

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATION OF CIMAREX ENERGY CO.
FOR A NON-STANDARD OIL SPACING AND
PRORATION UNIT AND FOR COMPULSORY
POOLING, LEA COUNTY, NEW MEXICO.

Case No. 14,083

AFFIDAVIT OF DAN SPANCERS

CITY AND COUNTY OF DENVER)
) ss.
STATE OF COLORADO)

Dan Spancers, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Cimarex Energy Co. ("Cimarex").
3. Exhibit A is a plat of the Denton field, a Wolfcamp and Devonian field discovered in 1949. Cimarex is attempting to extend the productive portion of the field to the east and southeast.
4. Exhibit B is a structure map on top of the Wolfcamp formation. The Wolfcamp dips gently to the southeast. Exhibit B also contains production data from older, vertical wells in the pool.
5. The proposed well is moving downdip, and there is a thinner Wolfcamp section in the proposed well. Exhibit C is a type log from an older, vertical well. The pay being tested in the horizontal well is indicated on the type log.
6. Both quarter-quarter sections in the well are prospective in the Wolfcamp, and Cimarex anticipates producing reserves from each quarter-quarter section.
7. Exhibit D is a directional drilling plan for the well. Vertical wells would not be economic, due to the thinner pay section available to such a well. A horizontal wellbore will test a greater reservoir length, increasing the chances for an economic completion.

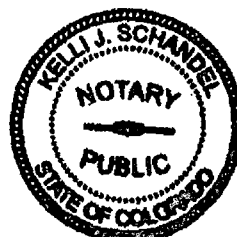
Oil Conservation Division
Case No. 3
Exhibit No. 2

Dan Spancers
Dan Spancers

SUBSCRIBED AND SWORN TO before me this 18th day of February, 2008 by Dan Spancers.

