

ATS-08-439
EA-08-1132

OCD-ARTESIA

AUG - 6 2008

OCD-ARTESIA

Form 3160-3
(April 2004)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

5. Lease Serial No.

LC-061638

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No

Dynamite 14 Federal Com No. 2

9. API Well No.

30-015- 36548

10. Field and Pool, or Exploratory

Abo Wildcat

11. Sec., T. R. M. or Blk. and Survey or Area

14-16S-29E

12. County or Parish

Eddy

13. State

NM

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Cimarex Energy Co. of Colorado

3a. Address

PO Box 140907; Irving, TX 75014

3b. Phone No. (include area code)

972-401-3111

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At Surface

990' FSL & 330' FEL

At proposed prod. Zone

660' FSL & 330' FWL

Horizontal Abo Test

14. Distance in miles and direction from nearest town or post office*

13 miles ESE of Lake Arthur

15. Distance from proposed*
location to nearest
property or lease line, ft
(Also to nearest drg. unit line if
any)

330'

16. No of acres in lease

1040

17. Spacing Unit dedicated to this well

S2S2 160

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

N/A

19. Proposed Depth

Pilot Hole 7650'

MD 11814'

TVD 7300'

20. BLM/BIA Bond No. on File

NM-2575

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

3730' GR

22. Approximate date work will start*

4/15/2008

23. Estimated duration

30-35 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:

- Well plat certified by a registered surveyor
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
- Operator Certification
- 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

03.12.08

Title

Manager Operations Administration

Approved By (Signature)

/s/ James Stovall

Name (Printed/Typed)

/s/ James Stovall

Date

AUG 02 2008

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

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.

CONDITIONS OF APPROVAL

Roswell Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

S

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other
AUG - 6 2008
2. Name of Operator
Cimarex Energy Co. of Colorado
OCD-ARTESIA
3a. Address
PO Box 140907; Irving, TX 75014-0907
3b. Phone No. (include area code)
972-401-3111
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL 990 FSL & 330 FEL BHL 660 FSL & 330 FWL
14-16S-29E 14-16S-29E

5. Lease Serial No.
LC-061638
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
Pending
8. Well Name and No.
Dynamite 14 Federal Com No. 2
9. API Well No.
30-015-
10. Field and Pool, or Exploratory Area
Abo Wildcat
11. County or Parish, State
Eddy County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>Change Access</u>
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	<u>Road</u>
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex has changed its access road route. No ROW required for new access road.

Please see attached revised plats.

ok c.d. 07/24/08

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Natalie Krueger
Signature

Title

Regulatory Analyst

Date

June 5, 2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ James Stovall

Title

FIELD MANAGER

Date

AUG 12 2008

Conditions of Approval, if any, are attached. Approval of this notice 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.

Office

CARLSBAD FIELD OFFICE

Title 18 U.S.C Section 1001, makes 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 reverse)

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

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

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

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

AUG 19 2008

OCD-ARTESIA AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		Abo Wildcat
Property Code	Property Name	Well Number
	DYNAMITE "14" FEDERAL COM	2
OGRID No.	Operator Name	Elevation
162683	CIMAREX ENERGY CO. OF COLORADO	3730'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16 S	29 E		990	SOUTH	330	EAST	EDDY

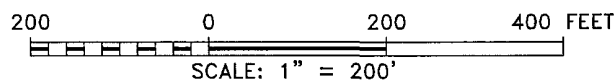
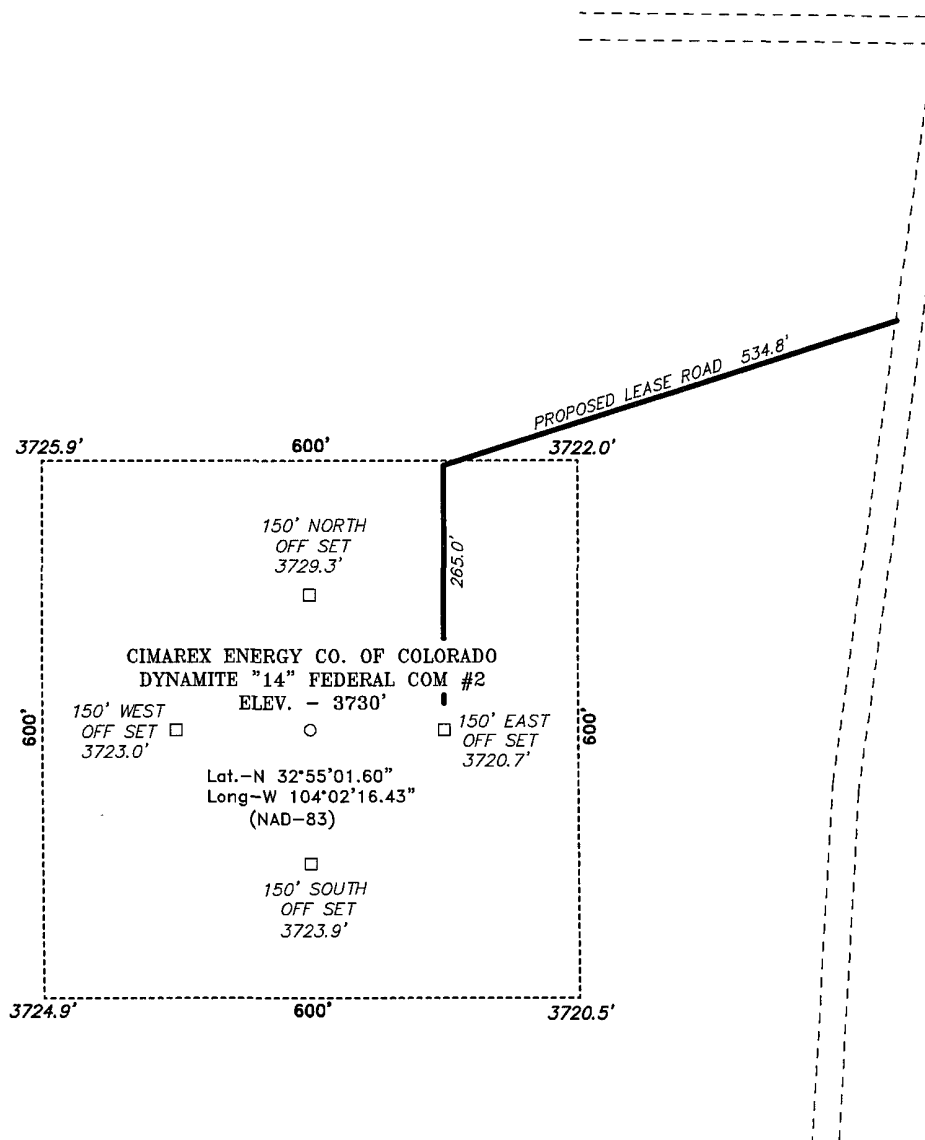
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	16 S	29 E		660	SOUTH	330	WEST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
160		P							

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

Dynamite 14 Federal Com No. 2 SHL 990 FSL & 330 FEL		Dynamite 14 Federal Com No. 2 BHL 660 FSL & 330 FWL		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. <u>Natalie Krueger</u> 08-18-08 Signature Date Natalie Krueger Printed Name
BOTTOM HOLE LOCATION Lat - N32°54'58.62" Long - W104°03'10.81" NMSPCE- N 697193.055 E 627361.335 (NAD-83)		SURFACE LOCATION Lat - N32°55'01.60" Long - W104°02'16.43" NMSPCE- N 697506.3 E 631995.7 (NAD-83)		
Dynamite 14 Federal Com No. 2 P.P. 990 FSL & 330 FEL				
LC-061638		LC-067610-A		
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. FEBRUARY 06 2008 Date Surveyed <u>GARY L. JONES</u> Signature Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS				

SECTION 14, TOWNSHIP 16 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM JUNCTION OF HAGERMAN CUTOFF AND MALLET,
GO WEST APPROX. 0.7 MILES TO LEASE ROAD, GO
NORTHWEST ON LEASE ROAD FOR 3.7 MILES TO
LEASE ROAD, ON LEASE ROAD GO WEST 0.3 MILES
TO LEASE ROAD, ON LEASE ROAD GO SOUTH
TURNING WEST FOR 0.4 MILES, THENCE TURN SOUTH
TO PROPOSED LEASE ROAD.

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

W.O. Number: 19126 Drawn By: J. SMALL

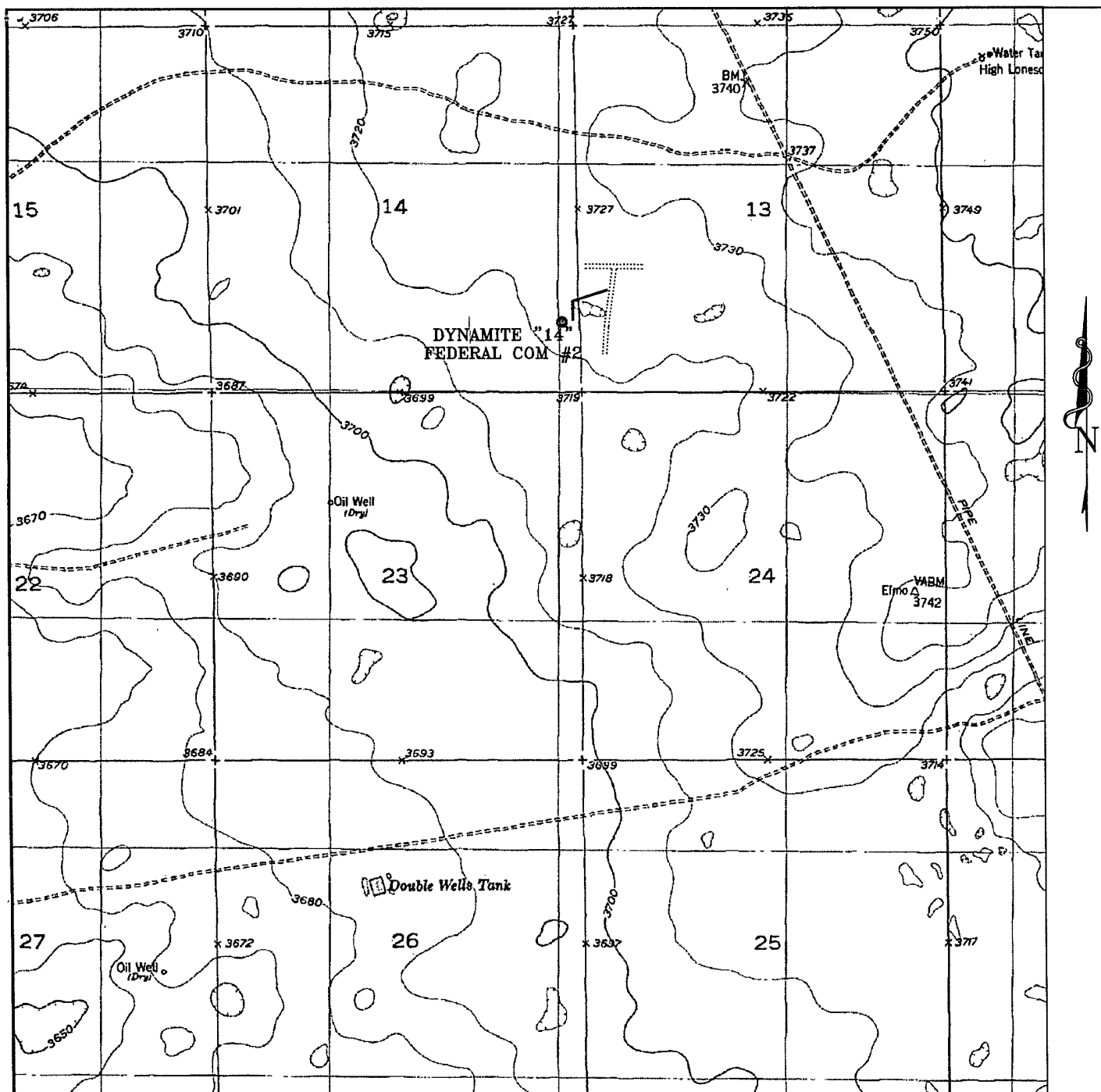
Date: 02-13-2008 Disk: JMS 19126W

CIMAREX ENERGY CO. OF COLORADO

REF: DYNAMITE "14" FEDERAL COM #2 / WELL PAD TOPO

THE DYNAMITE "14" FEDERAL COM #2 LOCATED 990'
FROM THE SOUTH LINE AND 330' FROM THE EAST LINE OF
SECTION 14, TOWNSHIP 16 SOUTH, RANGE 29 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 02-06-2008 Sheet 1 of 1 Sheets



DYNAMITE "14" FEDERAL COM #2
 Located 990' FSL and 330' FEL
 Section 14, Township 16 South, Range 29 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

