27.14	84.51	6,941.63	5.03	52 34	52 58	12.00	12 00	0.00



Black Viper Energy Survey Report



Company:	Cimarex Energy Co., Inc	Local Co-ordinate Reference:	Well Concoco '22' Federal Com #1
Project:	Eddy Co., New Mexico.	TVD Reference:	WELL @ 3670.00ft (Original Well Elev)
Site:	Concoco '22' Federal Com #1	MD Reference:	WELL @ 3670.00ft (Original Well Elev)
Well:	Concoco '22' Federal Com #1	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14.1.0 Server DB

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,975.00	30.14	84.51	6,963.57	6.18	64.27	64.56	12.00	12.00	0.00
7,000.00	33.14	84.51	6,984.85	7.43	77.32	77.67	12.00	12.00	0.00
7,025.00	36.14	84.51	7,005.42	8.79	91.46	91.88	12.00	12.00	0.00
7,050.00	39.14	84.51	7,025.21	10.25	106.66	107.15	12.00	12.00	0.00
7,075.00	42.14	84.51	7,044.18	11.81	122.87	123.43	12.00	12.00	0.00
7,100.00	45.14	84.51	7,062.27	13.46	140.04	140.68	12.00	12.00	0.00
7,125.00	48.14	84.51	7,079.43	15.20	158.13	158.86	12.00	12.00	0.00
7,150.00	51.14	84.51	7,095.62	17.02	177.09	177.91	12.00	12.00	0.00
7,175.00	54.14	84.51	7,110.79	18.92	196.87	197.78	12.00	12.00	0.00
7,200.00	57.14	84.51	7,124.90	20.90	217.41	218.41	12.00	12.00	0.00
7,225.00	60.14	84.51	7,137.90	22.94	238.66	239.76	12.00	12.00	0.00
7,250.00	63.14	84.51	7,149.78	25.04	260.55	261.76	12.00	12.00	0.00
7,275.00	66.14	84.51	7,160.48	27.21	283.04	284.34	12.00	12.00	0.00
7,300.00	69.14	84.51	7,169.99	29.42	306.05	307.46	12.00	12.00	0.00
7,325.00	72.14	84.51	7,178.28	31.67	329.53	331.05	12.00	12.00	0.00
7,350.00	75.14	84.51	7,185.32	33.97	353.40	355.03	12.00	12.00	0.00
7,369.82	77.52	84.51	7,190.00	35.81	372.57	374.29	12.00	12.00	0.00
Lower Abo Dolomite									
7,375.00	78.14	84.51	7,191.09	36.30	377.61	379.35	12.00	12.00	0.00
7,400.00	81.14	84.51	7,195.59	38.65	402.09	403.94	12.00	12.00	0.00
7,425.00	84.14	84.51	7,198.79	41.02	426.77	428.73	12.00	12.00	0.00
7,450.00	87.14	84.51	7,200.69	43.41	451.58	453.66	12.00	12.00	0.00
7,465.48	89.00	84.51	7,201.21	44.89	466.98	469.13	12.00	12.00	0.00
EOC - Hold 89.0° Inc - 84.51° Azi									
7,500.00	89.00	84.51	7,201.81	48.19	501.33	503.64	0.00	0.00	0.00
7,600.00	89.00	84.51	7,203.56	57.75	600.86	603.63	0.00	0.00	0.00
7,700.00	89.00	84.51	7,205.30	67.32	700.38	703.61	0.00	0.00	0.00
7,800.00	89.00	84.51	7,207.05	76.89	799.91	803.60	0.00	0.00	0.00
7,900.00	89.00	84.51	7,208.79	86.45	899.44	903.58	0.00	0.00	0.00
8,000.00	89.00	84.51	7,210.54	96.02	998.96	1,003.57	0.00	0.00	0.00
8,100.00	89.00	84.51	7,212.28	105.59	1,098.49	1,103.55	0.00	0.00	0.00
8,200.00	89.00	84.51	7,214.03	115.15	1,198.02	1,203.54	0.00	0.00	0.00
8,300.00	89.00	84.51	7,215.77	124.72	1,297.54	1,303.52	0.00	0.00	0.00
8,400.00	89.00	84.51	7,217.52	134.28	1,397.07	1,403.51	0.00	0.00	0.00
8,500.00	89.00	84.51	7,219.26	143.85	1,496.59	1,503.49	0.00	0.00	0.00
8,600.00	89.00	84.51	7,221.01	153.42	1,596.12	1,603.48	0.00	0.00	0.00
8,700.00	89.00	84.51	7,222.75	162.98	1,695.65	1,703.46	0.00	0.00	0.00
8,800.00	89.00	84.51	7,224.50	172.55	1,795.17	1,803.45	0.00	0.00	0.00
8,900.00	89.00	84.51	7,226.25	182.12	1,894.70	1,903.43	0.00	0.00	0.00
9,000.00	89.00	84.51	7,227.99	191.68	1,994.22	2,003.41	0.00	0.00	0.00
9,100.00	89.00	84.51	7,229.74	201.25	2,093.75	2,103.40	0.00	0.00	0.00
9,200.00	89.00	84.51	7,231.48	210.82	2,193.28	2,203.38	0.00	0.00	0.00
9,300.00	89.00	84.51	7,233.23	220.38	2,292.80	2,303.37	0.00	0.00	0.00
9,400.00	89.00	84.51	7,234.97	229.95	2,392.33	2,403.35	0.00	0.00	0.00
9,500.00	89.00	84.51	7,236.72	239.51	2,491.85	2,503.34	0.00	0.00	0.00
9,600.00	89.00	84.51	7,238.46	249.08	2,591.38	2,603.32	0.00	0.00	0.00
9,700.00	89.00	84.51	7,240.21	258.65	2,690.91	2,703.31	0.00	0.00	0.00
9,800.00	89.00	84.51	7,241.95	268.21	2,790.43	2,803.29	0.00	0.00	0.00
9,900.00	89.00	84.51	7,243.70	277.78	2,889.96	2,903.28	0.00	0.00	0.00
10,000.00	89.00	84.51	7,245.44	287.35	2,989.48	3,003.26	0.00	0.00	0.00
10,100.00	89.00	84.51	7,247.19	296.91	3,089.01	3,103.25	0.00	0.00	0.00
10,200.00	89.00	84.51	7,248.93	306.48	3,188.54	3,203.23	0.00	0.00	0.00
10,300.00	89.00	84.51	7,250.68	316.04	3,288.06	3,303.22	0.00	0.00	0.00
10,400.00	89.00	84.51	7,252.42	325.61	3,387.59	3,403.20	0.00	0.00	0.00