My Commission Expires: 8/23/2009

Kelli J. Schandel
Notary Public



My Commission Expires Aug. 23, 2009

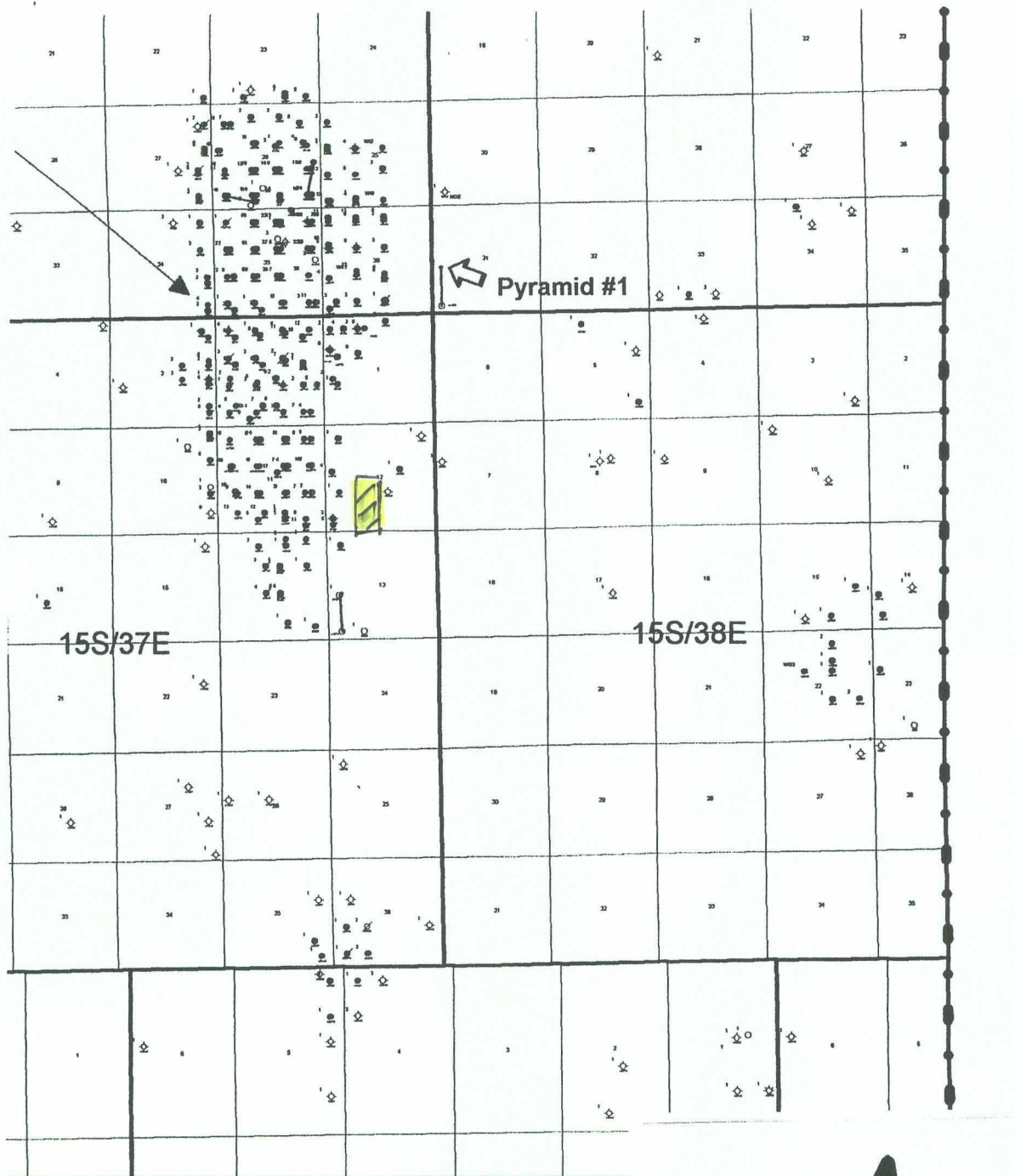


EXHIBIT **A**

ft

Cimarex Energy Co.		
Caudill / Denton Area Base Map Northern Lea Co, NM		
Author: Dave Rittersbacher		Date: 17 May, 2007
	Scale: 1"=8000'	

Pyramid 80 acre unit

Pyramid #1

Lateral currently producing

Harvard 6 Fee #2

Lateral currently producing

proposed 80 acre unit

Humboldt 6 State
COM #1

Antero 12 Fee 5

proposed 80 acre unit

Missouri Unit
13 Fee #5

proposed 80 acre unit

Sunshine #1

proposed 80 acre unit

proposed 80 acre unit

Redcloud 13 Fee #2

EXHIBIT

B

-5400

-5400

-5500

-5500

-5600

-5600

-5700

-5700

WOLFCAMP

9256

-5459

Pyramid #1
Horizontal Target
Zone

EXHIBIT

WOLFCAMP B

9514

Cimarex Energy Co., Inc.

Lea County (NAD 83)

Antero 12 Fee #5H

Antero 12 Fee #5

Lateral #1

Plan: Plan #1

Standard Survey Report

19 December, 2007

EXHIBIT

D



Project Lea County (NAD 83)
 Site Antero 12 Fee #5H
 Well Antero 12 Fee #5
 Wellbore Lateral #1
 Plan Plan #1 (Antero 12 Fee #5/Lateral #1)

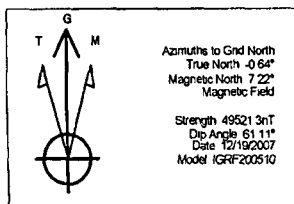
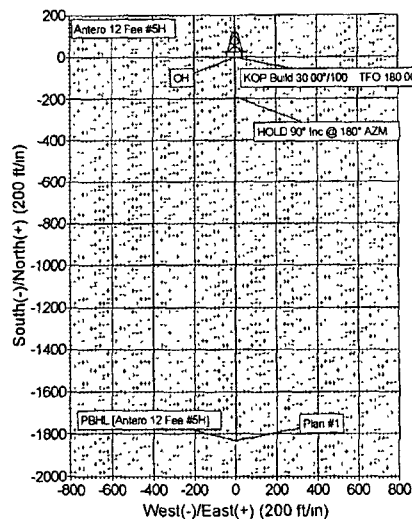


PROJECT DETAILS Lea County (NAD 83)

