

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. 14,020

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.

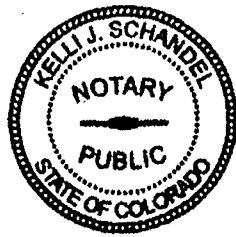
Oil Conservation Division
Case No. _____
Exhibit No. 2

Dan Spencers
Dan Spencers

SUBSCRIBED AND SWORN TO before me this 30 day of October, 2007 by Dan Spencers.

My Commission Expires: 8/23/09

Kelli J. Schandel
Notary Public



My Commission Expires Aug. 23, 2009

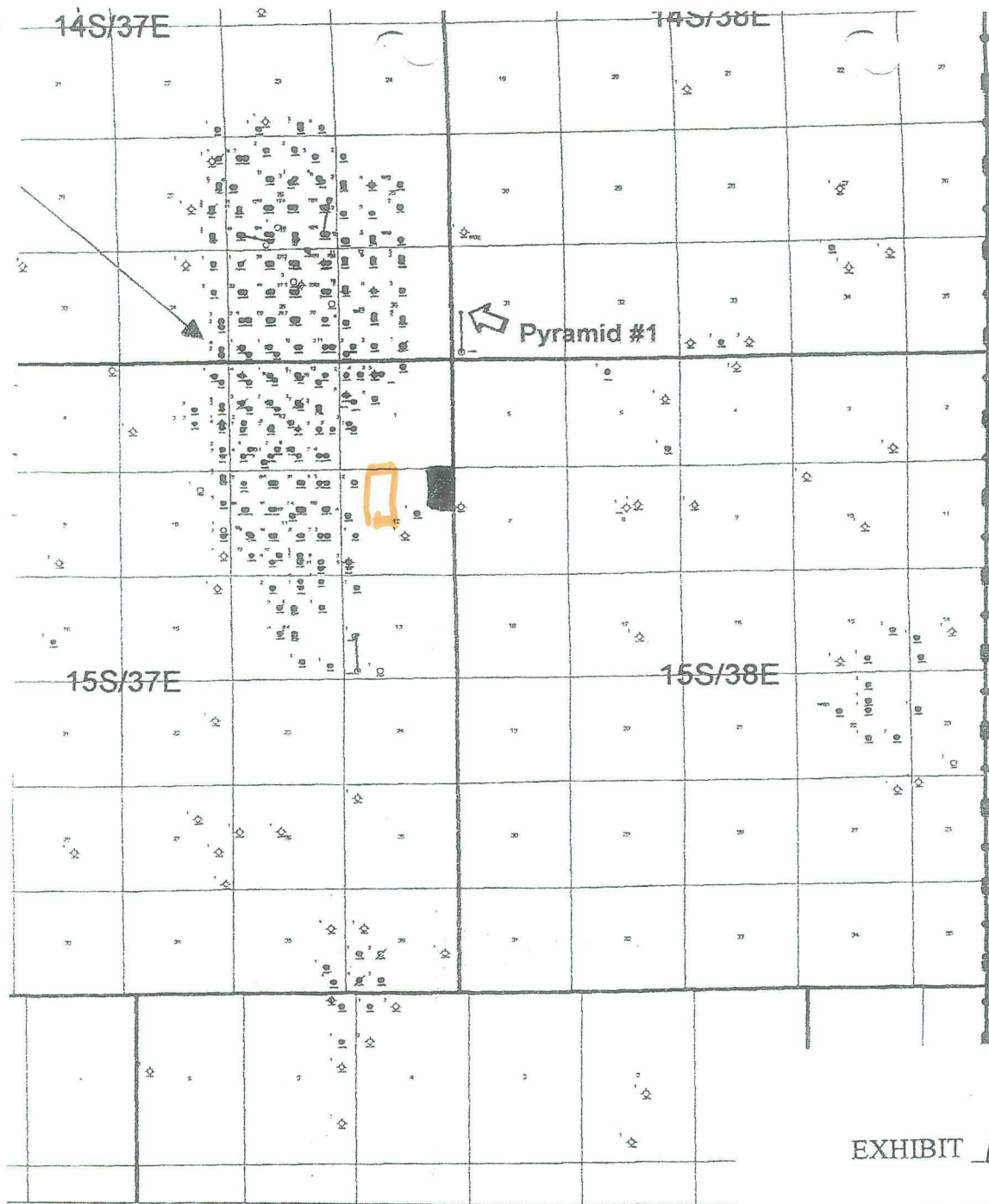


EXHIBIT **A**

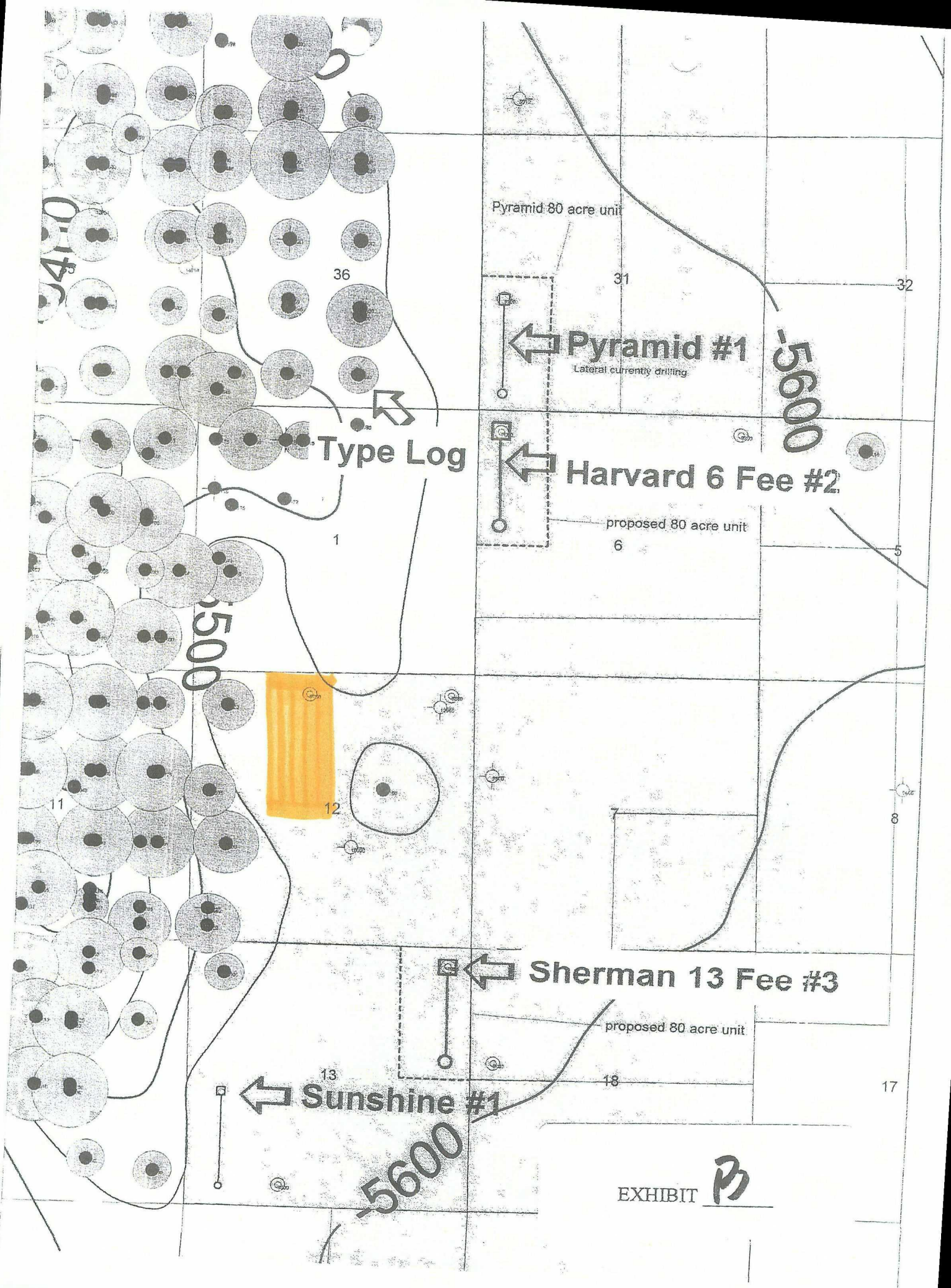
Cimarex Energy Co.

