



30-025-38587

Cimarex Energy Co., Inc.

Lea County (NAD 83)

Maroon '24' Fee #1H

Maroon '24' Fee #1H

Lateral

Plan: Plan #1

Standard Survey Report

11 October, 2007





Black Viper Energy Survey Report



Company: Cimarex Energy Co., Inc.
Project: Lea County (NAD 83)
Site: Maroon '24' Fee #1H
Well: Maroon '24' Fee #1H
Wellbore: Lateral
Design: Plan #1

Local Co-ordinate Reference: Well Maroon '24' Fee #1H
TVD Reference: WELL @ 3774 00ft (Original Well Elev)
MD Reference: WELL @ 3774 00ft (Original Well Elev)
North Reference: Grid
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: Mean Sea Level

Site: Maroon '24' Fee #1H

Site Position: Northing: 731,008 10 ft Latitude: 33° 0' 14 513 N
From: Map Easting: 900,788 50 ft Longitude: 103° 9' 39 067 W
Position Uncertainty: 0 00 ft Slot Radius: Grid Convergence: 0 64 °

Well: Maroon '24' Fee #1H

Well Position: +N/-S 0 00 ft Northing: 731,008 10 ft Latitude: 33° 0' 14 513 N
+E/-W 0 00 ft Easting: 900,788 50 ft Longitude: 103° 9' 39 067 W
Position Uncertainty: 0 00 ft Wellhead Elevation: ft Ground Level: 0 00 ft

Wellbore: Lateral

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/11/2007	7.88	61 09	49,523

Design: Plan #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 9,200 00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0 00	0 00	359 31

Survey Tool Program: Date 10/11/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
9,200 00	11,189 17	Plan #1 (Lateral)	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)
9,200 01	0 00	0 00	9,200 01	0 00	0 00	0 00	0 00	0 00	0 00
KOP - Build 30.0° / 100									
9,210 00	3 00	359 31	9,210 00	0 26	0 00	0 26	30 00	30 00	0 00
9,220 00	6 00	359 31	9,219 96	1 04	-0 01	1 04	30 00	30 00	0 00
9,230 00	9 00	359 31	9,229 88	2 35	-0 03	2 35	30 00	30 00	0 00
9,240 00	12 00	359 31	9,239 71	4 17	-0 05	4 17	30 00	30 00	0 00
9,250 00	15 00	359 31	9,249 43	6 50	-0 08	6 50	30 00	30 00	0 00
9,260 00	18 00	359 31	9,259 02	9 34	-0 11	9 34	30 00	30 00	0 00
9,270 00	21 00	359 31	9,268 44	12 68	-0 15	12 68	30 00	30 00	0 00
9,280 00	24 00	359 31	9,277 68	16 50	-0 20	16 51	30 00	30 00	0 00
9,290 00	27 00	359 31	9,286 71	20 81	-0 25	20 81	30 00	30 00	0 00
9,300 00	30 00	359 31	9,295 49	25 58	-0 31	25 58	30 00	30 00	0 00
9,310 00	33 00	359 31	9,304 02	30 80	-0 37	30 80	30 00	30 00	0 00