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

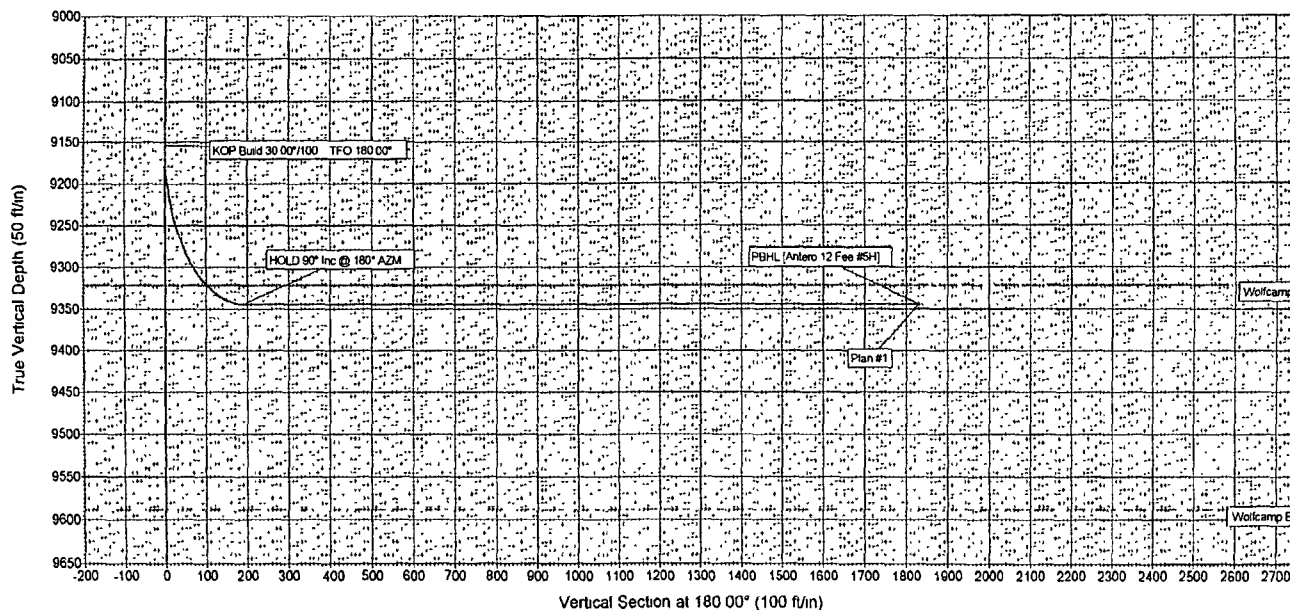
ANNOTATIONS

TVD	MD	Annotation
9153 01	9153 01	KOP Build 30 007/100 TFO 180 00°
9344 00	9453 01	HOLD 90° Inc @ 180° AZM



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9153 00	0 00	0 00	9153 00	0 00	0 00	0 00	0 00	0 00	
2	9153 01	0 00	0 00	9153 01	0 00	0 00	0 00	0 00	0 00	
3	9453 01	90 00	180 00	9344 00	-190 99	0 00	30 00	180 00	190 99	
4	11092 03	90 00	180 00	9344 00	-1830 00	0 00	0 00	0 00	1830 00	PBHL (Antero 12 Fee #5H)



Plan Plan #1 (Antero 12 Fee #5/Lateral #1)
 Created By Heather Vannoy Date December 19, 2007

Black Viper Energy

Survey Report

Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Antero 12 Fee #5
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3783.00ft (Original Well Elev)
Site:	Antero 12 Fee #5H	MD Reference:	WELL @ 3783.00ft (Original Well Elev)
Well:	Antero 12 Fee #5	North Reference:	Gnd
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14 Server Db

Project:	Lea County (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Antero 12 Fee #5H				
Site Position:	Northing:	740,669.60 ft	Latitude:	33° 1' 49.933 N	
From:	Easting:	902,222.80 ft	Longitude:	103° 9' 20.957 W	
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.64 °

Well:	Antero 12 Fee #5					
Well Position	+N/-S	0.00 ft	Northing:	740,669.60 ft	Latitude:	33° 1' 49.933 N
	+E/-W	0.00 ft	Easting:	902,222.80 ft	Longitude:	103° 9' 20.957 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft	

Wellbore:	Lateral #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	12/19/2007	7.86	61.11	49,521

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	9,153.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	180.00