**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 drilling

Harvard 6 Fee #2

proposed 80 acre unit

Type Log

Sherman 13 Fee #3

proposed 80 acre unit

Sunshine #1

EXHIBIT

B

Type Log

30025052030000



SINCLAIR OIL & GAS

WT MANN 1

660FSL 2310FEL

TWP: 14 S - Range: 37 E - Sec. 36

Reference=ES

Datum=3797

Comp Date=8/4/1953

EXHIBIT

C

-5400

-5400

-5500

-5500

WOLFCAMP

9256

5459

Horizontal
Target Zone

-5600

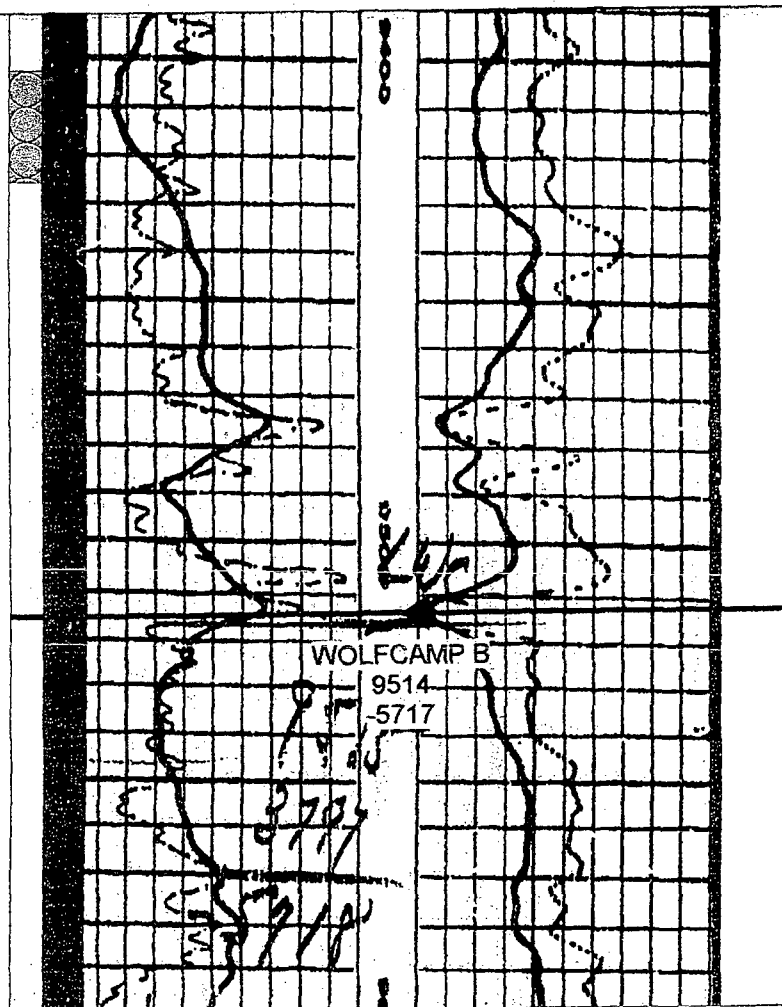
-5600

-5700

-5700

-5800

-5800



TD=12647

Completed in Devonian 1953, Acid 12,000G,
Cum. 402 MBO 48 MMCFG 93 MBW (1953-1973)

PB to Wolfcamp 1973, Acid 6500G
Cum 63 MBO 26 MMCFG 38 MBW (1973-1988)

Converted to Water Injection Injection 1988



Cimarex Energy Co., Inc.

Lea County (NAD 83)

Antero '12' Fee #3H

Antero '12' Fee #3H

Lateral #1

Plan: Plan #1

Standard Survey Report

23 August, 2007

EXHIBIT D





Black Viper Energy
Survey Report



Company: Cimarex Energy Co., Inc
Project: Lea County (NAD 83)
Site: Antero '12' Fee #3H
Well: Antero '12' Fee #3H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Site Antero '12' Fee #3H
TVD Reference: WELL @ 3786.00ft (Original Well Elev)
MD Reference: WELL @ 3786.00ft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14.1.0 Server DB

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

System Datum: Ground Level

Site: Antero '12' Fee #3H

Site Position: Northing: 741,463.21 ft Latitude: 33° 1' 57.759 N
From: Map Easting: 902,444.28 ft Longitude: 103° 9' 18.252 W
Position Uncertainty: 0.00 ft Slot Radius: " Grid Convergence: 0.64 "

Well: Antero '12' Fee #3H

Well Position: +N/-S 0.00 ft Northing: 741,463.21 ft Latitude: 33° 1' 57.759 N
+E/-W 0.00 ft Easting: 902,444.28 ft Longitude: 103° 9' 18.252 W
Position Uncertainty: 0.00 ft Wellhead Elevation: ft Ground Level: 0.00 ft

Wellbore: Lateral #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/23/2007	7.90	61.12	49,526

Design: Plan #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 9,190.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	0.00

Survey Tool Program Date 8/23/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
9,190.00	11,280.45	Plan #1 (Lateral #1)		

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)
9,190.00	0.00	0.00	9,190.00	0.00	0.00	0.00	0.00	0.00	0.00
9,191.00	0.00	0.00	9,191.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 30.16° / 100									
9,200.00	2.71	0.00	9,200.00	0.21	0.00	0.21	30.16	30.16	0.00
9,210.00	5.73	0.00	9,209.97	0.95	0.00	0.95	30.16	30.16	0.00
9,220.00	8.75	0.00	9,219.89	2.21	0.00	2.21	30.16	30.16	0.00
9,230.00	11.76	0.00	9,229.73	3.99	0.00	3.99	30.16	30.16	0.00
9,240.00	14.78	0.00	9,239.46	6.28	0.00	6.28	30.16	30.16	0.00
9,250.00	17.79	0.00	9,249.06	9.09	0.00	9.09	30.16	30.16	0.00
9,260.00	20.81	0.00	9,258.49	12.39	0.00	12.39	30.16	30.16	0.00
9,270.00	23.82	0.00	9,267.74	16.19	0.00	16.19	30.16	30.16	0.00
9,280.00	26.84	0.00	9,276.78	20.47	0.00	20.47	30.16	30.16	0.00
9,290.00	29.85	0.00	9,285.58	25.21	0.00	25.21	30.16	30.16	0.00



Black Viper Energy
Survey Report



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Site: Antero '12' Fee #3H
Well: Antero '12' Fee #3H
Wellbore: Lateral #1
Design: Plan #1