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North Reference: Grid
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)
9,320 00	36 00	359 31	9,312 26	36 46	-0 44	36 47	30 00	30 00	0 00
9,330 00	39 00	359 31	9,320 19	42 55	-0 51	42 55	30 00	30 00	0 00
9,340 00	42 00	359 31	9,327 80	49 04	-0 59	49 05	30 00	30 00	0 00
9,350 00	45 00	359 31	9,335 05	55 92	-0 68	55 93	30 00	30 00	0 00
9,360 00	48 00	359 31	9,341 93	63 18	-0 76	63 18	30 00	30 00	0 00
9,370 00	51 00	359 31	9,348 43	70 78	-0 86	70 78	30 00	30 00	0 00
9,380 00	54 00	359 31	9,354 52	78 71	-0 95	78 72	30 00	30 00	0 00
9,390 00	57 00	359 31	9,360 18	86 95	-1 05	86 96	30 00	30 00	0 00
9,400 00	60 00	359 31	9,365 41	95 47	-1 15	95 48	30 00	30 00	0 00
9,410 00	63 00	359 31	9,370 18	104 26	-1 26	104 27	30 00	30 00	0 00
9,411 83	63 54	359 31	9,371 00	105 89	-1 28	105 90	30 00	30 00	0 00
Wolfcamp									
9,420 00	66 00	359 31	9,374 48	113 28	-1 37	113 29	30 00	30 00	0 00
9,430 00	69 00	359 31	9,378 31	122 52	-1 48	122 53	30 00	30 00	0 00
9,440 00	72 00	359 31	9,381 65	131 95	-1 60	131 95	30 00	30 00	0 00
9,450 00	75 00	359 31	9,384 49	141 53	-1 71	141 54	30 00	30 00	0 00
9,460 00	78 00	359 31	9,386 82	151 25	-1 83	151 26	30 00	30 00	0 00
9,470 00	81 00	359 31	9,388 65	161 08	-1 95	161 10	30 00	30 00	0 00
9,480 00	84 00	359 31	9,389 95	171 00	-2 07	171 01	30 00	30 00	0 00
9,490 00	87 00	359 31	9,390 74	180 96	-2 19	180 98	30 00	30 00	0 00
9,500 01	90 00	359 31	9,391 00	190 97	-2 31	190 99	30 00	30 00	0 00
EOC - Hold 90.0° Inc. :: 359.31° Azi									
9,600 00	90 00	359 31	9,391 00	290 95	-3 52	290 97	0 00	0 00	0 00
9,700 00	90 00	359 31	9,391 00	390 94	-4 73	390 97	0 00	0 00	0 00
9,800 00	90 00	359 31	9,391 00	490 94	-5 94	490 97	0 00	0 00	0 00
9,900 00	90 00	359 31	9,391 00	590 93	-7 15	590 97	0 00	0 00	0 00
10,000 00	90 00	359 31	9,391 00	690 92	-8 35	690 97	0 00	0 00	0 00
10,100 00	90 00	359 31	9,391 00	790 91	-9 56	790 97	0 00	0 00	0 00
10,200 00	90 00	359 31	9,391 00	890 91	-10 77	890 97	0 00	0 00	0 00
10,300 00	90 00	359 31	9,391 00	990 90	-11 98	990 97	0 00	0 00	0 00
10,400 00	90 00	359 31	9,391 00	1,090 89	-13 19	1,090 97	0 00	0 00	0 00
10,500 00	90 00	359 31	9,391 00	1,190 88	-14 40	1,190 97	0 00	0 00	0 00
10,600 00	90 00	359 31	9,391 00	1,290 88	-15 61	1,290 97	0 00	0 00	0 00
10,700 00	90 00	359 31	9,391 00	1,390 87	-16 82	1,390 97	0 00	0 00	0 00
10,800 00	90 00	359 31	9,391 00	1,490 86	-18 03	1,490 97	0 00	0 00	0 00
10,900 00	90 00	359 31	9,391 00	1,590 86	-19 24	1,590 97	0 00	0 00	0 00
11,000 00	90 00	359 31	9,391 00	1,690 85	-20 45	1,690 97	0 00	0 00	0 00
11,100 00	90 00	359 31	9,391 00	1,790 84	-21 65	1,790 97	0 00	0 00	0 00
11,189 17	90 00	359 31	9,391 00	1,880 00	-22 73	1,880 14	0 00	0 00	0 00

PBHL#1[M24Fee#1H]



Black Viper Energy
Survey Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 1 0 Server DB

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hit/miss target									
Shape									
PBHL#1[M24Fee#1H]	0 00	0 00	9,391 00	1,880 00	-22 73	732,888 10	900,765 77	33° 0' 33 114 N	103° 9' 39 088 W
- plan hits target									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,411 83	9,371 00	Wolfcamp		0 00	
	9,678 00	Wolfcamp 'B'		0 00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,200 01	9,200 01	0 00	0 00	KOP - Build 30 0° / 100
9,500 01	9,391 00	190 97	-2 31	EOC - Hold 90 0° Inc 359 31° Azi

Checked By: _____ Approved By: _____ Date: _____

Maroon '24' Fee #1H Lateral Plan #1 Report 10-11-07.txt
 Cimarex Energy Co., Inc.
 Maroon '24' Fee #1H - Plan #1

Lea County (NAD 83)
 Maroon '24' Fee #1H

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
9210.00	2.996	359.307	9210.00	0.26 N	0.00 W	0.26
0.00						
9220.00	5.996	359.307	9219.96	1.04 N	0.01 W	1.04
30.00						
9230.00	8.996	359.307	9229.88	2.35 N	0.03 W	2.35
30.00						
9240.00	11.996	359.307	9239.71	4.17 N	0.05 W	4.17
30.00						
9250.00	14.996	359.307	9249.43	6.50 N	0.08 W	6.50
30.00						
9260.00	17.996	359.307	9259.02	9.34 N	0.11 W	9.34
30.00						
9270.00	20.996	359.307	9268.44	12.68 N	0.15 W	12.68
30.00						
9280.00	23.996	359.307	9277.68	16.50 N	0.20 W	16.51
30.00						
9290.00	26.996	359.307	9286.71	20.81 N	0.25 W	20.81
30.00						
9300.00	29.996	359.307	9295.49	25.58 N	0.31 W	25.58
30.00						
9310.00	32.996	359.307	9304.02	30.80 N	0.37 W	30.80
30.00						
9320.00	35.996	359.307	9312.26	36.46 N	0.44 W	36.47
30.00						
9330.00	38.996	359.307	9320.19	42.55 N	0.51 W	42.55
30.00						
9340.00	41.996	359.307	9327.80	49.04 N	0.59 W	49.05
30.00						
9350.00	44.996	359.307	9335.05	55.92 N	0.68 W	55.93
30.00						
9360.00	47.996	359.307	9341.93	63.18 N	0.76 W	63.18
30.00						
9370.00	50.996	359.307	9348.43	70.78 N	0.86 W	70.78
30.00						
9380.00	53.996	359.307	9354.52	78.71 N	0.95 W	78.72
30.00						
9390.00	56.996	359.307	9360.18	86.95 N	1.05 W	86.96
30.00						
9400.00	59.996	359.307	9365.41	95.47 N	1.15 W	95.48
30.00						
9410.00	62.996	359.307	9370.18	104.26 N	1.26 W	104.27
30.00						
9420.00	65.996	359.307	9374.48	113.28 N	1.37 W	113.29
30.00						
9430.00	68.996	359.307	9378.31	122.52 N	1.48 W	122.53
30.00						
9440.00	71.996	359.307	9381.65	131.95 N	1.60 W	131.95
30.00						
9450.00	74.996	359.307	9384.49	141.53 N	1.71 W	141.54
30.00						