Survey Tool Program	Date	12/19/2007		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
9,153.00	11,092.03	Plan #1 (Lateral #1)	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)
9,153.01	0.00	0.00	9,153.01	0.00	0.00	0.00	0.00	0.00	0.00
KOP Build 30.00°/100.00' TFO 180.00°									
9,180.00	8.10	180.00	9,179.91	-1.90	0.00	1.90	30.00	30.00	0.00
9,210.00	17.10	180.00	9,209.16	-8.44	0.00	8.44	30.00	30.00	0.00
9,240.00	26.10	180.00	9,237.02	-19.47	0.00	19.47	30.00	30.00	0.00
9,270.00	35.10	180.00	9,262.82	-34.72	0.00	34.72	30.00	30.00	0.00
9,300.00	44.10	180.00	9,285.91	-53.82	0.00	53.82	30.00	30.00	0.00
9,330.00	53.10	180.00	9,305.73	-76.30	0.00	76.30	30.00	30.00	0.00
9,360.00	62.10	180.00	9,321.79	-101.61	0.00	101.61	30.00	30.00	0.00
9,360.44	62.23	180.00	9,322.00	-102.00	0.00	102.00	30.00	30.00	0.00
Wolfcamp									
9,390.00	71.10	180.00	9,333.70	-129.11	0.00	129.11	30.00	30.00	0.00
9,420.00	80.10	180.00	9,341.15	-158.14	0.00	158.14	30.00	30.00	0.00