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

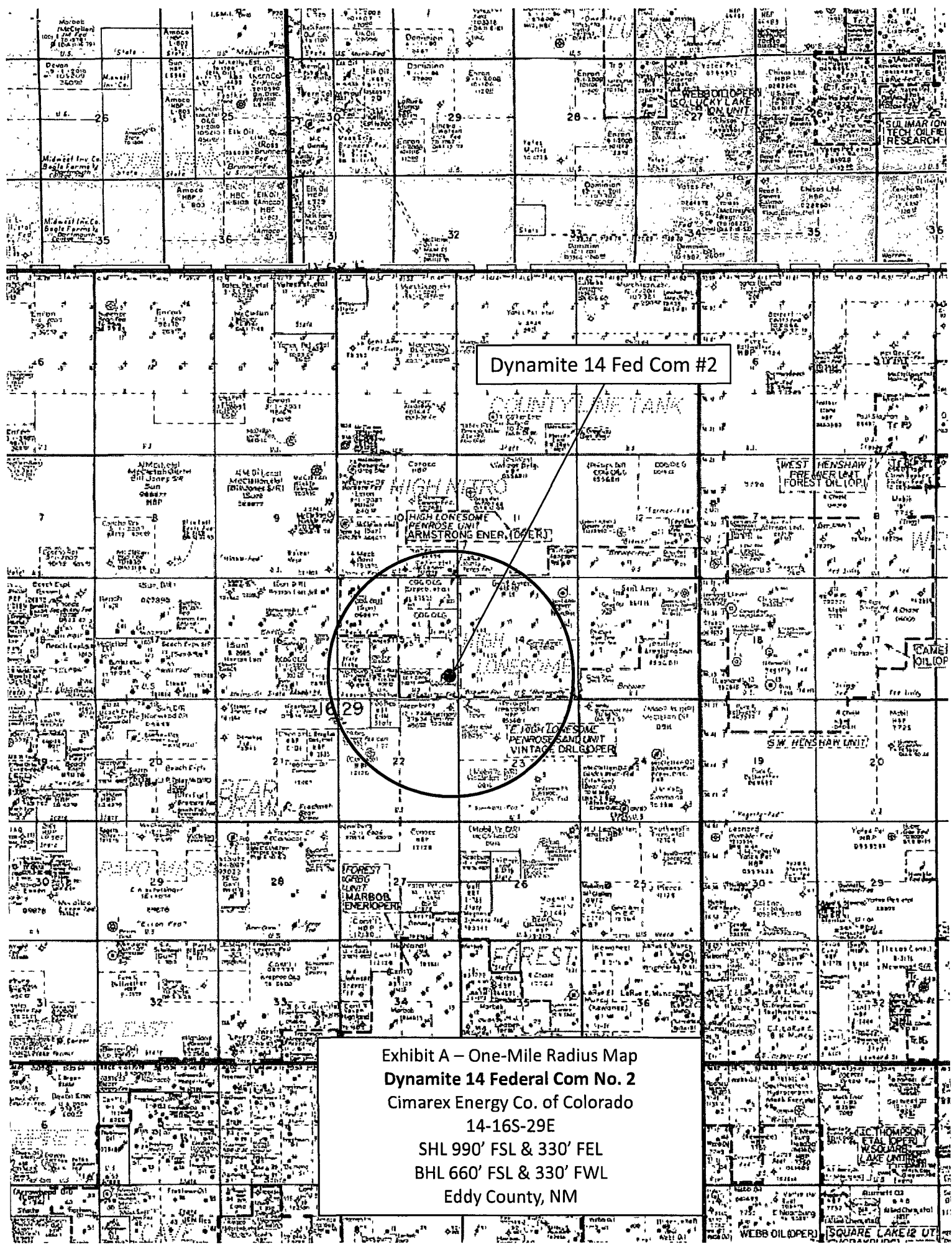
W.O. Number: JMS 19126T

Survey Date: 02-06-2008

Scale: 1" = 2000'

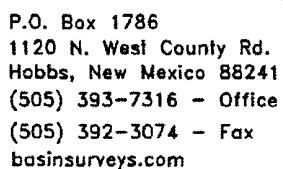
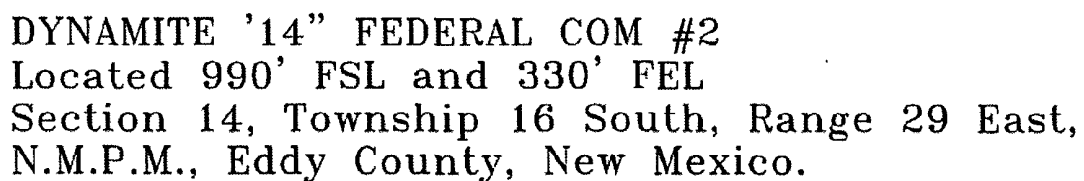
Date: 02-13-2008

CIMAREX
ENERGY CO.
OF COLORADO



Dynamite 14 Fed Com #2

Exhibit A – One-Mile Radius Map
Dynamite 14 Federal Com No. 2
Cimarex Energy Co. of Colorado
14-16S-29E
SHL 990' FSL & 330' FEL
BHL 660' FSL & 330' FWL
Eddy County, NM



Date: 02-13-2008

CIMAREX
ENERGY CO.
OF COLORADO

Exhibit B

Application to Drill
Cimarex Energy Co. of Colorado
Dynamite 14 Federal Com No.
Unit P, Section 14
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 990' FSL & 330' FEL
BHL 1980' FNL & 330' FEL
- 2 Elevation above sea level: 3730' 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: Pilot Hole 7650' MD 11814' TVD 7300'
- 6 Estimated tops of geological markers:

Queen	2,200'
San Andres	2,950'
Abo Shale	6,020'
Lower Abo Dolomite	7,240'
Wolfcamp	7,350'
- 7 Possible mineral bearing formation:

Abo	Oil	Primary
-----	-----	---------

8 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to ^{450'} 340'	8.4 - 8.6	28-29	May lose circ	Fresh water gel spud mud
^{450'} 340' to 2650'	10.0	28-29	May lose circ	Brine Water
2650' to 7650'	8.4 - 9.5	29-32	NC	Fresh water and brine, use hi-vis sweeps to keep hole clean
0' to MD 11814' TVD 7300'	8.4 - 9.5	29-33	NC	2% KCL

see COA

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

Drill pilot hole to 7650.' Set kick-off plug at 7045.' Kick off horizontal leg at 7059' and drill 6½ hole to 11814' MD, 7300' TVD. Run 4½" 11.6# P-110 LTC (500' BTC) Peak Systems Liner to TD, which will not require cementing.

Application to Drill
Cimarex Energy Co. of Colorado
Dynamite 14 Federal Com No.
Unit P, Section 14
T16S R29E, Eddy County, NM

9 Casing & Cementing Program:

Hole Size	Depth ⁴⁵⁰			Casing OD	Weight	Thread	Collar	Grade
17½"	0	to	340'	New 13¾"	48#	8-R	STC	H-40
12¾"	0	to	2650'	New 9¾"	40#	8-R	LTC	J/K-55
8¾"	0	to	7650'	New 7"	26#	8-R	LTC	P-110
6½"	0	to	MD 11814' TVD 7300'	New 4½"	11.6#	8-R	LTC/BTC	P-110

10 Cementing & Setting Depth:

SEE CO A	13 3/8"	Surface	Set	340'	of	13 3/8"	48#	H-40	STC			
			<u>Lead:</u> 300 sx Thixotropic/Premium Plus + 10# Gilsonite + 10# Cal-Seal + 1% CaCl + 0.125# Poly-e-flake (wt 14.2, yld 1.64)									
			<u>Tail:</u> 220 sx Premium Plus + 2% CaCl (wt 14.8, yld 1.35)									
			TOC Surface									
9 5/8"	Intermediate	Set	2650'	of	9 5/8"	40#	J/K-55	LTC				
<u>Lead:</u> 425 sx Interfill C + 0.125# flocele (wt 11.9, yld 2.45)												
<u>Tail:</u> 200 sx Prem Plus + 1% CaCl (wt 14.8, yld 1.33)												
TOC Surface												
7"	Production	Set	7650'	of	7"	26#	P-110	LTC				
1550 sx Super H + 0.5% Halad-344 + 0.4% CFR-3 + 1lbm/sk salt + 5 lb/sk Gilsonite + 0.125 lb/sk PolyEflake + 0.35% HR-7 (wt 13.0 ppg, yld 1.67 cf/sk)												
TOC 2300'												
4 1/2"	Liner	Set	11814'	TVD 7.	of	4 1/2"	11.6#	P-110	LTC/BTC			
No cement for Iso-Pak liner.												

Fresh water will be protected by setting 13¾" casing at 340' and cementing to Surface
Hydrocarbon zones will be protected by setting 9¾" casing at 2650' and cementing to Surface
and by setting 7" casing at 7650' and cementing to 2300'

Cimarex uses the following minimum safety factors:

Burst	Collapse	Tension
1.125	1.125	1.80

Application to Drill
Cimarex Energy Co. of Colorado
Dynamite 14 Federal Com No.
Unit P, Section 14
T16S R29E, Eddy County, NM

11 Pressure control Equipment:

Exhibit "E". A 13 $\frac{3}{8}$ " 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 nipped up casing and will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. 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 $\frac{3}{8}$ " 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 $\frac{3}{8}$ " casing to 1000 psi using rig pumps. The BOP will be tested to 5000 PSI by an independent service company.

12 Testing, Logging and Coring Program:

- A. Mud logging program: 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. 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 30-35 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15 Other Facets of Operations:

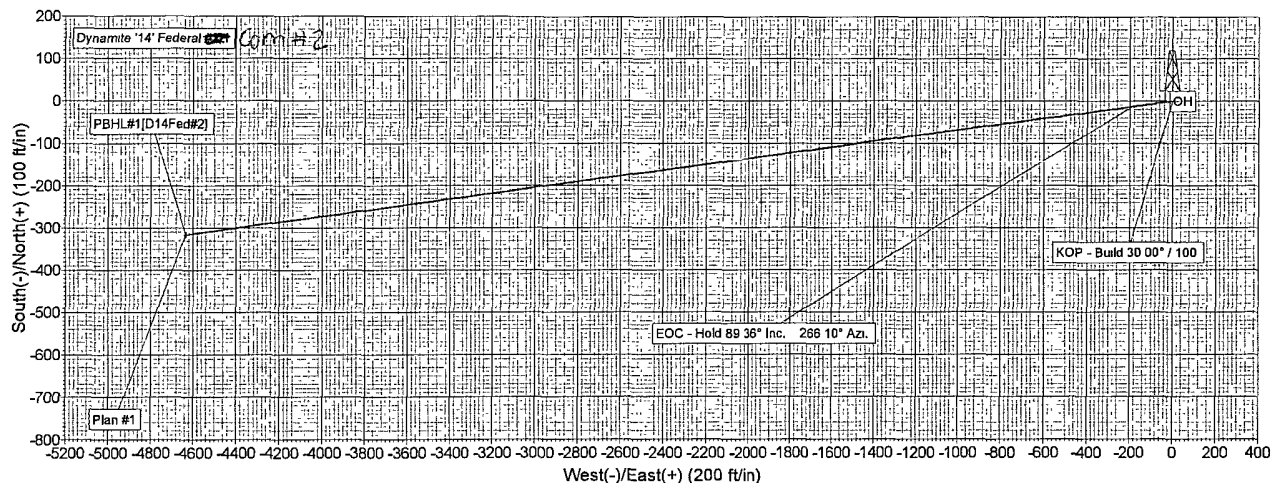
After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.

Abo pay will be perforated and stimulated.

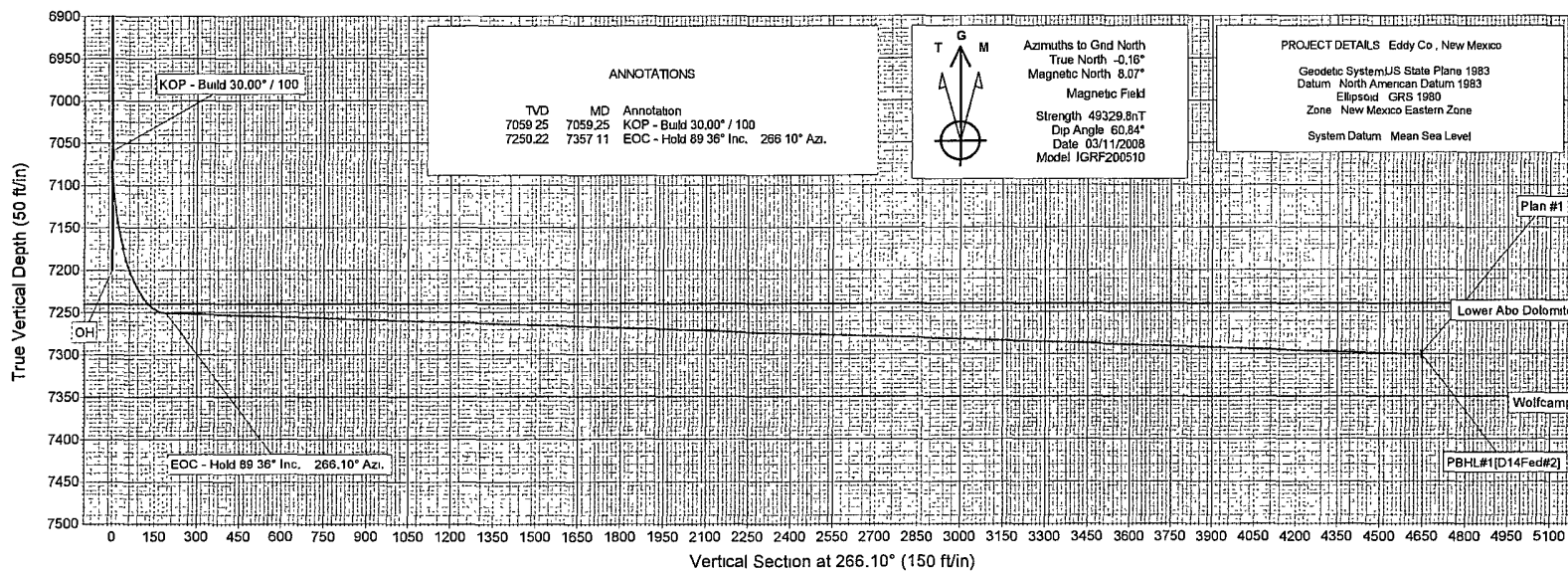
The proposed well will be tested and potential as **an oil well.**



Project Eddy Co., New Mexico
 Site Dynamite '14' Federal ~~222~~ *com # 2*
 Well Dynamite '14' Federal ~~222~~ *com # 2*
 Wellbore Lateral
 Plan Plan #1 (Dynamite '14' Federal ~~222~~ / Lateral)
com # 2



SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	7059.00	0.00	0.00	7059.00	0.00	0.00	0.00	0.00	0.00
2	7059.25	0.00	0.00	7059.25	0.00	0.00	0.00	0.00	0.00
3	7357.11	89.36	266.10	7250.22	-12.86	-188.41	30.00	266.10	188.85
4	11813.68	89.36	266.10	7300.00	-316.24	-4634.36	0.00	0.00	4645.14 PBHL#1[D14Fed#2]



com # 2
 Plan Plan #1 (Dynamite '14' Federal ~~222~~ / Lateral)
 Created By L.D. Burton Date March 11, 2008



Cimarex Energy Co., Inc.

