

30-005-29134

Cimarex Energy Co., Inc.

Chaves Co., New Mexico

Lexington 14 Fee #1H

Lexington 14 Fee #1H

Lateral #1

Plan: Plan #1

Standard Survey Report

27 December, 2007

Black Viper Energy

Survey Report

Company: Cimarex Energy Co , Inc
Project: Chaves Co , New Mexico
Site: Lexington 14 Fee #1H
Well: Lexington 14 Fee #1H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Lexington 14 Fee #1H
TVD Reference: WELL @ 4398 00ft (Original Well Elev)
MD Reference: WELL @ 4398 00ft (Original Well Elev)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 Server Db

Project Chaves Co , New Mexico

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Lexington 14 Fee #1H

Site Position: Northing: 731,415 70 ft Latitude: 33° 0' 34 494 N
From: Map Easting: 663,691 60 ft Longitude: 103° 47' 57 699 W
Position Uncertainty: 0 00 ft Slot Radius: " Grid Convergence: 0 29 °

Well Lexington 14 Fee #1H

Well Position +N/-S 0 00 ft Northing: 731,415 70 ft Latitude: 33° 0' 34 494 N
 +E/-W 0 00 ft Easting: 663,691 60 ft Longitude: 103° 47' 57 699 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)
	IGRF2000	12/31/2004	8 73	61 13	49,865

Design Plan #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 8,650 00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0 00	0 00	90 00

Survey Tool Program Date 12/27/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
8,650 00	13,392 33	Plan #1 (Lateral #1)	MWD	MWD - Standard

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,650 00	0 00	0 00	8,650 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP 8650' TVD									
8,659 01	0 00	0 00	8,659.01	0 00	0 00	0 00	0 00	0 00	0 00
Build 30°/100 :: TFO 90°									
8,670 00	3 30	90 00	8,669 99	0 00	0 32	0 32	30 00	30 00	0 00
8,700 00	12 30	90 00	8,699 69	0 00	4 38	4 38	30 00	30 00	0 00
8,730 00	21 30	90 00	8,728 38	0 00	13 04	13 04	30 00	30 00	0 00
8,760 00	30 30	90 00	8,755 36	0 00	26 08	26 08	30 00	30 00	0 00
8,790 00	39 30	90 00	8,779 97	0 00	43 18	43 18	30 00	30 00	0 00
8,820 00	48 30	90 00	8,801 60	0 00	63 93	63 93	30 00	30 00	0 00
8,850 00	57 30	90 00	8,819 72	0 00	87 80	87 80	30 00	30 00	0 00
8,880 00	66 30	90 00	8,833 89	0 00	114 21	114 21	30 00	30 00	0 00
8,910 00	75 30	90 00	8,843 74	0 00	142 51	142 51	30 00	30 00	0 00