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Concoco '22' Federal Com #1
Project:	Eddy Co., New Mexico	TVD Reference:	WELL @ 3670.00ft (Original Well Elev)
Site:	Conoco '22' Federal Com #1	MD Reference:	WELL @ 3670.00ft (Original Well Elev)
Well:	Concoco '22' Federal Com #1	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14 1.0 Server DB

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.00	89.00	84.51	7,254.17	335.18	3,487.11	3,503.19	0.00	0.00	0.00
10,525.85	89.00	84.51	7,254.62	337.65	3,512.84	3,529.03	0.00	0.00	0.00

PBHL#1[C22FedCom1]

Targets

Target Name	hit/miss	target Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL#1[C22FedCom1]			0.00	0.00	7,254.62	337.65	3,512.84	694,533.17	626,710.17	32° 54' 32.307 N	104° 3' 18.548 W
- plan target											
- Point											

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,369.82	7,190.00	Lower Abo Dolomite	Dolomite	0.00	0.00
	7,278.00	Wolfcamp Lime	Limestone	0.00	0.00

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates	Comment
6,723.82	6,723.82	+N/-S (ft) 0.00 +E/-W (ft) 0.00	KOP - Build 12.0° / 100
7,465.48	7,201.21	+N/-S (ft) 44.89 +E/-W (ft) 466.98	EOC - Hold 89.0° Inc. :: 84.51° Azi

Checked By: _____ Approved By: _____ Date: _____

Hydrogen Sulfide Drilling Operations Plan

Cimarex Energy Co. of Colorado

Conoco 22 Federal Com No. 1

Unit F

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.