Eddy Co., New Mexico

Dynamite '14' Federal ~~#21~~ Com #2

Dynamite '14' Federal ~~#21~~ Com #2

Lateral

Plan: Plan #1

Standard Survey Report

11 March, 2008





Black Viper Energy

Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Site Dynamite '14' Federal 228 <i>Com # 2</i>
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3750.00ft (Rig KB (Est.))
Site:	Dynamite '14' Federal 228 <i>Com # 2</i>	MD Reference:	Rig KB @ 3750.00ft (Rig KB (Est.))
Well:	Dynamite '14' Federal 228 <i>Com # 2</i>	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14.1.0 Server DB

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

Site:	Dynamite '14' Federal 228 <i>Com # 2</i>		
Site Position:		Northing:	697,509.30 ft
From:	Map	Easting:	631,995.70 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 55' 1.613 N
		Longitude:	104° 2' 16.449 W
		Grid Convergence:	0.16 °

Well:	Dynamite '14' Federal 228 <i>Com # 2</i>		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 55' 1.613 N
		Longitude:	104° 2' 16.449 W
		Ground Level:	3,730.00 ft

Wellbore:	Lateral				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	03/11/2008	8.23	60 84	49,330

Design:	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	7,059.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	266.10	

Survey Tool Program	Date: 03/11/2008				
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
7,059.00	11,813.68	Plan #1 (Lateral)	MWD	MWD - Standard	

Planned Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
7,059.00	0.00	0.00	7,059.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,059.25	0.00	0.00	7,059.25	0.00	0.00	0.00	0.00	0.00	0.00	
KOP - Build 30.00° / 100										
7,070.00	3.23	266.10	7,069.99	-0.02	-0.30	0.30	30.00	30.00	0.00	
7,080.00	6.23	266.10	7,079.96	-0.08	-1.12	1.13	30.00	30.00	0.00	
7,090.00	9.23	266.10	7,089.87	-0.17	-2.46	2.47	30.00	30.00	0.00	
7,100.00	12.23	266.10	7,099.69	-0.29	-4.32	4.33	30.00	30.00	0.00	
7,110.00	15.23	266.10	7,109.40	-0.46	-6.69	6.70	30.00	30.00	0.00	
7,120.00	18.23	266.10	7,118.98	-0.65	-9.56	9.58	30.00	30.00	0.00	
7,130.00	21.23	266.10	7,128.39	-0.88	-12.93	12.96	30.00	30.00	0.00	
7,140.00	24.23	266.10	7,137.62	-1.15	-16.78	16.82	30.00	30.00	0.00	
7,150.00	27.23	266.10	7,146.62	-1.44	-21.11	21.16	30.00	30.00	0.00	
7,160.00	30.23	266.10	7,155.39	-1.77	-25.91	25.97	30.00	30.00	0.00	



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Site Dynamite '14' Federal #24 Corn # 2
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3750.00ft (Rig KB (Est.))
Site:	Dynamite '14' Federal #24 Corn # 2	MD Reference:	Rig KB @ 3750.00ft (Rig KB (Est.))
Well:	Dynamite '14' Federal #24 Corn # 2	North Reference:	Grid
Wellbore:	Lateral	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)	
7,170.00	33.23	266.10	7,163.90	-2.13	-31.15	31.22	30.00	30.00	0.00	
7,180.00	36.23	266.10	7,172.11	-2.51	-36.83	36.92	30.00	30.00	0.00	
7,190.00	39.23	266.10	7,180.02	-2.93	-42.94	43.04	30.00	30.00	0.00	
7,200.00	42.23	266.10	7,187.60	-3.37	-49.45	49.56	30.00	30.00	0.00	
7,210.00	45.23	266.10	7,194.83	-3.84	-56.34	56.47	30.00	30.00	0.00	
7,220.00	48.23	266.10	7,201.68	-4.34	-63.60	63.75	30.00	30.00	0.00	
7,230.00	51.23	266.10	7,208.14	-4.86	-71.22	71.38	30.00	30.00	0.00	
7,240.00	54.23	266.10	7,214.20	-5.40	-79.15	79.34	30.00	30.00	0.00	
7,250.00	57.23	266.10	7,219.83	-5.96	-87.40	87.60	30.00	30.00	0.00	
7,260.00	60.23	266.10	7,225.02	-6.55	-95.92	96.15	30.00	30.00	0.00	
7,270.00	63.23	266.10	7,229.76	-7.15	-104.71	104.95	30.00	30.00	0.00	
7,280.00	66.23	266.10	7,234.03	-7.76	-113.73	113.99	30.00	30.00	0.00	
7,290.00	69.23	266.10	7,237.82	-8.39	-122.96	123.25	30.00	30.00	0.00	
7,296.45	71.16	266.10	7,240.00	-8.80	-129.01	129.31	30.00	30.00	0.00	
Lower Abo Dolomite										
7,300.00	72.23	266.10	7,241.12	-9.03	-132.38	132.69	30.00	30.00	0.00	
7,310.00	75.23	266.10	7,243.92	-9.69	-141.95	142.28	30.00	30.00	0.00	
7,320.00	78.23	266.10	7,246.21	-10.35	-151.66	152.02	30.00	30.00	0.00	
7,330.00	81.23	266.10	7,248.00	-11.02	-161.48	161.85	30.00	30.00	0.00	
7,340.00	84.23	266.10	7,249.26	-11.69	-171.37	171.77	30.00	30.00	0.00	
7,350.00	87.23	266.10	7,250.01	-12.37	-181.32	181.74	30.00	30.00	0.00	
7,357.11	89.36	266.10	7,250.22	-12.86	-188.41	188.85	30.00	30.00	0.00	
EOC - Hold 89.36° Inc. :: 266.10° Azi.										
7,400.00	89.36	266.10	7,250.70	-15.78	-231.20	231.74	0.00	0.00	0.00	
7,500.00	89.36	266.10	7,251.82	-22.58	-330.96	331.73	0.00	0.00	0.00	
7,600.00	89.36	266.10	7,252.93	-29.39	-430.72	431.72	0.00	0.00	0.00	
7,700.00	89.36	266.10	7,254.05	-36.20	-530.48	531.72	0.00	0.00	0.00	
7,800.00	89.36	266.10	7,255.17	-43.01	-630.25	631.71	0.00	0.00	0.00	
7,900.00	89.36	266.10	7,256.28	-49.82	-730.01	731.71	0.00	0.00	0.00	
8,000.00	89.36	266.10	7,257.40	-56.62	-829.77	831.70	0.00	0.00	0.00	
8,100.00	89.36	266.10	7,258.52	-63.43	-929.53	931.69	0.00	0.00	0.00	
8,200.00	89.36	266.10	7,259.64	-70.24	-1,029.29	1,031.69	0.00	0.00	0.00	
8,300.00	89.36	266.10	7,260.75	-77.05	-1,129.05	1,131.68	0.00	0.00	0.00	
8,400.00	89.36	266.10	7,261.87	-83.85	-1,228.82	1,231.67	0.00	0.00	0.00	
8,500.00	89.36	266.10	7,262.99	-90.66	-1,328.58	1,331.67	0.00	0.00	0.00	
8,600.00	89.36	266.10	7,264.10	-97.47	-1,428.34	1,431.66	0.00	0.00	0.00	
8,700.00	89.36	266.10	7,265.22	-104.28	-1,528.10	1,531.66	0.00	0.00	0.00	
8,800.00	89.36	266.10	7,266.34	-111.08	-1,627.86	1,631.65	0.00	0.00	0.00	
8,900.00	89.36	266.10	7,267.45	-117.89	-1,727.63	1,731.64	0.00	0.00	0.00	
9,000.00	89.36	266.10	7,268.57	-124.70	-1,827.39	1,831.64	0.00	0.00	0.00	
9,100.00	89.36	266.10	7,269.69	-131.51	-1,927.15	1,931.63	0.00	0.00	0.00	
9,200.00	89.36	266.10	7,270.81	-138.31	-2,026.91	2,031.62	0.00	0.00	0.00	
9,300.00	89.36	266.10	7,271.92	-145.12	-2,126.67	2,131.62	0.00	0.00	0.00	
9,400.00	89.36	266.10	7,273.04	-151.93	-2,226.43	2,231.61	0.00	0.00	0.00	
9,500.00	89.36	266.10	7,274.16	-158.74	-2,326.20	2,331.61	0.00	0.00	0.00	
9,600.00	89.36	266.10	7,275.27	-165.55	-2,425.96	2,431.60	0.00	0.00	0.00	
9,700.00	89.36	266.10	7,276.39	-172.35	-2,525.72	2,531.59	0.00	0.00	0.00	
9,800.00	89.36	266.10	7,277.51	-179.16	-2,625.48	2,631.59	0.00	0.00	0.00	
9,900.00	89.36	266.10	7,278.62	-185.97	-2,725.24	2,731.58	0.00	0.00	0.00	
10,000.00	89.36	266.10	7,279.74	-192.78	-2,825.00	2,831.57	0.00	0.00	0.00	
10,100.00	89.36	266.10	7,280.86	-199.58	-2,924.77	2,931.57	0.00	0.00	0.00	
10,200.00	89.36	266.10	7,281.98	-206.39	-3,024.53	3,031.56	0.00	0.00	0.00	
10,300.00	89.36	266.10	7,283.09	-213.20	-3,124.29	3,131.56	0.00	0.00	0.00	
10,400.00	89.36	266.10	7,284.21	-220.01	-3,224.05	3,231.55	0.00	0.00	0.00	



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Site Dynamite '14' Federal #24 <i>Com #2</i>
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3750.00ft (Rig KB (Est.))
Site:	Dynamite '14' Federal #24 <i>Com #2</i>	MD Reference:	Rig KB @ 3750.00ft (Rig KB (Est.))
Well:	Dynamite '14' Federal #24 <i>Com #2</i>	North Reference:	Grid
Wellbore Design:	Lateral Plan #1	Survey Calculation Method:	Minimum Curvature
		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	89.36	266.10	7,285.33	-226.81	-3,323.81	3,331.54	0.00	0.00	0.00
10,600.00	89.36	266.10	7,286.44	-233.62	-3,423.58	3,431.54	0.00	0.00	0.00
10,700.00	89.36	266.10	7,287.56	-240.43	-3,523.34	3,531.53	0.00	0.00	0.00
10,800.00	89.36	266.10	7,288.68	-247.24	-3,623.10	3,631.52	0.00	0.00	0.00
10,900.00	89.36	266.10	7,289.79	-254.04	-3,722.86	3,731.52	0.00	0.00	0.00
11,000.00	89.36	266.10	7,290.91	-260.85	-3,822.62	3,831.51	0.00	0.00	0.00
11,100.00	89.36	266.10	7,292.03	-267.66	-3,922.38	3,931.51	0.00	0.00	0.00
11,200.00	89.36	266.10	7,293.15	-274.47	-4,022.15	4,031.50	0.00	0.00	0.00
11,300.00	89.36	266.10	7,294.26	-281.28	-4,121.91	4,131.49	0.00	0.00	0.00
11,400.00	89.36	266.10	7,295.38	-288.08	-4,221.67	4,231.49	0.00	0.00	0.00
11,500.00	89.36	266.10	7,296.50	-294.89	-4,321.43	4,331.48	0.00	0.00	0.00
11,600.00	89.36	266.10	7,297.61	-301.70	-4,421.19	4,431.47	0.00	0.00	0.00
11,700.00	89.36	266.10	7,298.73	-308.51	-4,520.95	4,531.47	0.00	0.00	0.00
11,800.00	89.36	266.10	7,299.85	-315.31	-4,620.72	4,631.46	0.00	0.00	0.00
11,813.68	89.36	266.10	7,300.00	-316.24	-4,634.36	4,645.14	0.00	0.00	0.00
PBHL#1[D14Fed#2]									

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
PBHL#1[D14Fed#2]	- plan hits target - Point	0.00	0.00	7,300.00	-316.24	-4,634.36	697,193.06	627,361.33	32° 54' 58.609 N 104° 3' 10.827 W

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,296.45	6,020.00	Abo Shale		0.00	
	7,240.00	Lower Abo Dolomite		0.00	
	7,350.00	Wolfcamp		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
7,059.25	7,059.25	+N/-S (ft)	+E/-W (ft)	
7,357.11	7,250.22	0.00	0.00	KOP - Build 30.00° / 100
		-12.86	-188.41	EOC - Hold 89.36° Inc. :: 266.10° Azi.