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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)
8,940 00	84 30	90 00	8,849 05	0 00	172 00	172 00	30 00	30 00	0 00
8,959 01	90 00	90 00	8,850 00	0 00	190 99	190 99	30 00	30 00	0 00
EOC Hold 90° Inc. @ 90° AZM									
8,970 00	90 00	90 00	8,850 00	0 00	201 97	201 97	0 00	0 00	0 00
9,000 00	90 00	90 00	8,850 00	0 00	231 97	231 97	0 00	0 00	0 00
9,030 00	90 00	90 00	8,850 00	0 00	261 97	261 97	0 00	0 00	0 00
9,060 00	90 00	90 00	8,850 00	0 00	291 97	291 97	0 00	0 00	0 00
9,090 00	90 00	90 00	8,850 00	0 00	321 97	321 97	0 00	0 00	0 00
9,120 00	90 00	90 00	8,850 00	0 00	351 97	351 97	0 00	0 00	0 00
9,150 00	90 00	90 00	8,850 00	0 00	381 97	381 97	0 00	0 00	0 00
9,180 00	90 00	90 00	8,850 00	0 00	411 97	411 97	0 00	0 00	0 00
9,210 00	90 00	90 00	8,850 00	0 00	441 97	441 97	0 00	0 00	0 00
9,240 00	90 00	90 00	8,850 00	0 00	471 97	471 97	0 00	0 00	0 00
9,270 00	90 00	90 00	8,850 00	0 00	501 97	501 97	0 00	0 00	0 00
9,300 00	90 00	90 00	8,850 00	0 00	531 97	531 97	0 00	0 00	0 00
9,330 00	90 00	90 00	8,850 00	0 00	561 97	561 97	0 00	0 00	0 00
9,360 00	90 00	90 00	8,850 00	0 00	591 97	591 97	0 00	0 00	0 00
9,390 00	90 00	90 00	8,850 00	0 00	621 97	621 97	0 00	0 00	0 00
9,420 00	90 00	90 00	8,850 00	0 00	651 97	651 97	0 00	0 00	0 00
9,450 00	90 00	90 00	8,850 00	0 00	681 97	681 97	0 00	0 00	0 00
9,480 00	90 00	90 00	8,850 00	0 00	711 97	711 97	0 00	0 00	0 00
9,510 00	90 00	90 00	8,850 00	0 00	741 97	741 97	0 00	0 00	0 00
9,540 00	90 00	90 00	8,850 00	0 00	771 97	771 97	0 00	0 00	0 00
9,570 00	90 00	90 00	8,850 00	0 00	801 97	801 97	0 00	0 00	0 00
9,600 00	90 00	90 00	8,850 00	0 00	831 97	831 97	0 00	0 00	0 00
9,630 00	90 00	90 00	8,850 00	0 00	861 97	861 97	0 00	0 00	0 00
9,660 00	90 00	90 00	8,850 00	0 00	891 97	891 97	0 00	0 00	0 00
9,690 00	90 00	90 00	8,850 00	0 00	921 97	921 97	0 00	0 00	0 00
9,720 00	90 00	90 00	8,850 00	0 00	951 97	951 97	0 00	0 00	0 00
9,750 00	90 00	90 00	8,850 00	0 00	981 97	981 97	0 00	0 00	0 00
9,780 00	90 00	90 00	8,850 00	0 00	1,011 97	1,011 97	0 00	0 00	0 00
9,810 00	90 00	90 00	8,850 00	0 00	1,041 97	1,041 97	0 00	0 00	0 00
9,840 00	90 00	90 00	8,850 00	0 00	1,071 97	1,071 97	0 00	0 00	0 00
9,870 00	90 00	90 00	8,850 00	0 00	1,101 97	1,101 97	0 00	0 00	0 00
9,900 00	90 00	90 00	8,850 00	0 00	1,131 97	1,131 97	0 00	0 00	0 00
9,930 00	90 00	90 00	8,850 00	0 00	1,161 97	1,161 97	0 00	0 00	0 00
9,960 00	90 00	90 00	8,850 00	0 00	1,191 97	1,191 97	0 00	0 00	0 00
9,990 00	90 00	90 00	8,850 00	0 00	1,221 97	1,221 97	0 00	0 00	0 00
10,020 00	90 00	90 00	8,850 00	0 00	1,251 97	1,251 97	0 00	0 00	0 00
10,050 00	90 00	90 00	8,850 00	0 00	1,281 97	1,281 97	0 00	0 00	0 00
10,080 00	90 00	90 00	8,850 00	0 00	1,311 97	1,311 97	0 00	0 00	0 00
10,110 00	90 00	90 00	8,850 00	0 00	1,341 97	1,341 97	0 00	0 00	0 00
10,140 00	90 00	90 00	8,850 00	0 00	1,371 97	1,371 97	0 00	0 00	0 00
10,170 00	90 00	90 00	8,850 00	0 00	1,401 97	1,401 97	0 00	0 00	0 00
10,200 00	90 00	90 00	8,850 00	0 00	1,431 97	1,431 97	0 00	0 00	0 00
10,230 00	90 00	90 00	8,850 00	0 00	1,461 97	1,461 97	0 00	0 00	0 00
10,260 00	90 00	90 00	8,850 00	0 00	1,491 97	1,491 97	0 00	0 00	0 00
10,290 00	90 00	90 00	8,850 00	0 00	1,521 97	1,521 97	0 00	0 00	0 00
10,320 00	90 00	90 00	8,850 00	0 00	1,551 97	1,551 97	0 00	0 00	0 00
10,350 00	90 00	90 00	8,850 00	0 00	1,581 97	1,581 97	0 00	0 00	0 00
10,380 00	90 00	90 00	8,850 00	0 00	1,611 97	1,611 97	0 00	0 00	0 00
10,410 00	90 00	90 00	8,850 00	0 00	1,641 97	1,641 97	0 00	0 00	0 00
10,440 00	90 00	90 00	8,850 00	0 00	1,671 97	1,671 97	0 00	0 00	0 00
10,470 00	90 00	90 00	8,850 00	0 00	1,701 97	1,701 97	0 00	0 00	0 00
10,500 00	90 00	90 00	8,850 00	0 00	1,731 97	1,731 97	0 00	0 00	0 00