Hydrogen Sulfide Drilling Operations Plan

Cimarex Energy Co. of Colorado

Conoco 22 Federal Com No. 1

Unit F

Section 22

T16S R29E

Eddy 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 separator will be brought into service along with H₂S scavengers if necessary.

Surface Use Plan
Cimarex Energy Co. of Colorado
Conoco 22 Federal Com No. 1
Unit F 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 maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.

A. Exhibit "A" shows the proposed well site as staked.

B. From junction of US Hwy 82 and Co Rd 214 (Barnaval), go North 7.0 miles to bend; thence continue Northeast 0.7 miles to lease road. On lease road, go East 1.0 miles, then South 1.0 miles to old lease road. On old lease road, go Southeast 0.3 miles to proposed location.

2 PLANNED ACCESS ROADS: 1433.9' of existing on lease road will be upgraded.

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"

Surface Use Plan
Cimarex Energy Co. of Colorado
Conoco 22 Federal Com No. 1
Unit F Section 22
T16S R29E Eddy County, NM

- 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 disposed of in the reserve pit.
- 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. Remaining drilling fluids will be allowed to dry in the reserve pit until the pit is dry enough for breaking out. In the event that drillings fluids do not dry out in a reasonable time they will be hauled off by transports and be disposed of at a State approved disposal facility. Water produced during drilling will be put in reserve pit. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

8 ANCILLARY FACILITIES:

- A. No camps or airstrips to be constructed.

Surface Use Plan
Cimarex Energy Co. of Colorado
Conoco 22 Federal Com No. 1
Unit F Section 22
T16S R29E Eddy County, NM

9 WELL SITE LAYOUT

- A. Exhibit "D" shows location and rig layout.
- B. This exhibit indicates proposed location of reserve and trash pits; and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pit is proposed to be lined with PVC or polyethylene liner. The pit liner will be 12 mils thick. Pit liner will extend a minimum, 2'00" over the reserve pits dikes where the liner will be anchored down.
- D. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and 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 and reserve pit 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.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. 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 recountered 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.

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

Surface Use Plan
Cimarex Energy Co. of Colorado
Conoco 22 Federal Com No. 1
Unit F Section 22
T16S R29E Eddy County, NM

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 US Department of the Interior's Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. An Archaeological survey has been conducted on the location and proposed roads, and this report has been filed with the Bureau of Land Management in the Carlsbad BLM office.
- D. There are no know dwellings within 1 1/2 miles of this location.

12 OPERATOR'S REPRESENTATIVE:

Cimarex Energy Co. of Colorado
P.O. Box 140907
Irving, TX 75014
Office Phone: (972) 443-6489
Zeno Farris