Checked By: _____	Approved By: _____	Date: _____
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Dynamite 14 Fed Com #2 Lateral Plan #1

Cimarex Energy Co., Inc.
Dynamite '14' Federal Com #2 - Plan #1

Eddy Co., New Mexico
Dynamite '14' Federal Com #2
Your Ref:

Measured Dogleg Depth (ft)	Incl.	Azim.	Depth (ft)	Vertical Northings (ft)	Vertical Eastings (ft)	Section Rate (°/100ft)
7060.00		0.226	266.096	7060.00	0.00	0.00
0.00	0.00					
7070.00		3.226	266.096	7069.99	-0.02	-0.30
0.30	30.00					
7080.00		6.226	266.096	7079.96	-0.08	-1.12
1.13	30.00					
7090.00		9.226	266.096	7089.87	-0.17	-2.46
2.47	30.00					
7100.00		12.226	266.096	7099.69	-0.29	-4.32
4.33	30.00					
7110.00		15.226	266.096	7109.40	-0.46	-6.69
6.70	30.00					
7120.00		18.226	266.096	7118.98	-0.65	-9.56
9.58	30.00					
7130.00		21.226	266.096	7128.39	-0.88	-12.93
12.96	30.00					
7140.00		24.226	266.096	7137.62	-1.15	-16.78
16.82	30.00					
7150.00		27.226	266.096	7146.62	-1.44	-21.11
21.16	30.00					
7160.00		30.226	266.096	7155.39	-1.77	-25.91
25.97	30.00					
7170.00		33.226	266.096	7163.90	-2.13	-31.15
31.22	30.00					
7180.00		36.226	266.096	7172.11	-2.51	-36.83
36.92	30.00					
7190.00		39.226	266.096	7180.02	-2.93	-42.94
43.04	30.00					
7200.00		42.226	266.096	7187.60	-3.37	-49.45
49.56	30.00					
7210.00		45.226	266.096	7194.83	-3.84	-56.34
56.47	30.00					
7220.00		48.226	266.096	7201.68	-4.34	-63.60
63.75	30.00					
7230.00		51.226	266.096	7208.14	-4.86	-71.22
71.38	30.00					
7240.00		54.226	266.096	7214.20	-5.40	-79.15
79.34	30.00					
7250.00		57.226	266.096	7219.83	-5.96	-87.40
87.60	30.00					
7260.00		60.226	266.096	7225.02	-6.55	-95.92
96.15	30.00					
7270.00		63.226	266.096	7229.76	-7.15	-104.71
104.95	30.00					
7280.00		66.226	266.096	7234.03	-7.76	-113.73
113.99	30.00					
7290.00		69.226	266.096	7237.82	-8.39	-122.96

Dynamite 14 Fed Com #2 Lateral Plan #1						
123.25	30.00					
7300.00		72.226	266.096	7241.12	-9.03	-132.38
132.69	30.00					
7310.00		75.226	266.096	7243.92	-9.69	-141.95
142.28	30.00					
7320.00		78.226	266.096	7246.21	-10.35	-151.66
152.02	30.00					
7330.00		81.226	266.096	7248.00	-11.02	-161.48
161.85	30.00					
7340.00		84.226	266.096	7249.26	-11.69	-171.37
171.77	30.00					
7350.00		87.226	266.096	7250.01	-12.37	-181.32
181.74	30.00					
7360.00		89.360	266.096	7250.25	-13.05	-191.29
191.74	21.34					
7370.00		89.360	266.096	7250.36	-13.73	-201.27
201.74	0.00					
7380.00		89.360	266.096	7250.48	-14.42	-211.25
211.74	0.00					
7390.00		89.360	266.096	7250.59	-15.10	-221.22
221.74	0.00					
7400.00		89.360	266.096	7250.70	-15.78	-231.20
231.74	0.00					
7410.00		89.360	266.096	7250.81	-16.46	-241.18
241.74	0.00					
7420.00		89.360	266.096	7250.92	-17.14	-251.15
251.74	0.00					
7430.00		89.360	266.096	7251.03	-17.82	-261.13
261.73	0.00					
7440.00		89.360	266.096	7251.15	-18.50	-271.10
271.73	0.00					
7450.00		89.360	266.096	7251.26	-19.18	-281.08
281.73	0.00					
7460.00		89.360	266.096	7251.37	-19.86	-291.06
291.73	0.00					
7470.00		89.360	266.096	7251.48	-20.54	-301.03
301.73	0.00					
7480.00		89.360	266.096	7251.59	-21.22	-311.01
311.73	0.00					
7490.00		89.360	266.096	7251.71	-21.90	-320.98
321.73	0.00					
7500.00		89.360	266.096	7251.82	-22.58	-330.96
331.73	0.00					
7510.00		89.360	266.096	7251.93	-23.27	-340.94
341.73	0.00					
7520.00		89.360	266.096	7252.04	-23.95	-350.91
351.73	0.00					
7530.00		89.360	266.096	7252.15	-24.63	-360.89
361.73	0.00					
7540.00		89.360	266.096	7252.26	-25.31	-370.87
371.73	0.00					
7550.00		89.360	266.096	7252.38	-25.99	-380.84
381.73	0.00					
7560.00		89.360	266.096	7252.49	-26.67	-390.82
391.73	0.00					
7570.00		89.360	266.096	7252.60	-27.35	-400.79
401.73	0.00					
7580.00		89.360	266.096	7252.71	-28.03	-410.77
411.73	0.00					
7590.00		89.360	266.096	7252.82	-28.71	-420.75
421.72	0.00					
7600.00		89.360	266.096	7252.93	-29.39	-430.72
431.72	0.00					

Dynamite 14 Fed Com #2 Lateral Plan #1						
7610.00		89.360	266.096	7253.05	-30.07	-440.70
441.72	0.00					
7620.00		89.360	266.096	7253.16	-30.75	-450.67
451.72	0.00					
7630.00		89.360	266.096	7253.27	-31.43	-460.65
461.72	0.00					
7640.00		89.360	266.096	7253.38	-32.12	-470.63
471.72	0.00					
7650.00		89.360	266.096	7253.49	-32.80	-480.60
481.72	0.00					
7660.00		89.360	266.096	7253.60	-33.48	-490.58
491.72	0.00					
7670.00		89.360	266.096	7253.72	-34.16	-500.56
501.72	0.00					
7680.00		89.360	266.096	7253.83	-34.84	-510.53
511.72	0.00					
7690.00		89.360	266.096	7253.94	-35.52	-520.51
521.72	0.00					
7700.00		89.360	266.096	7254.05	-36.20	-530.48
531.72	0.00					
7710.00		89.360	266.096	7254.16	-36.88	-540.46
541.72	0.00					
7720.00		89.360	266.096	7254.27	-37.56	-550.44
551.72	0.00					
7730.00		89.360	266.096	7254.39	-38.24	-560.41
561.72	0.00					
7740.00		89.360	266.096	7254.50	-38.92	-570.39
571.72	0.00					
7750.00		89.360	266.096	7254.61	-39.60	-580.37
581.71	0.00					
7760.00		89.360	266.096	7254.72	-40.28	-590.34
591.71	0.00					
7770.00		89.360	266.096	7254.83	-40.97	-600.32
601.71	0.00					
7780.00		89.360	266.096	7254.94	-41.65	-610.29
611.71	0.00					
7790.00		89.360	266.096	7255.06	-42.33	-620.27
621.71	0.00					
7800.00		89.360	266.096	7255.17	-43.01	-630.25
631.71	0.00					
7810.00		89.360	266.096	7255.28	-43.69	-640.22
641.71	0.00					
7820.00		89.360	266.096	7255.39	-44.37	-650.20
651.71	0.00					
7830.00		89.360	266.096	7255.50	-45.05	-660.17
661.71	0.00					
7840.00		89.360	266.096	7255.61	-45.73	-670.15
671.71	0.00					
7850.00		89.360	266.096	7255.73	-46.41	-680.13
681.71	0.00					
7860.00		89.360	266.096	7255.84	-47.09	-690.10
691.71	0.00					
7870.00		89.360	266.096	7255.95	-47.77	-700.08
701.71	0.00					
7880.00		89.360	266.096	7256.06	-48.45	-710.06
711.71	0.00					
7890.00		89.360	266.096	7256.17	-49.13	-720.03
721.71	0.00					
7900.00		89.360	266.096	7256.28	-49.82	-730.01
731.71	0.00					
7910.00		89.360	266.096	7256.40	-50.50	-739.98
741.70	0.00					
7920.00		89.360	266.096	7256.51	-51.18	-749.96

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751.70	0.00					
7930.00		89.360	266.096	7256.62	-51.86	-759.94
761.70	0.00					
7940.00		89.360	266.096	7256.73	-52.54	-769.91
771.70	0.00					
7950.00		89.360	266.096	7256.84	-53.22	-779.89
781.70	0.00					
7960.00		89.360	266.096	7256.95	-53.90	-789.86
791.70	0.00					
7970.00		89.360	266.096	7257.07	-54.58	-799.84
801.70	0.00					
7980.00		89.360	266.096	7257.18	-55.26	-809.82
811.70	0.00					
7990.00		89.360	266.096	7257.29	-55.94	-819.79
821.70	0.00					
8000.00		89.360	266.096	7257.40	-56.62	-829.77
831.70	0.00					
8010.00		89.360	266.096	7257.51	-57.30	-839.75
841.70	0.00					
8020.00		89.360	266.096	7257.63	-57.98	-849.72
851.70	0.00					
8030.00		89.360	266.096	7257.74	-58.67	-859.70
861.70	0.00					
8040.00		89.360	266.096	7257.85	-59.35	-869.67
871.70	0.00					
8050.00		89.360	266.096	7257.96	-60.03	-879.65
881.70	0.00					
8060.00		89.360	266.096	7258.07	-60.71	-889.63
891.70	0.00					
8070.00		89.360	266.096	7258.18	-61.39	-899.60
901.69	0.00					
8080.00		89.360	266.096	7258.30	-62.07	-909.58
911.69	0.00					
8090.00		89.360	266.096	7258.41	-62.75	-919.56
921.69	0.00					
8100.00		89.360	266.096	7258.52	-63.43	-929.53
931.69	0.00					
8110.00		89.360	266.096	7258.63	-64.11	-939.51
941.69	0.00					
8120.00		89.360	266.096	7258.74	-64.79	-949.48
951.69	0.00					
8130.00		89.360	266.096	7258.85	-65.47	-959.46
961.69	0.00					
8140.00		89.360	266.096	7258.97	-66.15	-969.44
971.69	0.00					
8150.00		89.360	266.096	7259.08	-66.83	-979.41
981.69	0.00					
8160.00		89.360	266.096	7259.19	-67.52	-989.39
991.69	0.00					
8170.00		89.360	266.096	7259.30	-68.20	-999.36
1001.69	0.00					
8180.00		89.360	266.096	7259.41	-68.88	-1009.34
1011.69	0.00					
8190.00		89.360	266.096	7259.52	-69.56	-1019.32
1021.69	0.00					
8200.00		89.360	266.096	7259.64	-70.24	-1029.29
1031.69	0.00					
8210.00		89.360	266.096	7259.75	-70.92	-1039.27
1041.69	0.00					
8220.00		89.360	266.096	7259.86	-71.60	-1049.25
1051.69	0.00					
8230.00		89.360	266.096	7259.97	-72.28	-1059.22
1061.69	0.00					

		Dynamite 14	Fed Com #2	Lateral	Plan #1	
8240.00		89.360	266.096	7260.08	-72.96	-1069.20
1071.68	0.00					
8250.00		89.360	266.096	7260.19	-73.64	-1079.17
1081.68	0.00					
8260.00		89.360	266.096	7260.31	-74.32	-1089.15
1091.68	0.00					
8270.00		89.360	266.096	7260.42	-75.00	-1099.13
1101.68	0.00					
8280.00		89.360	266.096	7260.53	-75.68	-1109.10
1111.68	0.00					
8290.00		89.360	266.096	7260.64	-76.36	-1119.08
1121.68	0.00					
8300.00		89.360	266.096	7260.75	-77.05	-1129.05
1131.68	0.00					
8310.00		89.360	266.096	7260.86	-77.73	-1139.03
1141.68	0.00					
8320.00		89.360	266.096	7260.98	-78.41	-1149.01
1151.68	0.00					
8330.00		89.360	266.096	7261.09	-79.09	-1158.98
1161.68	0.00					
8340.00		89.360	266.096	7261.20	-79.77	-1168.96
1171.68	0.00					
8350.00		89.360	266.096	7261.31	-80.45	-1178.94
1181.68	0.00					
8360.00		89.360	266.096	7261.42	-81.13	-1188.91
1191.68	0.00					
8370.00		89.360	266.096	7261.53	-81.81	-1198.89
1201.68	0.00					
8380.00		89.360	266.096	7261.65	-82.49	-1208.86
1211.68	0.00					
8390.00		89.360	266.096	7261.76	-83.17	-1218.84
1221.68	0.00					
8400.00		89.360	266.096	7261.87	-83.85	-1228.82
1231.67	0.00					
8410.00		89.360	266.096	7261.98	-84.53	-1238.79
1241.67	0.00					
8420.00		89.360	266.096	7262.09	-85.21	-1248.77
1251.67	0.00					
8430.00		89.360	266.096	7262.20	-85.90	-1258.75
1261.67	0.00					
8440.00		89.360	266.096	7262.32	-86.58	-1268.72
1271.67	0.00					
8450.00		89.360	266.096	7262.43	-87.26	-1278.70
1281.67	0.00					
8460.00		89.360	266.096	7262.54	-87.94	-1288.67
1291.67	0.00					
8470.00		89.360	266.096	7262.65	-88.62	-1298.65
1301.67	0.00					
8480.00		89.360	266.096	7262.76	-89.30	-1308.63
1311.67	0.00					
8490.00		89.360	266.096	7262.87	-89.98	-1318.60
1321.67	0.00					
8500.00		89.360	266.096	7262.99	-90.66	-1328.58
1331.67	0.00					
8510.00		89.360	266.096	7263.10	-91.34	-1338.55
1341.67	0.00					
8520.00		89.360	266.096	7263.21	-92.02	-1348.53
1351.67	0.00					
8530.00		89.360	266.096	7263.32	-92.70	-1358.51
1361.67	0.00					
8540.00		89.360	266.096	7263.43	-93.38	-1368.48
1371.67	0.00					
8550.00		89.360	266.096	7263.55	-94.06	-1378.46