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10,530.00	90.00	90.00	8,850.00	0.00	1,761.97	1,761.97	0.00	0.00	0.00
10,560.00	90.00	90.00	8,850.00	0.00	1,791.97	1,791.97	0.00	0.00	0.00
10,590.00	90.00	90.00	8,850.00	0.00	1,821.97	1,821.97	0.00	0.00	0.00
10,620.00	90.00	90.00	8,850.00	0.00	1,851.97	1,851.97	0.00	0.00	0.00
10,650.00	90.00	90.00	8,850.00	0.00	1,881.97	1,881.97	0.00	0.00	0.00
10,680.00	90.00	90.00	8,850.00	0.00	1,911.97	1,911.97	0.00	0.00	0.00
10,710.00	90.00	90.00	8,850.00	0.00	1,941.97	1,941.97	0.00	0.00	0.00
10,740.00	90.00	90.00	8,850.00	0.00	1,971.97	1,971.97	0.00	0.00	0.00
10,770.00	90.00	90.00	8,850.00	0.00	2,001.97	2,001.97	0.00	0.00	0.00
10,800.00	90.00	90.00	8,850.00	0.00	2,031.97	2,031.97	0.00	0.00	0.00
10,830.00	90.00	90.00	8,850.00	0.00	2,061.97	2,061.97	0.00	0.00	0.00
10,860.00	90.00	90.00	8,850.00	0.00	2,091.97	2,091.97	0.00	0.00	0.00
10,890.00	90.00	90.00	8,850.00	0.00	2,121.97	2,121.97	0.00	0.00	0.00
10,920.00	90.00	90.00	8,850.00	0.00	2,151.97	2,151.97	0.00	0.00	0.00
10,950.00	90.00	90.00	8,850.00	0.00	2,181.97	2,181.97	0.00	0.00	0.00
10,980.00	90.00	90.00	8,850.00	0.00	2,211.97	2,211.97	0.00	0.00	0.00
11,010.00	90.00	90.00	8,850.00	0.00	2,241.97	2,241.97	0.00	0.00	0.00
11,040.00	90.00	90.00	8,850.00	0.00	2,271.97	2,271.97	0.00	0.00	0.00
11,070.00	90.00	90.00	8,850.00	0.00	2,301.97	2,301.97	0.00	0.00	0.00
11,100.00	90.00	90.00	8,850.00	0.00	2,331.97	2,331.97	0.00	0.00	0.00
11,130.00	90.00	90.00	8,850.00	0.00	2,361.97	2,361.97	0.00	0.00	0.00
11,160.00	90.00	90.00	8,850.00	0.00	2,391.97	2,391.97	0.00	0.00	0.00
11,190.00	90.00	90.00	8,850.00	0.00	2,421.97	2,421.97	0.00	0.00	0.00
11,220.00	90.00	90.00	8,850.00	0.00	2,451.97	2,451.97	0.00	0.00	0.00
11,250.00	90.00	90.00	8,850.00	0.00	2,481.97	2,481.97	0.00	0.00	0.00
11,280.00	90.00	90.00	8,850.00	0.00	2,511.97	2,511.97	0.00	0.00	0.00
11,310.00	90.00	90.00	8,850.00	0.00	2,541.97	2,541.97	0.00	0.00	0.00