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

Site Antero '12' Fee #3H
WELL @ 3786 00ft (Original Well Elev)
WELL @ 3786 00ft (Original Well Elev)
Gnd
Minimum Curvature
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)
9,300 00	32 87	0 00	9,294 12	30 42	0 00	30 42	30 16	30 16	0 00
9,310 00	35 89	0 00	9,302 37	36 06	0 00	36 06	30 16	30 16	0 00
9,320 00	38 90	0 00	9,310 32	42 14	0 00	42 14	30 16	30 16	0 00
9,330 00	41 92	0 00	9,317 93	48 62	0 00	48 62	30 16	30 16	0 00
9,340 00	44 93	0 00	9,325 19	55 49	0 00	55 49	30 16	30 16	0 00
9,346 92	47 02	0 00	9,330 00	60 47	0 00	60 47	30 16	30 16	0 00
Wolfcamp									
9,350 00	47 95	0 00	9,332 08	62 74	0 00	62 74	30 16	30 16	0 00
9,360 00	50 96	0 00	9,338 58	70 33	0 00	70 33	30 16	30 16	0 00
9,370 00	53 98	0 00	9,344 67	78 26	0 00	78 26	30 16	30 16	0 00
9,380 00	56 99	0 00	9,350 34	86 50	0 00	86 50	30 16	30 16	0 00
9,390 00	60 01	0 00	9,355 56	95 03	0 00	95 03	30 16	30 16	0 00
9,400 00	63 03	0 00	9,360 33	103 82	0 00	103 82	30 16	30 16	0 00
9,410 00	66 04	0 00	9,364 63	112 84	0 00	112 84	30 16	30 16	0 00
9,420 00	69 06	0 00	9,368 45	122 09	0 00	122 09	30 16	30 16	0 00
9,430 00	72 07	0 00	9,371 77	131 51	0 00	131 51	30 16	30 16	0 00
9,440 00	75 09	0 00	9,374 60	141 11	0 00	141 11	30 16	30 16	0 00
9,450 00	78 10	0 00	9,376 92	150 83	0 00	150 83	30 16	30 16	0 00
9,460 00	81 12	0 00	9,378 72	160 67	0 00	160 67	30 16	30 16	0 00
9,470 00	84 13	0 00	9,380 01	170 58	0 00	170 58	30 16	30 16	0 00
9,480 00	87 15	0 00	9,380 76	180 55	0 00	180 55	30 16	30 16	0 00
9,489 45	90 00	0 00	9,381 00	190 00	0 00	190 00	30 16	30 16	0 00
EOC - Hold 90.0° Inc. :: 360.0° Azi.									
9,500 00	90 00	0 00	9,380 00	199 55	0 00	199 55	0 00	0 00	0 00
9,600 00	90 00	0 00	9,380 00	299 55	0 00	299 55	0 00	0 00	0 00
9,700 00	90 00	0 00	9,380 00	399 55	0 00	399 55	0 00	0 00	0 00
9,800 00	90 00	0 00	9,380 00	499 55	0 00	499 55	0 00	0 00	0 00
9,900 00	90 00	0 00	9,380 00	599 55	0 00	599 55	0 00	0 00	0 00
10,000 00	90 00	0 00	9,380 00	699 55	0 00	699 55	0 00	0 00	0 00
10,100 00	90 00	0 00	9,380 00	799 55	0 00	799 55	0 00	0 00	0 00
10,200 00	90 00	0 00	9,380 00	899 55	0 00	899 55	0 00	0 00	0 00
10,300 00	90 00	0 00	9,380 00	999 55	0 00	999 55	0 00	0 00	0 00
10,400 00	90 00	0 00	9,380 00	1,099 55	0 00	1,099 55	0 00	0 00	0 00
10,500 00	90 00	0 00	9,380 00	1,199 55	0 00	1,199 55	0 00	0 00	0 00
10,600 00	90 00	0 00	9,380 00	1,299 55	0 00	1,299 55	0 00	0 00	0 00
10,700 00	90 00	0 00	9,380 00	1,399 55	0 00	1,399 55	0 00	0 00	0 00
10,800 00	90 00	0 00	9,380 00	1,499 55	0 00	1,499 55	0 00	0 00	0 00
10,900 00	90 00	0 00	9,380 00	1,599 55	0 00	1,599 55	0 00	0 00	0 00
11,000 00	90 00	0 00	9,380 00	1,699 55	0 00	1,699 55	0 00	0 00	0 00
11,100 00	90 00	0 00	9,380 00	1,799 55	0 00	1,799 55	0 00	0 00	0 00
11,200 00	90 00	0 00	9,380 00	1,899 55	0 00	1,899 55	0 00	0 00	0 00
11,280 45	90 00	0 00	9,380 00	1,980 00	0 00	1,980 00	0 00	0 00	0 00

PBHL#1[A12Fee#3H]



Black Viper Energy
Survey Report



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Site: Antero '12' Fee #3H
Well: Antero '12' Fee #3H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Site Antero '12' Fee #3H
TVD Reference: WELL @ 3786 00ft (Original Well Elev)
MD Reference: WELL @ 3786 00ft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 1 0 Server DB

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Longitude
PBHL#1[A12Fee#3H]	- plan hits target	0 00	0 00	9,380 00	1,980 00	0 00	743,443 21	902,444 28	33° 2' 17 346 N
	- Point								103° 9' 17.991 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
9,346 92	9,330 00	Wolfcamp		0 00	0 00	
	9,593 00	Wolfcamp 'B'		0 00	0 00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N-S	+E-W		
(ft)	(ft)	(ft)	(ft)		
9,191 00	9,191 00	0 00	0 00	KOP - Build 30 16° / 100	
9,489 45	9,380 00	0 00	0 00	EOC - Hold 90 0° Inc 360 0° Azi	

Checked By: _____ Approved By: _____ Date: _____

Antero '12' Fee #3H Lateral Plan #1 Report 8-23-07.txt

Cimarex Energy Co., Inc.
Antero '12' Fee #3H - Plan #1

Lea County (NAD 83)
Antero '12' Fee #3H
Your Ref:

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
9190.00	0.000	0.000	9190.00	0.00 N	0.00 E	0.00
0.00						
9200.00	2.714	0.000	9200.00	0.21 N	0.00 E	0.21
27.14						
9210.00	5.730	0.000	9209.97	0.95 N	0.00 E	0.95
30.16						
9220.00	8.745	0.000	9219.89	2.21 N	0.00 E	2.21
30.16						
9230.00	11.761	0.000	9229.73	3.99 N	0.00 E	3.99
30.16						
9240.00	14.776	0.000	9239.46	6.28 N	0.00 E	6.28
30.16						
9250.00	17.792	0.000	9249.06	9.09 N	0.00 E	9.09
30.16						
9260.00	20.807	0.000	9258.49	12.39 N	0.00 E	12.39
30.16						
9270.00	23.823	0.000	9267.74	16.19 N	0.00 E	16.19
30.16						
9280.00	26.839	0.000	9276.78	20.47 N	0.00 E	20.47
30.16						
9290.00	29.854	0.000	9285.58	25.21 N	0.00 E	25.21
30.16						
9300.00	32.870	0.000	9294.12	30.42 N	0.00 E	30.42
30.16						
9310.00	35.885	0.000	9302.37	36.06 N	0.00 E	36.06
30.16						
9320.00	38.901	0.000	9310.32	42.14 N	0.00 E	42.14
30.16						
9330.00	41.916	0.000	9317.93	48.62 N	0.00 E	48.62
30.16						
9340.00	44.932	0.000	9325.19	55.49 N	0.00 E	55.49
30.16						
9350.00	47.948	0.000	9332.08	62.74 N	0.00 E	62.74
30.16						
9360.00	50.963	0.000	9338.58	70.33 N	0.00 E	70.33
30.16						
9370.00	53.979	0.000	9344.67	78.26 N	0.00 E	78.26
30.16						
9380.00	56.994	0.000	9350.34	86.50 N	0.00 E	86.50
30.16						
9390.00	60.010	0.000	9355.56	95.03 N	0.00 E	95.03
30.16						
9400.00	63.025	0.000	9360.33	103.82 N	0.00 E	103.82
30.16						
9410.00	66.041	0.000	9364.63	112.84 N	0.00 E	112.84

Antero '12' Fee #3H Lateral Plan #1 Report 8-23-07.txt

30.16						
9420.00	69.056	0.000	9368.45	122.09 N	0.00 E	122.09
30.16						
9430.00	72.072	0.000	9371.77	131.51 N	0.00 E	131.51
30.16						
9440.00	75.088	0.000	9374.60	141.11 N	0.00 E	141.11
30.16						
9450.00	78.103	0.000	9376.92	150.83 N	0.00 E	150.83
30.16						
9460.00	81.119	0.000	9378.72	160.67 N	0.00 E	160.67
30.16						
9470.00	84.134	0.000	9380.01	170.58 N	0.00 E	170.58
30.16						
9480.00	87.150	0.000	9380.76	180.55 N	0.00 E	180.55
30.16						
9490.00	90.000	0.000	9380.00	189.55 N	0.00 E	189.55
28.50						
9500.00	90.000	0.000	9380.00	199.55 N	0.00 E	199.55
0.00						
9510.00	90.000	0.000	9380.00	209.55 N	0.00 E	209.55
0.00						
9520.00	90.000	0.000	9380.00	219.55 N	0.00 E	219.55
0.00						
9530.00	90.000	0.000	9380.00	229.55 N	0.00 E	229.55
0.00						
9540.00	90.000	0.000	9380.00	239.55 N	0.00 E	239.55
0.00						
9550.00	90.000	0.000	9380.00	249.55 N	0.00 E	249.55
0.00						
9560.00	90.000	0.000	9380.00	259.55 N	0.00 E	259.55
0.00						
9570.00	90.000	0.000	9380.00	269.55 N	0.00 E	269.55
0.00						
9580.00	90.000	0.000	9380.00	279.55 N	0.00 E	279.55
0.00						
9590.00	90.000	0.000	9380.00	289.55 N	0.00 E	289.55
0.00						
9600.00	90.000	0.000	9380.00	299.55 N	0.00 E	299.55
0.00						
9610.00	90.000	0.000	9380.00	309.55 N	0.00 E	309.55
0.00						
9620.00	90.000	0.000	9380.00	319.55 N	0.00 E	319.55
0.00						
9630.00	90.000	0.000	9380.00	329.55 N	0.00 E	329.55
0.00						
9640.00	90.000	0.000	9380.00	339.55 N	0.00 E	339.55
0.00						
9650.00	90.000	0.000	9380.00	349.55 N	0.00 E	349.55
0.00						
9660.00	90.000	0.000	9380.00	359.55 N	0.00 E	359.55
0.00						
9670.00	90.000	0.000	9380.00	369.55 N	0.00 E	369.55
0.00						
9680.00	90.000	0.000	9380.00	379.55 N	0.00 E	379.55
0.00						
9690.00	90.000	0.000	9380.00	389.55 N	0.00 E	389.55
0.00						
9700.00	90.000	0.000	9380.00	399.55 N	0.00 E	399.55
0.00						
9710.00	90.000	0.000	9380.00	409.55 N	0.00 E	409.55
0.00						
9720.00	90.000	0.000	9380.00	419.55 N	0.00 E	419.55
0.00						