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1381.67	0.00					
8560.00		89.360	266.096	7263.66	-94.75	-1388.44
1391.66	0.00					
8570.00		89.360	266.096	7263.77	-95.43	-1398.41
1401.66	0.00					
8580.00		89.360	266.096	7263.88	-96.11	-1408.39
1411.66	0.00					
8590.00		89.360	266.096	7263.99	-96.79	-1418.36
1421.66	0.00					
8600.00		89.360	266.096	7264.10	-97.47	-1428.34
1431.66	0.00					
8610.00		89.360	266.096	7264.22	-98.15	-1438.32
1441.66	0.00					
8620.00		89.360	266.096	7264.33	-98.83	-1448.29
1451.66	0.00					
8630.00		89.360	266.096	7264.44	-99.51	-1458.27
1461.66	0.00					
8640.00		89.360	266.096	7264.55	-100.19	-1468.24
1471.66	0.00					
8650.00		89.360	266.096	7264.66	-100.87	-1478.22
1481.66	0.00					
8660.00		89.360	266.096	7264.77	-101.55	-1488.20
1491.66	0.00					
8670.00		89.360	266.096	7264.89	-102.23	-1498.17
1501.66	0.00					
8680.00		89.360	266.096	7265.00	-102.91	-1508.15
1511.66	0.00					
8690.00		89.360	266.096	7265.11	-103.60	-1518.13
1521.66	0.00					
8700.00		89.360	266.096	7265.22	-104.28	-1528.10
1531.66	0.00					
8710.00		89.360	266.096	7265.33	-104.96	-1538.08
1541.66	0.00					
8720.00		89.360	266.096	7265.44	-105.64	-1548.05
1551.65	0.00					
8730.00		89.360	266.096	7265.56	-106.32	-1558.03
1561.65	0.00					
8740.00		89.360	266.096	7265.67	-107.00	-1568.01
1571.65	0.00					
8750.00		89.360	266.096	7265.78	-107.68	-1577.98
1581.65	0.00					
8760.00		89.360	266.096	7265.89	-108.36	-1587.96
1591.65	0.00					
8770.00		89.360	266.096	7266.00	-109.04	-1597.94
1601.65	0.00					
8780.00		89.360	266.096	7266.11	-109.72	-1607.91
1611.65	0.00					
8790.00		89.360	266.096	7266.23	-110.40	-1617.89
1621.65	0.00					
8800.00		89.360	266.096	7266.34	-111.08	-1627.86
1631.65	0.00					
8810.00		89.360	266.096	7266.45	-111.76	-1637.84
1641.65	0.00					
8820.00		89.360	266.096	7266.56	-112.45	-1647.82
1651.65	0.00					
8830.00		89.360	266.096	7266.67	-113.13	-1657.79
1661.65	0.00					
8840.00		89.360	266.096	7266.78	-113.81	-1667.77
1671.65	0.00					
8850.00		89.360	266.096	7266.90	-114.49	-1677.74
1681.65	0.00					
8860.00		89.360	266.096	7267.01	-115.17	-1687.72
1691.65	0.00					

		Dynamite 14	Fed Com #2	Lateral	Plan #1	
8870.00		89.360	266.096	7267.12	-115.85	-1697.70
1701.65	0.00					
8880.00		89.360	266.096	7267.23	-116.53	-1707.67
1711.64	0.00					
8890.00		89.360	266.096	7267.34	-117.21	-1717.65
1721.64	0.00					
8900.00		89.360	266.096	7267.45	-117.89	-1727.63
1731.64	0.00					
8910.00		89.360	266.096	7267.57	-118.57	-1737.60
1741.64	0.00					
8920.00		89.360	266.096	7267.68	-119.25	-1747.58
1751.64	0.00					
8930.00		89.360	266.096	7267.79	-119.93	-1757.55
1761.64	0.00					
8940.00		89.360	266.096	7267.90	-120.61	-1767.53
1771.64	0.00					
8950.00		89.360	266.096	7268.01	-121.30	-1777.51
1781.64	0.00					
8960.00		89.360	266.096	7268.12	-121.98	-1787.48
1791.64	0.00					
8970.00		89.360	266.096	7268.24	-122.66	-1797.46
1801.64	0.00					
8980.00		89.360	266.096	7268.35	-123.34	-1807.43
1811.64	0.00					
8990.00		89.360	266.096	7268.46	-124.02	-1817.41
1821.64	0.00					
9000.00		89.360	266.096	7268.57	-124.70	-1827.39
1831.64	0.00					
9010.00		89.360	266.096	7268.68	-125.38	-1837.36
1841.64	0.00					
9020.00		89.360	266.096	7268.79	-126.06	-1847.34
1851.64	0.00					
9030.00		89.360	266.096	7268.91	-126.74	-1857.32
1861.64	0.00					
9040.00		89.360	266.096	7269.02	-127.42	-1867.29
1871.63	0.00					
9050.00		89.360	266.096	7269.13	-128.10	-1877.27
1881.63	0.00					
9060.00		89.360	266.096	7269.24	-128.78	-1887.24
1891.63	0.00					
9070.00		89.360	266.096	7269.35	-129.46	-1897.22
1901.63	0.00					
9080.00		89.360	266.096	7269.47	-130.15	-1907.20
1911.63	0.00					
9090.00		89.360	266.096	7269.58	-130.83	-1917.17
1921.63	0.00					
9100.00		89.360	266.096	7269.69	-131.51	-1927.15
1931.63	0.00					
9110.00		89.360	266.096	7269.80	-132.19	-1937.13
1941.63	0.00					
9120.00		89.360	266.096	7269.91	-132.87	-1947.10
1951.63	0.00					
9130.00		89.360	266.096	7270.02	-133.55	-1957.08
1961.63	0.00					
9140.00		89.360	266.096	7270.14	-134.23	-1967.05
1971.63	0.00					
9150.00		89.360	266.096	7270.25	-134.91	-1977.03
1981.63	0.00					
9160.00		89.360	266.096	7270.36	-135.59	-1987.01
1991.63	0.00					
9170.00		89.360	266.096	7270.47	-136.27	-1996.98
2001.63	0.00					
9180.00		89.360	266.096	7270.58	-136.95	-2006.96

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2011.63	0.00					
9190.00		89.360	266.096	7270.69	-137.63	-2016.93
2021.63	0.00					
9200.00		89.360	266.096	7270.81	-138.31	-2026.91
2031.62	0.00					
9210.00		89.360	266.096	7270.92	-139.00	-2036.89
2041.62	0.00					
9220.00		89.360	266.096	7271.03	-139.68	-2046.86
2051.62	0.00					
9230.00		89.360	266.096	7271.14	-140.36	-2056.84
2061.62	0.00					
9240.00		89.360	266.096	7271.25	-141.04	-2066.82
2071.62	0.00					
9250.00		89.360	266.096	7271.36	-141.72	-2076.79
2081.62	0.00					
9260.00		89.360	266.096	7271.48	-142.40	-2086.77
2091.62	0.00					
9270.00		89.360	266.096	7271.59	-143.08	-2096.74
2101.62	0.00					
9280.00		89.360	266.096	7271.70	-143.76	-2106.72
2111.62	0.00					
9290.00		89.360	266.096	7271.81	-144.44	-2116.70
2121.62	0.00					
9300.00		89.360	266.096	7271.92	-145.12	-2126.67
2131.62	0.00					
9310.00		89.360	266.096	7272.03	-145.80	-2136.65
2141.62	0.00					
9320.00		89.360	266.096	7272.15	-146.48	-2146.62
2151.62	0.00					
9330.00		89.360	266.096	7272.26	-147.16	-2156.60
2161.62	0.00					
9340.00		89.360	266.096	7272.37	-147.85	-2166.58
2171.62	0.00					
9350.00		89.360	266.096	7272.48	-148.53	-2176.55
2181.62	0.00					
9360.00		89.360	266.096	7272.59	-149.21	-2186.53
2191.61	0.00					
9370.00		89.360	266.096	7272.70	-149.89	-2196.51
2201.61	0.00					
9380.00		89.360	266.096	7272.82	-150.57	-2206.48
2211.61	0.00					
9390.00		89.360	266.096	7272.93	-151.25	-2216.46
2221.61	0.00					
9400.00		89.360	266.096	7273.04	-151.93	-2226.43
2231.61	0.00					
9410.00		89.360	266.096	7273.15	-152.61	-2236.41
2241.61	0.00					
9420.00		89.360	266.096	7273.26	-153.29	-2246.39
2251.61	0.00					
9430.00		89.360	266.096	7273.37	-153.97	-2256.36
2261.61	0.00					
9440.00		89.360	266.096	7273.49	-154.65	-2266.34
2271.61	0.00					
9450.00		89.360	266.096	7273.60	-155.33	-2276.32
2281.61	0.00					
9460.00		89.360	266.096	7273.71	-156.01	-2286.29
2291.61	0.00					
9470.00		89.360	266.096	7273.82	-156.70	-2296.27
2301.61	0.00					
9480.00		89.360	266.096	7273.93	-157.38	-2306.24
2311.61	0.00					
9490.00		89.360	266.096	7274.04	-158.06	-2316.22
2321.61	0.00					

		Dynamite 14 Fed Com #2 Lateral Plan #1			
9500.00		89.360	266.096	7274.16	-158.74 -2326.20
2331.61	0.00				
9510.00		89.360	266.096	7274.27	-159.42 -2336.17
2341.61	0.00				
9520.00		89.360	266.096	7274.38	-160.10 -2346.15
2351.60	0.00				
9530.00		89.360	266.096	7274.49	-160.78 -2356.12
2361.60	0.00				
9540.00		89.360	266.096	7274.60	-161.46 -2366.10
2371.60	0.00				
9550.00		89.360	266.096	7274.71	-162.14 -2376.08
2381.60	0.00				
9560.00		89.360	266.096	7274.83	-162.82 -2386.05
2391.60	0.00				
9570.00		89.360	266.096	7274.94	-163.50 -2396.03
2401.60	0.00				
9580.00		89.360	266.096	7275.05	-164.18 -2406.01
2411.60	0.00				
9590.00		89.360	266.096	7275.16	-164.86 -2415.98
2421.60	0.00				
9600.00		89.360	266.096	7275.27	-165.55 -2425.96
2431.60	0.00				
9610.00		89.360	266.096	7275.39	-166.23 -2435.93
2441.60	0.00				
9620.00		89.360	266.096	7275.50	-166.91 -2445.91
2451.60	0.00				
9630.00		89.360	266.096	7275.61	-167.59 -2455.89
2461.60	0.00				
9640.00		89.360	266.096	7275.72	-168.27 -2465.86
2471.60	0.00				
9650.00		89.360	266.096	7275.83	-168.95 -2475.84
2481.60	0.00				
9660.00		89.360	266.096	7275.94	-169.63 -2485.81
2491.60	0.00				
9670.00		89.360	266.096	7276.06	-170.31 -2495.79
2501.60	0.00				
9680.00		89.360	266.096	7276.17	-170.99 -2505.77
2511.59	0.00				
9690.00		89.360	266.096	7276.28	-171.67 -2515.74
2521.59	0.00				
9700.00		89.360	266.096	7276.39	-172.35 -2525.72
2531.59	0.00				
9710.00		89.360	266.096	7276.50	-173.03 -2535.70
2541.59	0.00				
9720.00		89.360	266.096	7276.61	-173.71 -2545.67
2551.59	0.00				
9730.00		89.360	266.096	7276.73	-174.40 -2555.65
2561.59	0.00				
9740.00		89.360	266.096	7276.84	-175.08 -2565.62
2571.59	0.00				
9750.00		89.360	266.096	7276.95	-175.76 -2575.60
2581.59	0.00				
9760.00		89.360	266.096	7277.06	-176.44 -2585.58
2591.59	0.00				
9770.00		89.360	266.096	7277.17	-177.12 -2595.55
2601.59	0.00				
9780.00		89.360	266.096	7277.28	-177.80 -2605.53
2611.59	0.00				
9790.00		89.360	266.096	7277.40	-178.48 -2615.51
2621.59	0.00				
9800.00		89.360	266.096	7277.51	-179.16 -2625.48
2631.59	0.00				
9810.00		89.360	266.096	7277.62	-179.84 -2635.46