Black Viper Energy

Survey Report

Company: Cimarex Energy Co., Inc.
 Project: Lea County (NAD 83)
 Site: Antero 12 Fee #5H
 Well: Antero 12 Fee #5
 Wellbore: Lateral #1
 Design: Plan #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well Antero 12 Fee #5
 WELL @ 3783.00ft (Original Well Elev)
 WELL @ 3783.00ft (Original Well Elev)
 Gnd
 Minimum Curvature
 EDM 2003.14 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)
9,450.00	89.10	180.00	9,343.98	-187.97	0.00	187.97	30.00	30.00	0.00
9,453.01	90.00	180.00	9,344.00	-190.99	0.00	190.99	30.00	30.00	0.00
HOLD 90° Inc @ 180° AZM									
9,480.00	90.00	180.00	9,344.00	-217.97	0.00	217.97	0.00	0.00	0.00
9,510.00	90.00	180.00	9,344.00	-247.97	0.00	247.97	0.00	0.00	0.00
9,540.00	90.00	180.00	9,344.00	-277.97	0.00	277.97	0.00	0.00	0.00
9,570.00	90.00	180.00	9,344.00	-307.97	0.00	307.97	0.00	0.00	0.00
9,600.00	90.00	180.00	9,344.00	-337.97	0.00	337.97	0.00	0.00	0.00
9,630.00	90.00	180.00	9,344.00	-367.97	0.00	367.97	0.00	0.00	0.00
9,660.00	90.00	180.00	9,344.00	-397.97	0.00	397.97	0.00	0.00	0.00
9,690.00	90.00	180.00	9,344.00	-427.97	0.00	427.97	0.00	0.00	0.00
9,720.00	90.00	180.00	9,344.00	-457.97	0.00	457.97	0.00	0.00	0.00
9,750.00	90.00	180.00	9,344.00	-487.97	0.00	487.97	0.00	0.00	0.00
9,780.00	90.00	180.00	9,344.00	-517.97	0.00	517.97	0.00	0.00	0.00
9,810.00	90.00	180.00	9,344.00	-547.97	0.00	547.97	0.00	0.00	0.00
9,840.00	90.00	180.00	9,344.00	-577.97	0.00	577.97	0.00	0.00	0.00
9,870.00	90.00	180.00	9,344.00	-607.97	0.00	607.97	0.00	0.00	0.00
9,900.00	90.00	180.00	9,344.00	-637.97	0.00	637.97	0.00	0.00	0.00
9,930.00	90.00	180.00	9,344.00	-667.97	0.00	667.97	0.00	0.00	0.00
9,960.00	90.00	180.00	9,344.00	-697.97	0.00	697.97	0.00	0.00	0.00
9,990.00	90.00	180.00	9,344.00	-727.97	0.00	727.97	0.00	0.00	0.00
10,020.00	90.00	180.00	9,344.00	-757.97	0.00	757.97	0.00	0.00	0.00
10,050.00	90.00	180.00	9,344.00	-787.97	0.00	787.97	0.00	0.00	0.00
10,080.00	90.00	180.00	9,344.00	-817.97	0.00	817.97	0.00	0.00	0.00
10,110.00	90.00	180.00	9,344.00	-847.97	0.00	847.97	0.00	0.00	0.00
10,140.00	90.00	180.00	9,344.00	-877.97	0.00	877.97	0.00	0.00	0.00
10,170.00	90.00	180.00	9,344.00	-907.97	0.00	907.97	0.00	0.00	0.00
10,200.00	90.00	180.00	9,344.00	-937.97	0.00	937.97	0.00	0.00	0.00
10,230.00	90.00	180.00	9,344.00	-967.97	0.00	967.97	0.00	0.00	0.00
10,260.00	90.00	180.00	9,344.00	-997.97	0.00	997.97	0.00	0.00	0.00
10,290.00	90.00	180.00	9,344.00	-1,027.97	0.00	1,027.97	0.00	0.00	0.00
10,320.00	90.00	180.00	9,344.00	-1,057.97	0.00	1,057.97	0.00	0.00	0.00
10,350.00	90.00	180.00	9,344.00	-1,087.97	0.00	1,087.97	0.00	0.00	0.00
10,380.00	90.00	180.00	9,344.00	-1,117.97	0.00	1,117.97	0.00	0.00	0.00
10,410.00	90.00	180.00	9,344.00	-1,147.97	0.00	1,147.97	0.00	0.00	0.00
10,440.00	90.00	180.00	9,344.00	-1,177.97	0.00	1,177.97	0.00	0.00	0.00
10,470.00	90.00	180.00	9,344.00	-1,207.97	0.00	1,207.97	0.00	0.00	0.00
10,500.00	90.00	180.00	9,344.00	-1,237.97	0.00	1,237.97	0.00	0.00	0.00
10,530.00	90.00	180.00	9,344.00	-1,267.97	0.00	1,267.97	0.00	0.00	0.00
10,560.00	90.00	180.00	9,344.00	-1,297.97	0.00	1,297.97	0.00	0.00	0.00
10,590.00	90.00	180.00	9,344.00	-1,327.97	0.00	1,327.97	0.00	0.00	0.00
10,620.00	90.00	180.00	9,344.00	-1,357.97	0.00	1,357.97	0.00	0.00	0.00
10,650.00	90.00	180.00	9,344.00	-1,387.97	0.00	1,387.97	0.00	0.00	0.00
10,680.00	90.00	180.00	9,344.00	-1,417.97	0.00	1,417.97	0.00	0.00	0.00
10,710.00	90.00	180.00	9,344.00	-1,447.97	0.00	1,447.97	0.00	0.00	0.00
10,740.00	90.00	180.00	9,344.00	-1,477.97	0.00	1,477.97	0.00	0.00	0.00
10,770.00	90.00	180.00	9,344.00	-1,507.97	0.00	1,507.97	0.00	0.00	0.00
10,800.00	90.00	180.00	9,344.00	-1,537.97	0.00	1,537.97	0.00	0.00	0.00
10,830.00	90.00	180.00	9,344.00	-1,567.97	0.00	1,567.97	0.00	0.00	0.00
10,860.00	90.00	180.00	9,344.00	-1,597.97	0.00	1,597.97	0.00	0.00	0.00
10,890.00	90.00	180.00	9,344.00	-1,627.97	0.00	1,627.97	0.00	0.00	0.00
10,920.00	90.00	180.00	9,344.00	-1,657.97	0.00	1,657.97	0.00	0.00	0.00
10,950.00	90.00	180.00	9,344.00	-1,687.97	0.00	1,687.97	0.00	0.00	0.00
10,980.00	90.00	180.00	9,344.00	-1,717.97	0.00	1,717.97	0.00	0.00	0.00
11,010.00	90.00	180.00	9,344.00	-1,747.97	0.00	1,747.97	0.00	0.00	0.00