	Antero	'12'	Fee	#3H	Lateral	Plan #1	Report	8-23-07.txt	
9730.00	90.000	0.000	9380.00	429.55	N	0.00	E	429.55	
0.00									
9740.00	90.000	0.000	9380.00	439.55	N	0.00	E	439.55	
0.00									
9750.00	90.000	0.000	9380.00	449.55	N	0.00	E	449.55	
0.00									
9760.00	90.000	0.000	9380.00	459.55	N	0.00	E	459.55	
0.00									
9770.00	90.000	0.000	9380.00	469.55	N	0.00	E	469.55	
0.00									
9780.00	90.000	0.000	9380.00	479.55	N	0.00	E	479.55	
0.00									
9790.00	90.000	0.000	9380.00	489.55	N	0.00	E	489.55	
0.00									
9800.00	90.000	0.000	9380.00	499.55	N	0.00	E	499.55	
0.00									
9810.00	90.000	0.000	9380.00	509.55	N	0.00	E	509.55	
0.00									
9820.00	90.000	0.000	9380.00	519.55	N	0.00	E	519.55	
0.00									
9830.00	90.000	0.000	9380.00	529.55	N	0.00	E	529.55	
0.00									
9840.00	90.000	0.000	9380.00	539.55	N	0.00	E	539.55	
0.00									
9850.00	90.000	0.000	9380.00	549.55	N	0.00	E	549.55	
0.00									
9860.00	90.000	0.000	9380.00	559.55	N	0.00	E	559.55	
0.00									
9870.00	90.000	0.000	9380.00	569.55	N	0.00	E	569.55	
0.00									
9880.00	90.000	0.000	9380.00	579.55	N	0.00	E	579.55	
0.00									
9890.00	90.000	0.000	9380.00	589.55	N	0.00	E	589.55	
0.00									
9900.00	90.000	0.000	9380.00	599.55	N	0.00	E	599.55	
0.00									
9910.00	90.000	0.000	9380.00	609.55	N	0.00	E	609.55	
0.00									
9920.00	90.000	0.000	9380.00	619.55	N	0.00	E	619.55	
0.00									
9930.00	90.000	0.000	9380.00	629.55	N	0.00	E	629.55	
0.00									
9940.00	90.000	0.000	9380.00	639.55	N	0.00	E	639.55	
0.00									
9950.00	90.000	0.000	9380.00	649.55	N	0.00	E	649.55	
0.00									
9960.00	90.000	0.000	9380.00	659.55	N	0.00	E	659.55	
0.00									
9970.00	90.000	0.000	9380.00	669.55	N	0.00	E	669.55	
0.00									
9980.00	90.000	0.000	9380.00	679.55	N	0.00	E	679.55	
0.00									
9990.00	90.000	0.000	9380.00	689.55	N	0.00	E	689.55	
0.00									
10000.00	90.000	0.000	9380.00	699.55	N	0.00	E	699.55	
0.00									
10010.00	90.000	0.000	9380.00	709.55	N	0.00	E	709.55	
0.00									
10020.00	90.000	0.000	9380.00	719.55	N	0.00	E	719.55	
0.00									
10030.00	90.000	0.000	9380.00	729.55	N	0.00	E	729.55	
0.00									
10040.00	90.000	0.000	9380.00	739.55	N	0.00	E	739.55	

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0.00						
10050.00	90.000	0.000	9380.00	749.55 N	0.00 E	749.55
0.00						
10060.00	90.000	0.000	9380.00	759.55 N	0.00 E	759.55
0.00						
10070.00	90.000	0.000	9380.00	769.55 N	0.00 E	769.55
0.00						
10080.00	90.000	0.000	9380.00	779.55 N	0.00 E	779.55
0.00						
10090.00	90.000	0.000	9380.00	789.55 N	0.00 E	789.55
0.00						
10100.00	90.000	0.000	9380.00	799.55 N	0.00 E	799.55
0.00						
10110.00	90.000	0.000	9380.00	809.55 N	0.00 E	809.55
0.00						
10120.00	90.000	0.000	9380.00	819.55 N	0.00 E	819.55
0.00						
10130.00	90.000	0.000	9380.00	829.55 N	0.00 E	829.55
0.00						
10140.00	90.000	0.000	9380.00	839.55 N	0.00 E	839.55
0.00						
10150.00	90.000	0.000	9380.00	849.55 N	0.00 E	849.55
0.00						
10160.00	90.000	0.000	9380.00	859.55 N	0.00 E	859.55
0.00						
10170.00	90.000	0.000	9380.00	869.55 N	0.00 E	869.55
0.00						
10180.00	90.000	0.000	9380.00	879.55 N	0.00 E	879.55
0.00						
10190.00	90.000	0.000	9380.00	889.55 N	0.00 E	889.55
0.00						
10200.00	90.000	0.000	9380.00	899.55 N	0.00 E	899.55
0.00						
10210.00	90.000	0.000	9380.00	909.55 N	0.00 E	909.55
0.00						
10220.00	90.000	0.000	9380.00	919.55 N	0.00 E	919.55
0.00						
10230.00	90.000	0.000	9380.00	929.55 N	0.00 E	929.55
0.00						
10240.00	90.000	0.000	9380.00	939.55 N	0.00 E	939.55
0.00						
10250.00	90.000	0.000	9380.00	949.55 N	0.00 E	949.55
0.00						
10260.00	90.000	0.000	9380.00	959.55 N	0.00 E	959.55
0.00						
10270.00	90.000	0.000	9380.00	969.55 N	0.00 E	969.55
0.00						
10280.00	90.000	0.000	9380.00	979.55 N	0.00 E	979.55
0.00						
10290.00	90.000	0.000	9380.00	989.55 N	0.00 E	989.55
0.00						
10300.00	90.000	0.000	9380.00	999.55 N	0.00 E	999.55
0.00						
10310.00	90.000	0.000	9380.00	1009.55 N	0.00 E	1009.55
0.00						
10320.00	90.000	0.000	9380.00	1019.55 N	0.00 E	1019.55
0.00						
10330.00	90.000	0.000	9380.00	1029.55 N	0.00 E	1029.55
0.00						
10340.00	90.000	0.000	9380.00	1039.55 N	0.00 E	1039.55
0.00						
10350.00	90.000	0.000	9380.00	1049.55 N	0.00 E	1049.55
0.00						