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2641.59	0.00					
9820.00		89.360	266.096	7277.73	-180.52	-2645.43
2651.59	0.00					
9830.00		89.360	266.096	7277.84	-181.20	-2655.41
2661.59	0.00					
9840.00		89.360	266.096	7277.95	-181.88	-2665.39
2671.58	0.00					
9850.00		89.360	266.096	7278.07	-182.56	-2675.36
2681.58	0.00					
9860.00		89.360	266.096	7278.18	-183.25	-2685.34
2691.58	0.00					
9870.00		89.360	266.096	7278.29	-183.93	-2695.31
2701.58	0.00					
9880.00		89.360	266.096	7278.40	-184.61	-2705.29
2711.58	0.00					
9890.00		89.360	266.096	7278.51	-185.29	-2715.27
2721.58	0.00					
9900.00		89.360	266.096	7278.62	-185.97	-2725.24
2731.58	0.00					
9910.00		89.360	266.096	7278.74	-186.65	-2735.22
2741.58	0.00					
9920.00		89.360	266.096	7278.85	-187.33	-2745.20
2751.58	0.00					
9930.00		89.360	266.096	7278.96	-188.01	-2755.17
2761.58	0.00					
9940.00		89.360	266.096	7279.07	-188.69	-2765.15
2771.58	0.00					
9950.00		89.360	266.096	7279.18	-189.37	-2775.12
2781.58	0.00					
9960.00		89.360	266.096	7279.29	-190.05	-2785.10
2791.58	0.00					
9970.00		89.360	266.096	7279.41	-190.73	-2795.08
2801.58	0.00					
9980.00		89.360	266.096	7279.52	-191.41	-2805.05
2811.58	0.00					
9990.00		89.360	266.096	7279.63	-192.10	-2815.03
2821.58	0.00					
10000.00		89.360	266.096	7279.74	-192.78	-2825.00
2831.57	0.00					
10010.00		89.360	266.096	7279.85	-193.46	-2834.98
2841.57	0.00					
10020.00		89.360	266.096	7279.96	-194.14	-2844.96
2851.57	0.00					
10030.00		89.360	266.096	7280.08	-194.82	-2854.93
2861.57	0.00					
10040.00		89.360	266.096	7280.19	-195.50	-2864.91
2871.57	0.00					
10050.00		89.360	266.096	7280.30	-196.18	-2874.89
2881.57	0.00					
10060.00		89.360	266.096	7280.41	-196.86	-2884.86
2891.57	0.00					
10070.00		89.360	266.096	7280.52	-197.54	-2894.84
2901.57	0.00					
10080.00		89.360	266.096	7280.63	-198.22	-2904.81
2911.57	0.00					
10090.00		89.360	266.096	7280.75	-198.90	-2914.79
2921.57	0.00					
10100.00		89.360	266.096	7280.86	-199.58	-2924.77
2931.57	0.00					
10110.00		89.360	266.096	7280.97	-200.26	-2934.74
2941.57	0.00					
10120.00		89.360	266.096	7281.08	-200.95	-2944.72
2951.57	0.00					

		Dynamite 14	Fed Com #2	Lateral	Plan #1	
10130.00		89.360	266.096	7281.19	-201.63	-2954.70
2961.57	0.00					
10140.00		89.360	266.096	7281.31	-202.31	-2964.67
2971.57	0.00					
10150.00		89.360	266.096	7281.42	-202.99	-2974.65
2981.57	0.00					
10160.00		89.360	266.096	7281.53	-203.67	-2984.62
2991.56	0.00					
10170.00		89.360	266.096	7281.64	-204.35	-2994.60
3001.56	0.00					
10180.00		89.360	266.096	7281.75	-205.03	-3004.58
3011.56	0.00					
10190.00		89.360	266.096	7281.86	-205.71	-3014.55
3021.56	0.00					
10200.00		89.360	266.096	7281.98	-206.39	-3024.53
3031.56	0.00					
10210.00		89.360	266.096	7282.09	-207.07	-3034.50
3041.56	0.00					
10220.00		89.360	266.096	7282.20	-207.75	-3044.48
3051.56	0.00					
10230.00		89.360	266.096	7282.31	-208.43	-3054.46
3061.56	0.00					
10240.00		89.360	266.096	7282.42	-209.11	-3064.43
3071.56	0.00					
10250.00		89.360	266.096	7282.53	-209.79	-3074.41
3081.56	0.00					
10260.00		89.360	266.096	7282.65	-210.48	-3084.39
3091.56	0.00					
10270.00		89.360	266.096	7282.76	-211.16	-3094.36
3101.56	0.00					
10280.00		89.360	266.096	7282.87	-211.84	-3104.34
3111.56	0.00					
10290.00		89.360	266.096	7282.98	-212.52	-3114.31
3121.56	0.00					
10300.00		89.360	266.096	7283.09	-213.20	-3124.29
3131.56	0.00					
10310.00		89.360	266.096	7283.20	-213.88	-3134.27
3141.56	0.00					
10320.00		89.360	266.096	7283.32	-214.56	-3144.24
3151.55	0.00					
10330.00		89.360	266.096	7283.43	-215.24	-3154.22
3161.55	0.00					
10340.00		89.360	266.096	7283.54	-215.92	-3164.19
3171.55	0.00					
10350.00		89.360	266.096	7283.65	-216.60	-3174.17
3181.55	0.00					
10360.00		89.360	266.096	7283.76	-217.28	-3184.15
3191.55	0.00					
10370.00		89.360	266.096	7283.87	-217.96	-3194.12
3201.55	0.00					
10380.00		89.360	266.096	7283.99	-218.64	-3204.10
3211.55	0.00					
10390.00		89.360	266.096	7284.10	-219.33	-3214.08
3221.55	0.00					
10400.00		89.360	266.096	7284.21	-220.01	-3224.05
3231.55	0.00					
10410.00		89.360	266.096	7284.32	-220.69	-3234.03
3241.55	0.00					
10420.00		89.360	266.096	7284.43	-221.37	-3244.00
3251.55	0.00					
10430.00		89.360	266.096	7284.54	-222.05	-3253.98
3261.55	0.00					
10440.00		89.360	266.096	7284.66	-222.73	-3263.96

Dynamite 14 Fed Com #2 Lateral Plan #1						
3271.55	0.00					
10450.00		89.360	266.096	7284.77	-223.41	-3273.93
3281.55	0.00					
10460.00		89.360	266.096	7284.88	-224.09	-3283.91
3291.55	0.00					
10470.00		89.360	266.096	7284.99	-224.77	-3293.89
3301.55	0.00					
10480.00		89.360	266.096	7285.10	-225.45	-3303.86
3311.54	0.00					
10490.00		89.360	266.096	7285.21	-226.13	-3313.84
3321.54	0.00					
10500.00		89.360	266.096	7285.33	-226.81	-3323.81
3331.54	0.00					
10510.00		89.360	266.096	7285.44	-227.49	-3333.79
3341.54	0.00					
10520.00		89.360	266.096	7285.55	-228.18	-3343.77
3351.54	0.00					
10530.00		89.360	266.096	7285.66	-228.86	-3353.74
3361.54	0.00					
10540.00		89.360	266.096	7285.77	-229.54	-3363.72
3371.54	0.00					
10550.00		89.360	266.096	7285.88	-230.22	-3373.69
3381.54	0.00					
10560.00		89.360	266.096	7286.00	-230.90	-3383.67
3391.54	0.00					
10570.00		89.360	266.096	7286.11	-231.58	-3393.65
3401.54	0.00					
10580.00		89.360	266.096	7286.22	-232.26	-3403.62
3411.54	0.00					
10590.00		89.360	266.096	7286.33	-232.94	-3413.60
3421.54	0.00					
10600.00		89.360	266.096	7286.44	-233.62	-3423.58
3431.54	0.00					
10610.00		89.360	266.096	7286.56	-234.30	-3433.55
3441.54	0.00					
10620.00		89.360	266.096	7286.67	-234.98	-3443.53
3451.54	0.00					
10630.00		89.360	266.096	7286.78	-235.66	-3453.50
3461.54	0.00					
10640.00		89.360	266.096	7286.89	-236.34	-3463.48
3471.53	0.00					
10650.00		89.360	266.096	7287.00	-237.03	-3473.46
3481.53	0.00					
10660.00		89.360	266.096	7287.11	-237.71	-3483.43
3491.53	0.00					
10670.00		89.360	266.096	7287.23	-238.39	-3493.41
3501.53	0.00					
10680.00		89.360	266.096	7287.34	-239.07	-3503.38
3511.53	0.00					
10690.00		89.360	266.096	7287.45	-239.75	-3513.36
3521.53	0.00					
10700.00		89.360	266.096	7287.56	-240.43	-3523.34
3531.53	0.00					
10710.00		89.360	266.096	7287.67	-241.11	-3533.31
3541.53	0.00					
10720.00		89.360	266.096	7287.78	-241.79	-3543.29
3551.53	0.00					
10730.00		89.360	266.096	7287.90	-242.47	-3553.27
3561.53	0.00					
10740.00		89.360	266.096	7288.01	-243.15	-3563.24
3571.53	0.00					
10750.00		89.360	266.096	7288.12	-243.83	-3573.22
3581.53	0.00					

		Dynamite 14	Fed Com #2	Lateral	Plan #1	
10760.00		89.360	266.096	7288.23	-244.51	-3583.19
3591.53	0.00					
10770.00		89.360	266.096	7288.34	-245.19	-3593.17
3601.53	0.00					
10780.00		89.360	266.096	7288.45	-245.88	-3603.15
3611.53	0.00					
10790.00		89.360	266.096	7288.57	-246.56	-3613.12
3621.53	0.00					
10800.00		89.360	266.096	7288.68	-247.24	-3623.10
3631.52	0.00					
10810.00		89.360	266.096	7288.79	-247.92	-3633.08
3641.52	0.00					
10820.00		89.360	266.096	7288.90	-248.60	-3643.05
3651.52	0.00					
10830.00		89.360	266.096	7289.01	-249.28	-3653.03
3661.52	0.00					
10840.00		89.360	266.096	7289.12	-249.96	-3663.00
3671.52	0.00					
10850.00		89.360	266.096	7289.24	-250.64	-3672.98
3681.52	0.00					
10860.00		89.360	266.096	7289.35	-251.32	-3682.96
3691.52	0.00					
10870.00		89.360	266.096	7289.46	-252.00	-3692.93
3701.52	0.00					
10880.00		89.360	266.096	7289.57	-252.68	-3702.91
3711.52	0.00					
10890.00		89.360	266.096	7289.68	-253.36	-3712.88
3721.52	0.00					
10900.00		89.360	266.096	7289.79	-254.04	-3722.86
3731.52	0.00					
10910.00		89.360	266.096	7289.91	-254.73	-3732.84
3741.52	0.00					
10920.00		89.360	266.096	7290.02	-255.41	-3742.81
3751.52	0.00					
10930.00		89.360	266.096	7290.13	-256.09	-3752.79
3761.52	0.00					
10940.00		89.360	266.096	7290.24	-256.77	-3762.77
3771.52	0.00					
10950.00		89.360	266.096	7290.35	-257.45	-3772.74
3781.52	0.00					
10960.00		89.360	266.096	7290.46	-258.13	-3782.72
3791.51	0.00					
10970.00		89.360	266.096	7290.58	-258.81	-3792.69
3801.51	0.00					
10980.00		89.360	266.096	7290.69	-259.49	-3802.67
3811.51	0.00					
10990.00		89.360	266.096	7290.80	-260.17	-3812.65
3821.51	0.00					
11000.00		89.360	266.096	7290.91	-260.85	-3822.62
3831.51	0.00					
11010.00		89.360	266.096	7291.02	-261.53	-3832.60
3841.51	0.00					
11020.00		89.360	266.096	7291.13	-262.21	-3842.57
3851.51	0.00					
11030.00		89.360	266.096	7291.25	-262.89	-3852.55
3861.51	0.00					
11040.00		89.360	266.096	7291.36	-263.58	-3862.53
3871.51	0.00					
11050.00		89.360	266.096	7291.47	-264.26	-3872.50
3881.51	0.00					
11060.00		89.360	266.096	7291.58	-264.94	-3882.48
3891.51	0.00					
11070.00		89.360	266.096	7291.69	-265.62	-3892.46

Dynamite 14 Fed Com #2 Lateral Plan #1					
3901.51	0.00				
11080.00		89.360	266.096	7291.80	-266.30 -3902.43
3911.51	0.00				
11090.00		89.360	266.096	7291.92	-266.98 -3912.41
3921.51	0.00				
11100.00		89.360	266.096	7292.03	-267.66 -3922.38
3931.51	0.00				
11110.00		89.360	266.096	7292.14	-268.34 -3932.36
3941.51	0.00				
11120.00		89.360	266.096	7292.25	-269.02 -3942.34
3951.50	0.00				
11130.00		89.360	266.096	7292.36	-269.70 -3952.31
3961.50	0.00				
11140.00		89.360	266.096	7292.48	-270.38 -3962.29
3971.50	0.00				
11150.00		89.360	266.096	7292.59	-271.06 -3972.27
3981.50	0.00				
11160.00		89.360	266.096	7292.70	-271.74 -3982.24
3991.50	0.00				
11170.00		89.360	266.096	7292.81	-272.43 -3992.22
4001.50	0.00				
11180.00		89.360	266.096	7292.92	-273.11 -4002.19
4011.50	0.00				
11190.00		89.360	266.096	7293.03	-273.79 -4012.17
4021.50	0.00				
11200.00		89.360	266.096	7293.15	-274.47 -4022.15
4031.50	0.00				
11210.00		89.360	266.096	7293.26	-275.15 -4032.12
4041.50	0.00				
11220.00		89.360	266.096	7293.37	-275.83 -4042.10
4051.50	0.00				
11230.00		89.360	266.096	7293.48	-276.51 -4052.07
4061.50	0.00				
11240.00		89.360	266.096	7293.59	-277.19 -4062.05
4071.50	0.00				
11250.00		89.360	266.096	7293.70	-277.87 -4072.03
4081.50	0.00				
11260.00		89.360	266.096	7293.82	-278.55 -4082.00
4091.50	0.00				
11270.00		89.360	266.096	7293.93	-279.23 -4091.98
4101.50	0.00				
11280.00		89.360	266.096	7294.04	-279.91 -4101.96
4111.49	0.00				
11290.00		89.360	266.096	7294.15	-280.59 -4111.93
4121.49	0.00				
11300.00		89.360	266.096	7294.26	-281.28 -4121.91
4131.49	0.00				
11310.00		89.360	266.096	7294.37	-281.96 -4131.88
4141.49	0.00				
11320.00		89.360	266.096	7294.49	-282.64 -4141.86
4151.49	0.00				
11330.00		89.360	266.096	7294.60	-283.32 -4151.84
4161.49	0.00				
11340.00		89.360	266.096	7294.71	-284.00 -4161.81
4171.49	0.00				
11350.00		89.360	266.096	7294.82	-284.68 -4171.79
4181.49	0.00				
11360.00		89.360	266.096	7294.93	-285.36 -4181.76
4191.49	0.00				
11370.00		89.360	266.096	7295.04	-286.04 -4191.74
4201.49	0.00				
11380.00		89.360	266.096	7295.16	-286.72 -4201.72
4211.49	0.00				