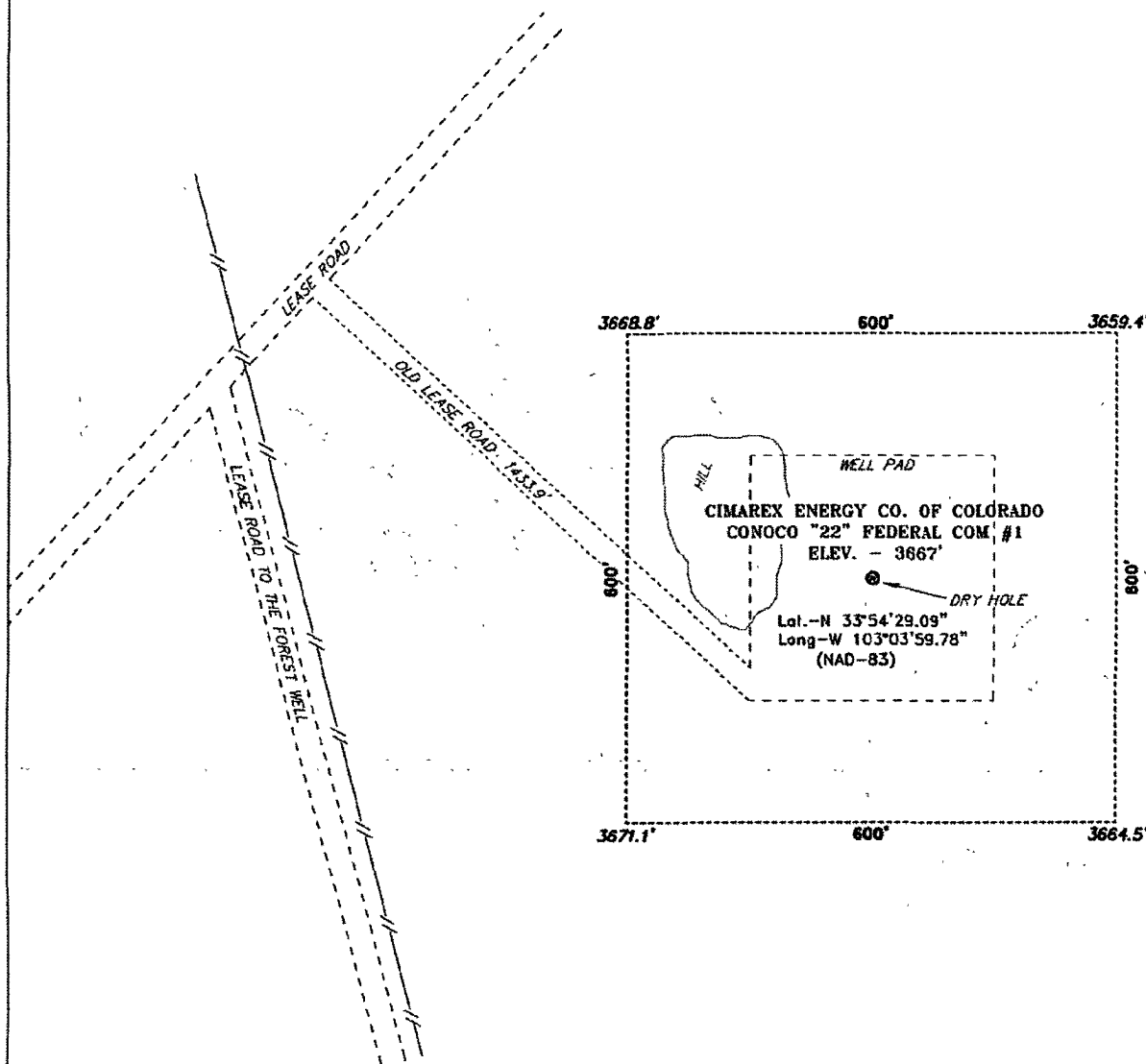
CERTIFICATION: I hereby certify that the statements and plans made in this APD are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Cimarex Energy Co. of Colorado and/or its contractors/subcontractors and is in conformity 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: Zeno Farris

DATE: August 7, 2007

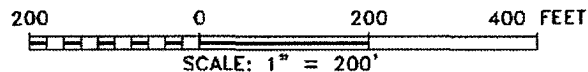
TITLE: Manager Operations Administration

SECTION 22, TOWNSHIP 16 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location.

FROM JUNCTION OF U.S. HWY 82 AND CO. RD. 214 (BARNAVAL), GO NORTH 7.0 MILES TO BEND, THENCE CONTINUE NORTHEAST 0.7 MILES TO LEASE ROAD, ON LEASE ROAD GO EAST 1.0 MILES THEN SOUTH 1.0 MILES TO OLD LEASE ROAD, ON OLD LEASE ROAD GO SOUTHEAST 0.3 MILES TO PROPOSED LOCATION.



BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 18381	Drawn By: J. SMALL
Date: 08-01-2007	Disk: JMS 18381W

CIMAREX ENERGY CO. OF COLORADO

REF: CONOCO '22" FEDERAL COM #1 / WELL PAD TOPO

THE CONOCO '22" FEDERAL COM #1 LOCATED 2303' FROM
THE NORTH LINE AND 1427' FROM THE WEST LINE OF
SECTION 22, TOWNSHIP 16 SOUTH, RANGE 29 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 08-01-2007	Sheet 1 of 1 Sheets
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VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 2 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,
(505) 361-2822

1. **Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard.**
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. When floor controls are required, (3M or Greater) 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

1. The 13-3/8 inch surface casing **is existing and is set at 432 feet and cemented to surface.**
2. The 8-5/8 inch intermediate casing **is existing and is set at 2690 feet and cemented to surface.**
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

4. 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 2 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.

Engineer on call phone (after hours): Carlsbad: (505) 706-2779

WWI 082807