11,340.00	90.00	90.00	8,850.00	0.00	2,571.97	2,571.97	0.00	0.00	0.00
11,370.00	90.00	90.00	8,850.00	0.00	2,601.97	2,601.97	0.00	0.00	0.00
11,400.00	90.00	90.00	8,850.00	0.00	2,631.97	2,631.97	0.00	0.00	0.00
11,430.00	90.00	90.00	8,850.00	0.00	2,661.97	2,661.97	0.00	0.00	0.00
11,460.00	90.00	90.00	8,850.00	0.00	2,691.97	2,691.97	0.00	0.00	0.00
11,490.00	90.00	90.00	8,850.00	0.00	2,721.97	2,721.97	0.00	0.00	0.00
11,520.00	90.00	90.00	8,850.00	0.00	2,751.97	2,751.97	0.00	0.00	0.00
11,550.00	90.00	90.00	8,850.00	0.00	2,781.97	2,781.97	0.00	0.00	0.00
11,580.00	90.00	90.00	8,850.00	0.00	2,811.97	2,811.97	0.00	0.00	0.00
11,610.00	90.00	90.00	8,850.00	0.00	2,841.97	2,841.97	0.00	0.00	0.00
11,640.00	90.00	90.00	8,850.00	0.00	2,871.97	2,871.97	0.00	0.00	0.00
11,670.00	90.00	90.00	8,850.00	0.00	2,901.97	2,901.97	0.00	0.00	0.00
11,700.00	90.00	90.00	8,850.00	0.00	2,931.97	2,931.97	0.00	0.00	0.00
11,730.00	90.00	90.00	8,850.00	0.00	2,961.97	2,961.97	0.00	0.00	0.00
11,760.00	90.00	90.00	8,850.00	0.00	2,991.97	2,991.97	0.00	0.00	0.00
11,790.00	90.00	90.00	8,850.00	0.00	3,021.97	3,021.97	0.00	0.00	0.00
11,820.00	90.00	90.00	8,850.00	0.00	3,051.97	3,051.97	0.00	0.00	0.00
11,850.00	90.00	90.00	8,850.00	0.00	3,081.97	3,081.97	0.00	0.00	0.00
11,880.00	90.00	90.00	8,850.00	0.00	3,111.97	3,111.97	0.00	0.00	0.00
11,910.00	90.00	90.00	8,850.00	0.00	3,141.97	3,141.97	0.00	0.00	0.00
11,940.00	90.00	90.00	8,850.00	0.00	3,171.97	3,171.97	0.00	0.00	0.00
11,970.00	90.00	90.00	8,850.00	0.00	3,201.97	3,201.97	0.00	0.00	0.00
12,000.00	90.00	90.00	8,850.00	0.00	3,231.97	3,231.97	0.00	0.00	0.00
12,030.00	90.00	90.00	8,850.00	0.00	3,261.97	3,261.97	0.00	0.00	0.00
12,060.00	90.00	90.00	8,850.00	0.00	3,291.97	3,291.97	0.00	0.00	0.00
12,090.00	90.00	90.00	8,850.00	0.00	3,321.97	3,321.97	0.00	0.00	0.00
12,120.00	90.00	90.00	8,850.00	0.00	3,351.97	3,351.97	0.00	0.00	0.00
12,150.00	90.00	90.00	8,850.00	0.00	3,381.97	3,381.97	0.00	0.00	0.00