		Dynamite 14	Fed Com #2	Lateral	Plan #1	
11390.00		89.360	266.096	7295.27	-287.40	-4211.69
4221.49	0.00					
11400.00		89.360	266.096	7295.38	-288.08	-4221.67
4231.49	0.00					
11410.00		89.360	266.096	7295.49	-288.76	-4231.65
4241.49	0.00					
11420.00		89.360	266.096	7295.60	-289.44	-4241.62
4251.49	0.00					
11430.00		89.360	266.096	7295.71	-290.13	-4251.60
4261.49	0.00					
11440.00		89.360	266.096	7295.83	-290.81	-4261.57
4271.48	0.00					
11450.00		89.360	266.096	7295.94	-291.49	-4271.55
4281.48	0.00					
11460.00		89.360	266.096	7296.05	-292.17	-4281.53
4291.48	0.00					
11470.00		89.360	266.096	7296.16	-292.85	-4291.50
4301.48	0.00					
11480.00		89.360	266.096	7296.27	-293.53	-4301.48
4311.48	0.00					
11490.00		89.360	266.096	7296.38	-294.21	-4311.45
4321.48	0.00					
11500.00		89.360	266.096	7296.50	-294.89	-4321.43
4331.48	0.00					
11510.00		89.360	266.096	7296.61	-295.57	-4331.41
4341.48	0.00					
11520.00		89.360	266.096	7296.72	-296.25	-4341.38
4351.48	0.00					
11530.00		89.360	266.096	7296.83	-296.93	-4351.36
4361.48	0.00					
11540.00		89.360	266.096	7296.94	-297.61	-4361.34
4371.48	0.00					
11550.00		89.360	266.096	7297.05	-298.29	-4371.31
4381.48	0.00					
11560.00		89.360	266.096	7297.17	-298.98	-4381.29
4391.48	0.00					
11570.00		89.360	266.096	7297.28	-299.66	-4391.26
4401.48	0.00					
11580.00		89.360	266.096	7297.39	-300.34	-4401.24
4411.48	0.00					
11590.00		89.360	266.096	7297.50	-301.02	-4411.22
4421.48	0.00					
11600.00		89.360	266.096	7297.61	-301.70	-4421.19
4431.47	0.00					
11610.00		89.360	266.096	7297.72	-302.38	-4431.17
4441.47	0.00					
11620.00		89.360	266.096	7297.84	-303.06	-4441.15
4451.47	0.00					
11630.00		89.360	266.096	7297.95	-303.74	-4451.12
4461.47	0.00					
11640.00		89.360	266.096	7298.06	-304.42	-4461.10
4471.47	0.00					
11650.00		89.360	266.096	7298.17	-305.10	-4471.07
4481.47	0.00					
11660.00		89.360	266.096	7298.28	-305.78	-4481.05
4491.47	0.00					
11670.00		89.360	266.096	7298.40	-306.46	-4491.03
4501.47	0.00					
11680.00		89.360	266.096	7298.51	-307.14	-4501.00
4511.47	0.00					
11690.00		89.360	266.096	7298.62	-307.83	-4510.98
4521.47	0.00					
11700.00		89.360	266.096	7298.73	-308.51	-4520.95

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4531.47	0.00					
11710.00		89.360	266.096	7298.84	-309.19	-4530.93
4541.47	0.00					
11720.00		89.360	266.096	7298.95	-309.87	-4540.91
4551.47	0.00					
11730.00		89.360	266.096	7299.07	-310.55	-4550.88
4561.47	0.00					
11740.00		89.360	266.096	7299.18	-311.23	-4560.86
4571.47	0.00					
11750.00		89.360	266.096	7299.29	-311.91	-4570.84
4581.47	0.00					
11760.00		89.360	266.096	7299.40	-312.59	-4580.81
4591.46	0.00					
11770.00		89.360	266.096	7299.51	-313.27	-4590.79
4601.46	0.00					
11780.00		89.360	266.096	7299.62	-313.95	-4600.76
4611.46	0.00					
11790.00		89.360	266.096	7299.74	-314.63	-4610.74
4621.46	0.00					
11800.00		89.360	266.096	7299.85	-315.31	-4620.72
4631.46	0.00					
11810.00		89.360	266.096	7299.96	-315.99	-4630.69
4641.46	0.00					
11813.68		89.360	266.096	7300.00	-316.24	-4634.36
4645.14	0.00					

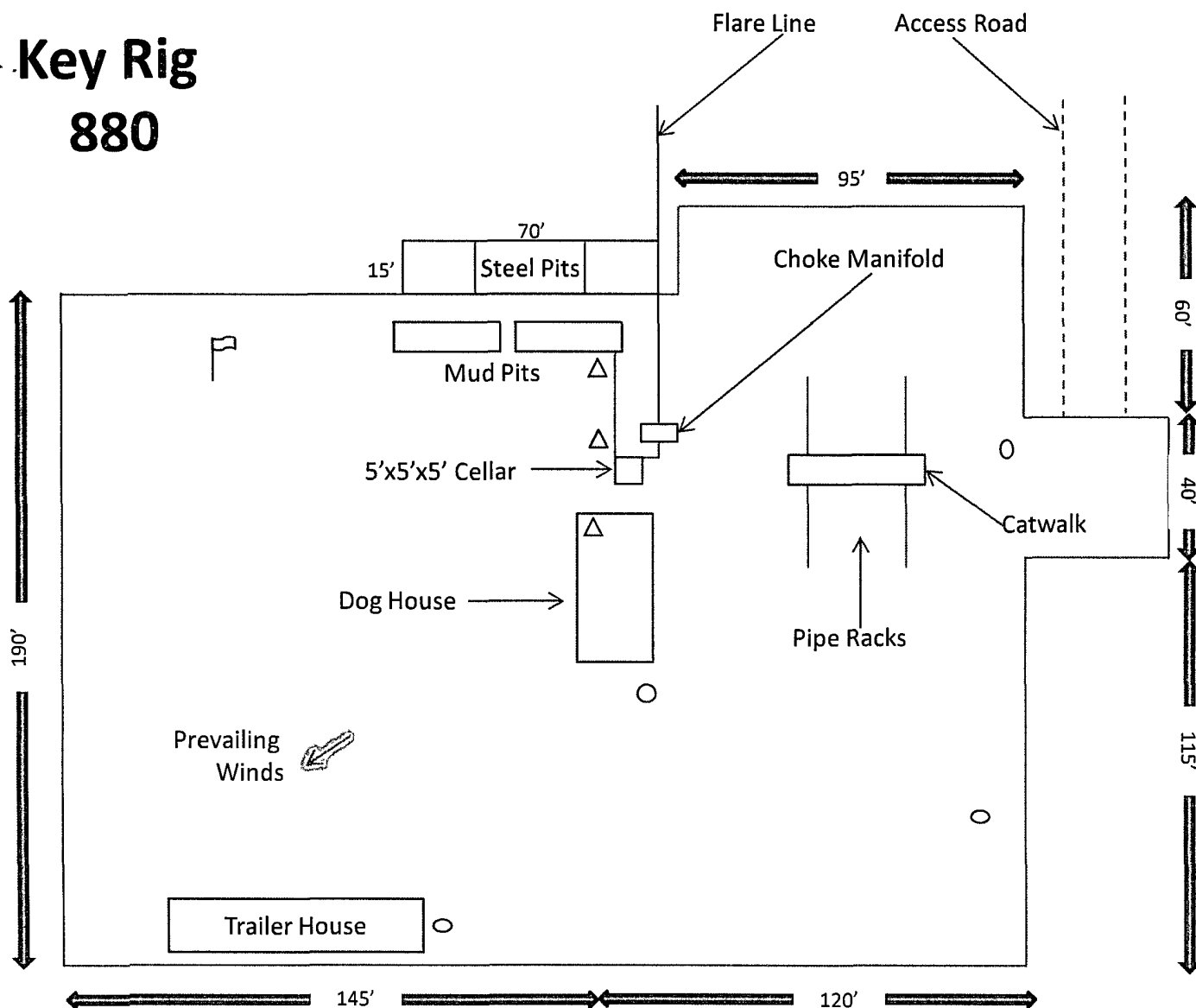
All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to Rig KB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Site and calculated along an Azimuth of 266.096° (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 0.161°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11813.68ft., the Bottom Hole Displacement is 4645.14ft., in the Direction of 266.096° (Grid).

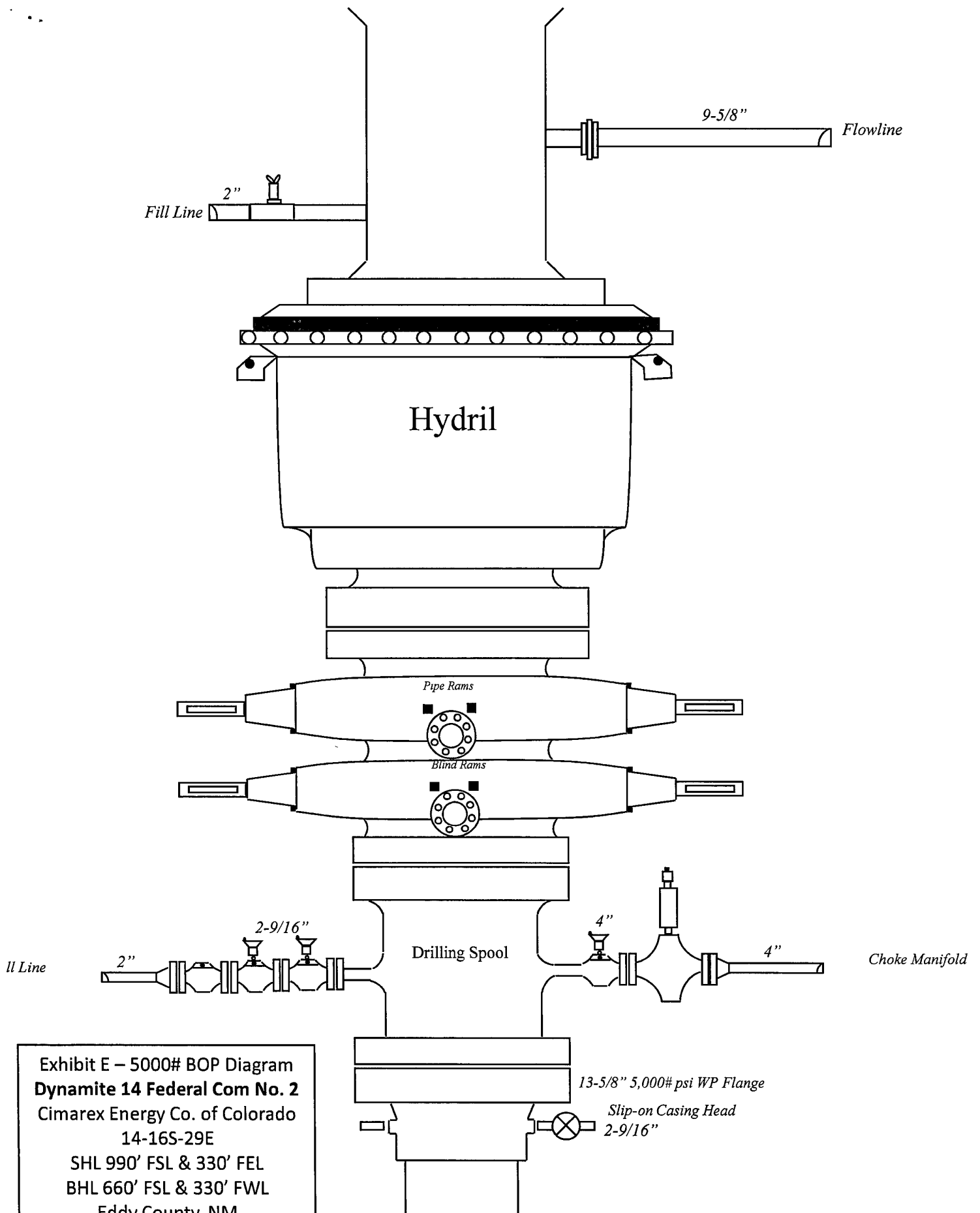
Key Rig 880



-  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 Diagram
Dynamite 14 Federal Com No. 2
 Cimarex Energy Co. of Colorado
 14-16S-29E
 SHL 990' FSL & 330' FEL
 BHL 660' FSL & 330' FWL
 Eddy County, NM