Black Viper Energy

Survey Report

Company:	Cimarex Energy Co. Inc	Local Co-ordinate Reference:	Well Antero 12 Fee #5
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3783.00ft (Original Well Elev)
Site:	Antero 12 Fee #5H	MD Reference:	WELL @ 3783.00ft (Original Well Elev)
Well:	Antero 12 Fee #5	North Reference:	Gnd
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM-2003 14 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)
11,040.00	90.00	180.00	9,344.00	-1,777.97	0.00	1,777.97	0.00	0.00	0.00
11,070.00	90.00	180.00	9,344.00	-1,807.97	0.00	1,807.97	0.00	0.00	0.00
11,092.03	90.00	180.00	9,344.00	-1,830.00	0.00	1,830.00	0.00	0.00	0.00

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 [Antero 12 Fee #5	- plan hits target	0.00	0.00	9,344.00	-1,830.00	0.00	738,839.60	902,222.80	33° 1' 31.829 N	103° 9' 21.198 W
	- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,113.00	Rustler		0.00	
	3,118.00	Yates		0.00	
	3,299.00	Seven Rivers		0.00	
	3,910.00	Queen		0.00	
	4,244.00	Grayburg		0.00	
	4,393.00	San Andres		0.00	
	6,668.00	Glorieta		0.00	
	6,909.00	Blaine		0.00	
	7,461.00	Tubb		0.00	
	7,712.00	Drinkard		0.00	
	8,128.00	Abo		0.00	
9,360.44	9,322.00	Wolfcamp		0.00	
	9,588.00	Wolfcamp B		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
9,153.01	9,153.01	0.00	0.00	KOP Build 30.00°/100 TFO 180.00°
9,453.01	9,344.00	-190.99	0.00	HOLD 90° Inc @ 180° AZM