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12,180.00	90.00	90.00	8,850.00	0.00	3,411.97	3,411.97	0.00	0.00	0.00
12,210.00	90.00	90.00	8,850.00	0.00	3,441.97	3,441.97	0.00	0.00	0.00
12,240.00	90.00	90.00	8,850.00	0.00	3,471.97	3,471.97	0.00	0.00	0.00
12,270.00	90.00	90.00	8,850.00	0.00	3,501.97	3,501.97	0.00	0.00	0.00
12,300.00	90.00	90.00	8,850.00	0.00	3,531.97	3,531.97	0.00	0.00	0.00
12,330.00	90.00	90.00	8,850.00	0.00	3,561.97	3,561.97	0.00	0.00	0.00
12,360.00	90.00	90.00	8,850.00	0.00	3,591.97	3,591.97	0.00	0.00	0.00
12,390.00	90.00	90.00	8,850.00	0.00	3,621.97	3,621.97	0.00	0.00	0.00
12,420.00	90.00	90.00	8,850.00	0.00	3,651.97	3,651.97	0.00	0.00	0.00
12,450.00	90.00	90.00	8,850.00	0.00	3,681.97	3,681.97	0.00	0.00	0.00
12,480.00	90.00	90.00	8,850.00	0.00	3,711.97	3,711.97	0.00	0.00	0.00
12,510.00	90.00	90.00	8,850.00	0.00	3,741.97	3,741.97	0.00	0.00	0.00
12,540.00	90.00	90.00	8,850.00	0.00	3,771.97	3,771.97	0.00	0.00	0.00
12,570.00	90.00	90.00	8,850.00	0.00	3,801.97	3,801.97	0.00	0.00	0.00
12,600.00	90.00	90.00	8,850.00	0.00	3,831.97	3,831.97	0.00	0.00	0.00
12,630.00	90.00	90.00	8,850.00	0.00	3,861.97	3,861.97	0.00	0.00	0.00
12,660.00	90.00	90.00	8,850.00	0.00	3,891.97	3,891.97	0.00	0.00	0.00
12,690.00	90.00	90.00	8,850.00	0.00	3,921.97	3,921.97	0.00	0.00	0.00
12,720.00	90.00	90.00	8,850.00	0.00	3,951.97	3,951.97	0.00	0.00	0.00
12,750.00	90.00	90.00	8,850.00	0.00	3,981.97	3,981.97	0.00	0.00	0.00
12,780.00	90.00	90.00	8,850.00	0.00	4,011.97	4,011.97	0.00	0.00	0.00
12,810.00	90.00	90.00	8,850.00	0.00	4,041.97	4,041.97	0.00	0.00	0.00
12,840.00	90.00	90.00	8,850.00	0.00	4,071.97	4,071.97	0.00	0.00	0.00
12,870.00	90.00	90.00	8,850.00	0.00	4,101.97	4,101.97	0.00	0.00	0.00
12,900.00	90.00	90.00	8,850.00	0.00	4,131.97	4,131.97	0.00	0.00	0.00
12,930.00	90.00	90.00	8,850.00	0.00	4,161.97	4,161.97	0.00	0.00	0.00
12,960.00	90.00	90.00	8,850.00	0.00	4,191.97	4,191.97	0.00	0.00	0.00
12,990.00	90.00	90.00	8,850.00	0.00	4,221.97	4,221.97	0.00	0.00	0.00
13,020.00	90.00	90.00	8,850.00	0.00	4,251.97	4,251.97	0.00	0.00	0.00
13,050.00	90.00	90.00	8,850.00	0.00	4,281.97	4,281.97	0.00	0.00	0.00
13,080.00	90.00	90.00	8,850.00	0.00	4,311.97	4,311.97	0.00	0.00	0.00
13,110.00	90.00	90.00	8,850.00	0.00	4,341.97	4,341.97	0.00	0.00	0.00
13,140.00	90.00	90.00	8,850.00	0.00	4,371.97	4,371.97	0.00	0.00	0.00
13,170.00	90.00	90.00	8,850.00	0.00	4,401.97	4,401.97	0.00	0.00	0.00
13,200.00	90.00	90.00	8,850.00	0.00	4,431.97	4,431.97	0.00	0.00	0.00
13,230.00	90.00	90.00	8,850.00	0.00	4,461.97	4,461.97	0.00	0.00	0.00
13,260.00	90.00	90.00	8,850.00	0.00	4,491.97	4,491.97	0.00	0.00	0.00
13,290.00	90.00	90.00	8,850.00	0.00	4,521.97	4,521.97	0.00	0.00	0.00
13,320.00	90.00	90.00	8,850.00	0.00	4,551.97	4,551.97	0.00	0.00	0.00
13,350.00	90.00	90.00	8,850.00	0.00	4,581.97	4,581.97	0.00	0.00	0.00
13,380.00	90.00	90.00	8,850.00	0.00	4,611.97	4,611.97	0.00	0.00	0.00
13,392.33	90.00	90.00	8,850.00	0.00	4,624.30	4,624.30	0.00	0.00	0.00

Black Viper Energy

Survey Report

Company: Cimarex Energy Co , Inc
Project: Chaves Co , New Mexico
Site: Lexington 14 Fee #1H
Well: Lexington 14 Fee #1H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Lexington 14 Fee #1H
TVD Reference: WELL @ 4398 00ft (Original Well Elev)
MD Reference: WELL @ 4398 00ft (Original Well Elev)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 Server Db

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL [Lexington 14 Fee	0 00	0 00	8,850 00	0 00	4,624 30	731,415 70	668,315 90	33° 0' 34 258 N	103° 47' 3 396 W
- plan hits target									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,650 00	8,650 00	0 00	0 00	KOP 8650' TVD
8,659 01	8,659 01	0 00	0 00	Build 30°/100 TFO 90°
8,959 01	8,850 00	0 00	190 99	EOC Hold 90° Inc @ 90° AZM

Checked By: _____ Approved By: _____ Date: _____