	Antero	'12'	Fee	#3H	Lateral	Plan	#1	Report	8-23-07.txt	
10360.00	90.000	0.000	9380.00	1059.55	N	0.00	E	1059.55		
0.00										
10370.00	90.000	0.000	9380.00	1069.55	N	0.00	E	1069.55		
0.00										
10380.00	90.000	0.000	9380.00	1079.55	N	0.00	E	1079.55		
0.00										
10390.00	90.000	0.000	9380.00	1089.55	N	0.00	E	1089.55		
0.00										
10400.00	90.000	0.000	9380.00	1099.55	N	0.00	E	1099.55		
0.00										
10410.00	90.000	0.000	9380.00	1109.55	N	0.00	E	1109.55		
0.00										
10420.00	90.000	0.000	9380.00	1119.55	N	0.00	E	1119.55		
0.00										
10430.00	90.000	0.000	9380.00	1129.55	N	0.00	E	1129.55		
0.00										
10440.00	90.000	0.000	9380.00	1139.55	N	0.00	E	1139.55		
0.00										
10450.00	90.000	0.000	9380.00	1149.55	N	0.00	E	1149.55		
0.00										
10460.00	90.000	0.000	9380.00	1159.55	N	0.00	E	1159.55		
0.00										
10470.00	90.000	0.000	9380.00	1169.55	N	0.00	E	1169.55		
0.00										
10480.00	90.000	0.000	9380.00	1179.55	N	0.00	E	1179.55		
0.00										
10490.00	90.000	0.000	9380.00	1189.55	N	0.00	E	1189.55		
0.00										
10500.00	90.000	0.000	9380.00	1199.55	N	0.00	E	1199.55		
0.00										
10510.00	90.000	0.000	9380.00	1209.55	N	0.00	E	1209.55		
0.00										
10520.00	90.000	0.000	9380.00	1219.55	N	0.00	E	1219.55		
0.00										
10530.00	90.000	0.000	9380.00	1229.55	N	0.00	E	1229.55		
0.00										
10540.00	90.000	0.000	9380.00	1239.55	N	0.00	E	1239.55		
0.00										
10550.00	90.000	0.000	9380.00	1249.55	N	0.00	E	1249.55		
0.00										
10560.00	90.000	0.000	9380.00	1259.55	N	0.00	E	1259.55		
0.00										
10570.00	90.000	0.000	9380.00	1269.55	N	0.00	E	1269.55		
0.00										
10580.00	90.000	0.000	9380.00	1279.55	N	0.00	E	1279.55		
0.00										
10590.00	90.000	0.000	9380.00	1289.55	N	0.00	E	1289.55		
0.00										
10600.00	90.000	0.000	9380.00	1299.55	N	0.00	E	1299.55		
0.00										
10610.00	90.000	0.000	9380.00	1309.55	N	0.00	E	1309.55		
0.00										
10620.00	90.000	0.000	9380.00	1319.55	N	0.00	E	1319.55		
0.00										
10630.00	90.000	0.000	9380.00	1329.55	N	0.00	E	1329.55		
0.00										
10640.00	90.000	0.000	9380.00	1339.55	N	0.00	E	1339.55		
0.00										
10650.00	90.000	0.000	9380.00	1349.55	N	0.00	E	1349.55		
0.00										
10660.00	90.000	0.000	9380.00	1359.55	N	0.00	E	1359.55		
0.00										
10670.00	90.000	0.000	9380.00	1369.55	N	0.00	E	1369.55		