Checked By _____ Approved By _____ Date: _____

Cimarex Energy Co., Inc.
Antero 12 Fee #5 - Plan #1

Lea County (NAD 83)
Antero 12 Fee #5H

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
9153.01	0.000	0.000	9153.01	0.00 N	0.00 E	0.00	0.00
9180.00	8.096	180.000	9179.91	1.90 S	0.00 E	1.90	30.00
9210.00	17.096	180.000	9209.16	8.44 S	0.00 E	8.44	30.00
9240.00	26.096	180.000	9237.02	19.47 S	0.00 E	19.47	30.00
9270.00	35.096	180.000	9262.82	34.72 S	0.00 E	34.72	30.00
9300.00	44.096	180.000	9285.91	53.82 S	0.00 E	53.82	30.00
9330.00	53.096	180.000	9305.73	76.30 S	0.00 E	76.30	30.00
9360.00	62.096	180.000	9321.79	101.61 S	0.00 E	101.61	30.00
9390.00	71.096	180.000	9333.70	129.11 S	0.00 E	129.11	30.00
9420.00	80.096	180.000	9341.15	158.14 S	0.00 E	158.14	30.00
9450.00	89.096	180.000	9343.98	187.97 S	0.00 E	187.97	30.00
9453.01	90.000	180.000	9344.00	190.99 S	0.00 E	190.99	30.00
9480.00	90.000	180.000	9344.00	217.97 S	0.00 E	217.97	0.00
9510.00	90.000	180.000	9344.00	247.97 S	0.00 E	247.97	0.00
9540.00	90.000	180.000	9344.00	277.97 S	0.00 E	277.97	0.00
9570.00	90.000	180.000	9344.00	307.97 S	0.00 E	307.97	0.00
9600.00	90.000	180.000	9344.00	337.97 S	0.00 E	337.97	0.00
9630.00	90.000	180.000	9344.00	367.97 S	0.00 E	367.97	0.00
9660.00	90.000	180.000	9344.00	397.97 S	0.00 E	397.97	0.00
9690.00	90.000	180.000	9344.00	427.97 S	0.00 E	427.97	0.00
9720.00	90.000	180.000	9344.00	457.97 S	0.00 E	457.97	0.00
9750.00	90.000	180.000	9344.00	487.97 S	0.00 E	487.97	0.00
9780.00	90.000	180.000	9344.00	517.97 S	0.00 E	517.97	0.00
9810.00	90.000	180.000	9344.00	547.97 S	0.00 E	547.97	0.00
9840.00	90.000	180.000	9344.00	577.97 S	0.00 E	577.97	0.00
9870.00	90.000	180.000	9344.00	607.97 S	0.00 E	607.97	0.00
9900.00	90.000	180.000	9344.00	637.97 S	0.00 E	637.97	0.00
9930.00	90.000	180.000	9344.00	667.97 S	0.00 E	667.97	0.00
9960.00	90.000	180.000	9344.00	697.97 S	0.00 E	697.97	0.00
9990.00	90.000	180.000	9344.00	727.97 S	0.00 E	727.97	0.00
10020.00	90.000	180.000	9344.00	757.97 S	0.00 E	757.97	0.00
10050.00	90.000	180.000	9344.00	787.97 S	0.00 E	787.97	0.00
10080.00	90.000	180.000	9344.00	817.97 S	0.00 E	817.97	0.00
10110.00	90.000	180.000	9344.00	847.97 S	0.00 E	847.97	0.00
10140.00	90.000	180.000	9344.00	877.97 S	0.00 E	877.97	0.00
10170.00	90.000	180.000	9344.00	907.97 S	0.00 E	907.97	0.00
10200.00	90.000	180.000	9344.00	937.97 S	0.00 E	937.97	0.00
10230.00	90.000	180.000	9344.00	967.97 S	0.00 E	967.97	0.00
10260.00	90.000	180.000	9344.00	997.97 S	0.00 E	997.97	0.00
10290.00	90.000	180.000	9344.00	1027.97 S	0.00 E	1027.97	0.00
10320.00	90.000	180.000	9344.00	1057.97 S	0.00 E	1057.97	0.00
10350.00	90.000	180.000	9344.00	1087.97 S	0.00 E	1087.97	0.00
10380.00	90.000	180.000	9344.00	1117.97 S	0.00 E	1117.97	0.00
10410.00	90.000	180.000	9344.00	1147.97 S	0.00 E	1147.97	0.00
10440.00	90.000	180.000	9344.00	1177.97 S	0.00 E	1177.97	0.00
10470.00	90.000	180.000	9344.00	1207.97 S	0.00 E	1207.97	0.00
10500.00	90.000	180.000	9344.00	1237.97 S	0.00 E	1237.97	0.00
10530.00	90.000	180.000	9344.00	1267.97 S	0.00 E	1267.97	0.00
10560.00	90.000	180.000	9344.00	1297.97 S	0.00 E	1297.97	0.00
10590.00	90.000	180.000	9344.00	1327.97 S	0.00 E	1327.97	0.00
10620.00	90.000	180.000	9344.00	1357.97 S	0.00 E	1357.97	0.00
10650.00	90.000	180.000	9344.00	1387.97 S	0.00 E	1387.97	0.00
10680.00	90.000	180.000	9344.00	1417.97 S	0.00 E	1417.97	0.00
10710.00	90.000	180.000	9344.00	1447.97 S	0.00 E	1447.97	0.00
10740.00	90.000	180.000	9344.00	1477.97 S	0.00 E	1477.97	0.00
10770.00	90.000	180.000	9344.00	1507.97 S	0.00 E	1507.97	0.00
10800.00	90.000	180.000	9344.00	1537.97 S	0.00 E	1537.97	0.00
10830.00	90.000	180.000	9344.00	1567.97 S	0.00 E	1567.97	0.00
10860.00	90.000	180.000	9344.00	1597.97 S	0.00 E	1597.97	0.00
10890.00	90.000	180.000	9344.00	1627.97 S	0.00 E	1627.97	0.00
10920.00	90.000	180.000	9344.00	1657.97 S	0.00 E	1657.97	0.00

10950.00	90.000	180.000	9344.00	1687.97 S	0.00 E	1687.97	0.00
10980.00	90.000	180.000	9344.00	1717.97 S	0.00 E	1717.97	0.00
11010.00	90.000	180.000	9344.00	1747.97 S	0.00 E	1747.97	0.00
11040.00	90.000	180.000	9344.00	1777.97 S	0.00 E	1777.97	0.00
11070.00	90.000	180.000	9344.00	1807.97 S	0.00 E	1807.97	0.00
11092.03	90.000	180.000	9344.00	1830.00 S	0.00 E	1830.00	0.00

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

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Site and calculated along an Azimuth of 180.000° (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 0.642°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11092.03ft., the Bottom Hole Displacement is 1830.00ft., in the Direction of 180.000° (Grid).