SR & A



**DRILLING OPERATIONS
CHOKE MANIFOLD
5M SERVICE**

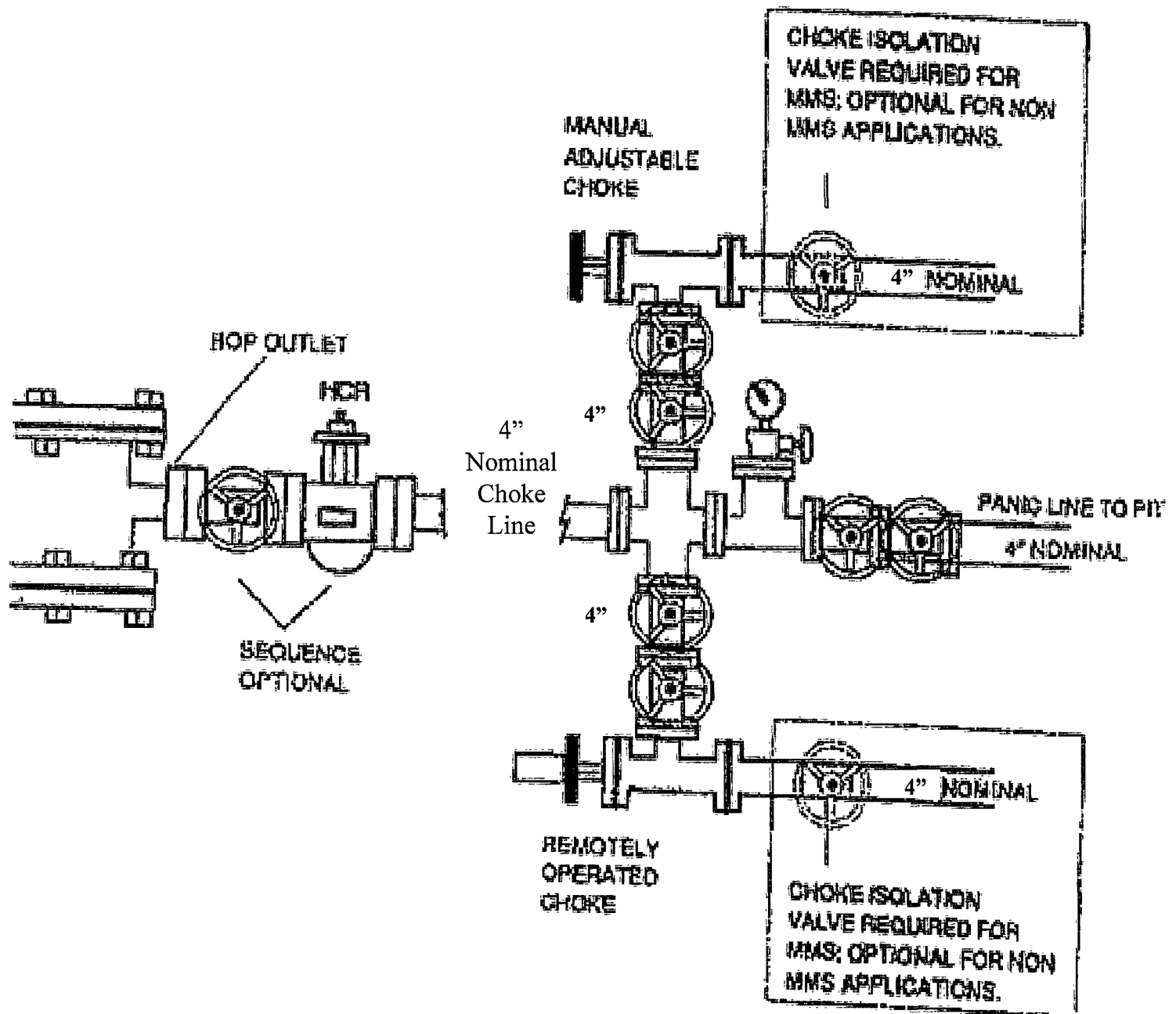


Exhibit E-1 – Choke Manifold Diagram
Dynamite 14 Federal Com No. 2
 Cimarex Energy Co. of Colorado
 14-16S-29E
 SHL 990' FSL & 330' FEL
 BHL 660' FSL & 330' FWL
 Eddy County, NM

Hydrogen Sulfide Drilling Operations Plan
Dynamite 14 Federal Com No. 2
Cimarex Energy Co. of Colorado
Unit P, Section 14
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 separator will be brought into service along with H₂S scavengers if necessary.

H₂S Contingency Plan
Dynamite 14 Federal Com No. 2
Cimarex Energy Co. of Colorado
Unit P, Section 14
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 Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	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

Dynamite 14 Federal Com No. 2

Cimarex Energy Co. of Colorado

Unit P, Section 14

T16S R29E, Eddy County, NM

Company Office

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

800-969-4789

Key Personnel

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		505-200-6105
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

Santa Fe

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

National

National Emergency Response Center (Washington, D.C.)	800-424-8802
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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

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
Cimarex Energy Co. of Colorado
Dynamite 14 Federal Com No.
Unit P, Section 14
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 the junction of Hagerman Cutoff and Mallett, go West approx 0.7 miles to lease road. Go Northwest on lease road for 3.7 miles to lease road. On lease road, go West 0.3 miles to lease road. On lease road, go South turning West for 0.4 miles. Thence turn South to proposed lease road.

- 2 Planned Access Roads: ⁸⁰⁰~~447~~' of new road will be constructed, approximately 217.4' of which will be on-lease.

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
Dynamite 14 Federal Com No.
Unit P, Section 14
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 separated 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.
- 8 Ancillary Facilities:
 - A. No camps or airstrips to be constructed.

Surface Use Plan
Cimarex Energy Co. of Colorado
Dynamite 14 Federal Com No.
Unit P, Section 14
T16S R29E, Eddy County, NM

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.

Surface Use Plan
Cimarex Energy Co. of Colorado
Dynamite 14 Federal Com No.
Unit P, Section 14
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 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. An Archaeological survey will be conducted on the location and proposed roads, and this report will be 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.

Operator Certification Statement
Cimarex Energy Co. of Colorado
Dynamite 14 Federal Com No.
Unit P, Section 14
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: Zeno Farris
Zeno Farris

DATE: March 12, 2008

TITLE: Manager Operations Administration

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy
LEASE NO.:	LC-061638
WELL NAME & NO.:	2-DYNAMITE 14 FEDERAL COM
SURFACE HOLE FOOTAGE:	990' FSL & 330' FEL
BOTTOM HOLE FOOTAGE:	660' FSL & 330' FWL
LOCATION:	Section 14, 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**
 - Lesser Prairie Chicken

- ☒ **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

- ☒ **Interim Reclamation**

- ☐ **Final Abandonment/Reclamation**

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)

Mitigation Measures: The mitigation measures include the Pecos District Conditions of Approval, the standard stipulations for the Lesser Prairie Chicken, and the standard stipulation for permanent resource roads.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting.

Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Dynamite 14 Federal Com. # 2: Closed Loop V-Door North

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 (505) 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

Dynamite 14 Federal Com. # 2: Closed Loop V-Door North

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS 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 (505) 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.

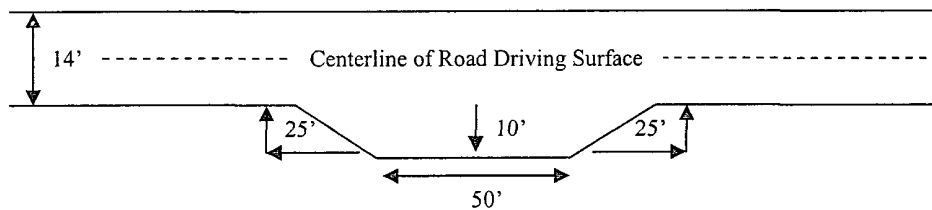
Ditching

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

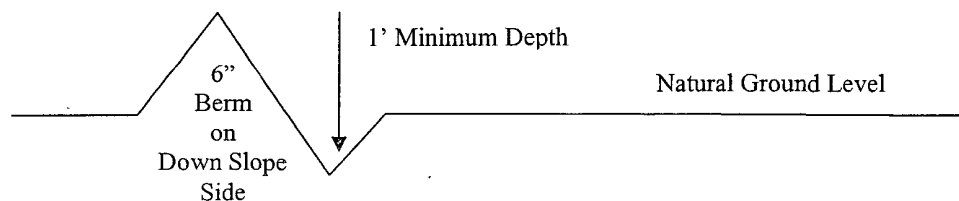


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing 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:

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

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

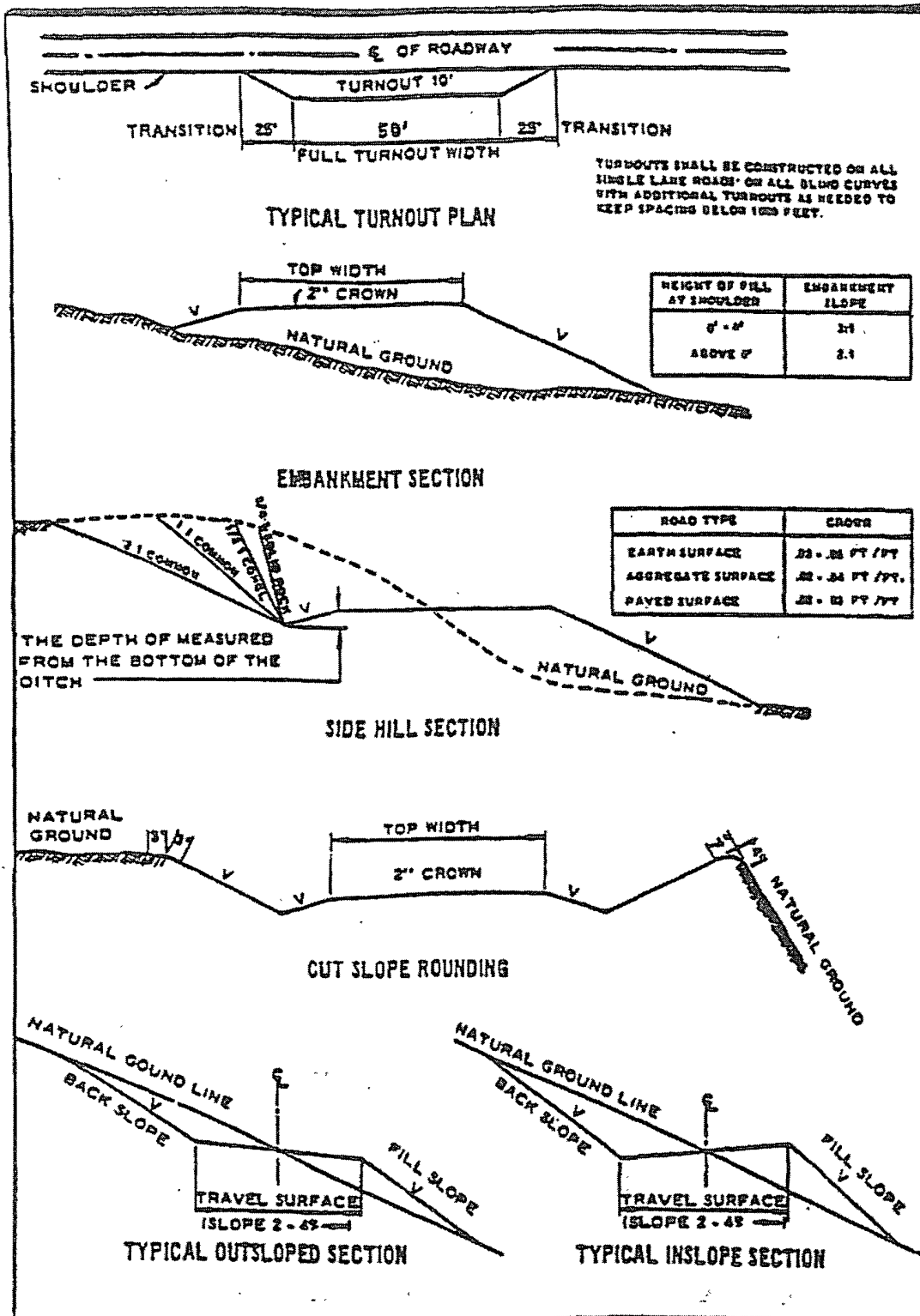
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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 potential hazard. It has been reported in Section 12. The Operator states there is potential for encountering Hydrogen Sulfide and has attached a Hydrogen Sulfide (H₂S) Operations Drilling Plan. 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.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string.

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 water flows in the Salado and Artesia Group
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 450 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. Fresh water gel shall be the drilling medium to casing setting depth.
 - 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 will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
 - 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, remedial cementing will be done prior to drilling out that string.
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-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i.

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.**

Formation below the kick off point to be tested according to Onshore Order 2.III.B.1.i.

Tag cement at bottom of pilot hole and report on subsequent report.

NOTE: Pilot hole will require proper plug when well is plugged.

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

☒ Not required as operator is using Peak Iso-Pak liner. **Seal on Peak Systems Iso-Pack liner is to be tested per Onshore Oil and Gas Order 2.III.B.1.b. Please call BLM for witness of seal test.**

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. A variance to test only the surface casing to the reduced pressure of 1000 psi with the rig pumps is approved. **The BOP/BOPE will be tested to 5000 psi by an independent service company.**

D. DRILL STEM TEST

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

LB 7/8/08

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.

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 no 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 seed 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:

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

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

FINAL ABANDONMET & 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.

Hydrogen Sulfide Drilling Operations Plan
Dynamite 14 Federal Com No. 2
Cimarex Energy Co. of Colorado
Unit P, Section 14
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 separator will be brought into service along with H₂S scavengers if necessary.

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 Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	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

Dynamite 14 Federal Com No. 2

Cimarex Energy Co. of Colorado

Unit P, Section 14

T16S R29E, Eddy County, NM

Company Office

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

800-969-4789

Key Personnel

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		505-200-6105
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

Santa Fe

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

National

National Emergency Response Center (Washington, D.C.)	800-424-8802
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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

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		