Antero '12' Fee #3H Lateral Plan #1 Report 8-23-07.txt

0.00						
10680.00	90.000	0.000	9380.00	1379.55 N	0.00 E	1379.55
0.00						
10690.00	90.000	0.000	9380.00	1389.55 N	0.00 E	1389.55
0.00						
10700.00	90.000	0.000	9380.00	1399.55 N	0.00 E	1399.55
0.00						
10710.00	90.000	0.000	9380.00	1409.55 N	0.00 E	1409.55
0.00						
10720.00	90.000	0.000	9380.00	1419.55 N	0.00 E	1419.55
0.00						
10730.00	90.000	0.000	9380.00	1429.55 N	0.00 E	1429.55
0.00						
10740.00	90.000	0.000	9380.00	1439.55 N	0.00 E	1439.55
0.00						
10750.00	90.000	0.000	9380.00	1449.55 N	0.00 E	1449.55
0.00						
10760.00	90.000	0.000	9380.00	1459.55 N	0.00 E	1459.55
0.00						
10770.00	90.000	0.000	9380.00	1469.55 N	0.00 E	1469.55
0.00						
10780.00	90.000	0.000	9380.00	1479.55 N	0.00 E	1479.55
0.00						
10790.00	90.000	0.000	9380.00	1489.55 N	0.00 E	1489.55
0.00						
10800.00	90.000	0.000	9380.00	1499.55 N	0.00 E	1499.55
0.00						
10810.00	90.000	0.000	9380.00	1509.55 N	0.00 E	1509.55
0.00						
10820.00	90.000	0.000	9380.00	1519.55 N	0.00 E	1519.55
0.00						
10830.00	90.000	0.000	9380.00	1529.55 N	0.00 E	1529.55
0.00						
10840.00	90.000	0.000	9380.00	1539.55 N	0.00 E	1539.55
0.00						
10850.00	90.000	0.000	9380.00	1549.55 N	0.00 E	1549.55
0.00						
10860.00	90.000	0.000	9380.00	1559.55 N	0.00 E	1559.55
0.00						
10870.00	90.000	0.000	9380.00	1569.55 N	0.00 E	1569.55
0.00						
10880.00	90.000	0.000	9380.00	1579.55 N	0.00 E	1579.55
0.00						
10890.00	90.000	0.000	9380.00	1589.55 N	0.00 E	1589.55
0.00						
10900.00	90.000	0.000	9380.00	1599.55 N	0.00 E	1599.55
0.00						
10910.00	90.000	0.000	9380.00	1609.55 N	0.00 E	1609.55
0.00						
10920.00	90.000	0.000	9380.00	1619.55 N	0.00 E	1619.55
0.00						
10930.00	90.000	0.000	9380.00	1629.55 N	0.00 E	1629.55
0.00						
10940.00	90.000	0.000	9380.00	1639.55 N	0.00 E	1639.55
0.00						
10950.00	90.000	0.000	9380.00	1649.55 N	0.00 E	1649.55
0.00						
10960.00	90.000	0.000	9380.00	1659.55 N	0.00 E	1659.55
0.00						
10970.00	90.000	0.000	9380.00	1669.55 N	0.00 E	1669.55
0.00						
10980.00	90.000	0.000	9380.00	1679.55 N	0.00 E	1679.55
0.00						

	Antero	'12'	Fee	#3H	Lateral	Plan #1	Report	8-23-07.txt
10990.00	90.000	0.000	9380.00	1689.55	N	0.00	E	1689.55
0.00								
11000.00	90.000	0.000	9380.00	1699.55	N	0.00	E	1699.55
0.00								
11010.00	90.000	0.000	9380.00	1709.55	N	0.00	E	1709.55
0.00								
11020.00	90.000	0.000	9380.00	1719.55	N	0.00	E	1719.55
0.00								
11030.00	90.000	0.000	9380.00	1729.55	N	0.00	E	1729.55
0.00								
11040.00	90.000	0.000	9380.00	1739.55	N	0.00	E	1739.55
0.00								
11050.00	90.000	0.000	9380.00	1749.55	N	0.00	E	1749.55
0.00								
11060.00	90.000	0.000	9380.00	1759.55	N	0.00	E	1759.55
0.00								
11070.00	90.000	0.000	9380.00	1769.55	N	0.00	E	1769.55
0.00								
11080.00	90.000	0.000	9380.00	1779.55	N	0.00	E	1779.55
0.00								
11090.00	90.000	0.000	9380.00	1789.55	N	0.00	E	1789.55
0.00								
11100.00	90.000	0.000	9380.00	1799.55	N	0.00	E	1799.55
0.00								
11110.00	90.000	0.000	9380.00	1809.55	N	0.00	E	1809.55
0.00								
11120.00	90.000	0.000	9380.00	1819.55	N	0.00	E	1819.55
0.00								
11130.00	90.000	0.000	9380.00	1829.55	N	0.00	E	1829.55
0.00								
11140.00	90.000	0.000	9380.00	1839.55	N	0.00	E	1839.55
0.00								
11150.00	90.000	0.000	9380.00	1849.55	N	0.00	E	1849.55
0.00								
11160.00	90.000	0.000	9380.00	1859.55	N	0.00	E	1859.55
0.00								
11170.00	90.000	0.000	9380.00	1869.55	N	0.00	E	1869.55
0.00								
11180.00	90.000	0.000	9380.00	1879.55	N	0.00	E	1879.55
0.00								
11190.00	90.000	0.000	9380.00	1889.55	N	0.00	E	1889.55
0.00								
11200.00	90.000	0.000	9380.00	1899.55	N	0.00	E	1899.55
0.00								
11210.00	90.000	0.000	9380.00	1909.55	N	0.00	E	1909.55
0.00								
11220.00	90.000	0.000	9380.00	1919.55	N	0.00	E	1919.55
0.00								
11230.00	90.000	0.000	9380.00	1929.55	N	0.00	E	1929.55
0.00								
11240.00	90.000	0.000	9380.00	1939.55	N	0.00	E	1939.55
0.00								
11250.00	90.000	0.000	9380.00	1949.55	N	0.00	E	1949.55
0.00								
11260.00	90.000	0.000	9380.00	1959.55	N	0.00	E	1959.55
0.00								
11270.00	90.000	0.000	9380.00	1969.55	N	0.00	E	1969.55
0.00								
11280.00	90.000	0.000	9380.00	1979.55	N	0.00	E	1979.55
0.00								
11280.45	90.000	0.000	9380.00	1980.00	N	0.00	E	1980.00
0.00								

Antero '12' Fee #3H Lateral Plan #1 Report 8-23-07.txt

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 0.000° (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 11280.45ft., the Bottom Hole Displacement is 1980.00ft., in the Direction of 0.000° (Grid).