Maroon '24' Fee #1H Lateral Plan #1 Report 10-11-07.txt

9460.00	77.996	359.307	9386.82	151.25 N	1.83 W	151.26
30.00						
9470.00	80.996	359.307	9388.65	161.08 N	1.95 W	161.10
30.00						
9480.00	83.996	359.307	9389.95	171.00 N	2.07 W	171.01
30.00						
9490.00	86.996	359.307	9390.74	180.96 N	2.19 W	180.98
30.00						
9500.00	89.996	359.307	9391.00	190.96 N	2.31 W	190.97
30.00						
9510.00	90.000	359.307	9391.00	200.96 N	2.43 W	200.97
0.04						
9520.00	90.000	359.307	9391.00	210.96 N	2.55 W	210.97
0.00						
9530.00	90.000	359.307	9391.00	220.96 N	2.67 W	220.97
0.00						
9540.00	90.000	359.307	9391.00	230.96 N	2.79 W	230.97
0.00						
9550.00	90.000	359.307	9391.00	240.95 N	2.91 W	240.97
0.00						
9560.00	90.000	359.307	9391.00	250.95 N	3.03 W	250.97
0.00						
9570.00	90.000	359.307	9391.00	260.95 N	3.16 W	260.97
0.00						
9580.00	90.000	359.307	9391.00	270.95 N	3.28 W	270.97
0.00						
9590.00	90.000	359.307	9391.00	280.95 N	3.40 W	280.97
0.00						
9600.00	90.000	359.307	9391.00	290.95 N	3.52 W	290.97
0.00						
9610.00	90.000	359.307	9391.00	300.95 N	3.64 W	300.97
0.00						
9620.00	90.000	359.307	9391.00	310.95 N	3.76 W	310.97
0.00						
9630.00	90.000	359.307	9391.00	320.95 N	3.88 W	320.97
0.00						
9640.00	90.000	359.307	9391.00	330.95 N	4.00 W	330.97
0.00						
9650.00	90.000	359.307	9391.00	340.95 N	4.12 W	340.97
0.00						
9660.00	90.000	359.307	9391.00	350.95 N	4.24 W	350.97
0.00						
9670.00	90.000	359.307	9391.00	360.95 N	4.36 W	360.97
0.00						
9680.00	90.000	359.307	9391.00	370.94 N	4.49 W	370.97
0.00						
9690.00	90.000	359.307	9391.00	380.94 N	4.61 W	380.97
0.00						
9700.00	90.000	359.307	9391.00	390.94 N	4.73 W	390.97
0.00						
9710.00	90.000	359.307	9391.00	400.94 N	4.85 W	400.97
0.00						
9720.00	90.000	359.307	9391.00	410.94 N	4.97 W	410.97
0.00						
9730.00	90.000	359.307	9391.00	420.94 N	5.09 W	420.97
0.00						
9740.00	90.000	359.307	9391.00	430.94 N	5.21 W	430.97
0.00						
9750.00	90.000	359.307	9391.00	440.94 N	5.33 W	440.97
0.00						
9760.00	90.000	359.307	9391.00	450.94 N	5.45 W	450.97
0.00						
9770.00	90.000	359.307	9391.00	460.94 N	5.57 W	460.97

Maroon '24' Fee #1H Lateral Plan #1 Report 10-11-07.txt

0.00							
9780.00	90.000	359.307	9391.00	470.94	N	5.69	W 470.97
0.00							
9790.00	90.000	359.307	9391.00	480.94	N	5.82	W 480.97
0.00							
9800.00	90.000	359.307	9391.00	490.94	N	5.94	W 490.97
0.00							
9810.00	90.000	359.307	9391.00	500.94	N	6.06	W 500.97
0.00							
9820.00	90.000	359.307	9391.00	510.93	N	6.18	W 510.97
0.00							
9830.00	90.000	359.307	9391.00	520.93	N	6.30	W 520.97
0.00							
9840.00	90.000	359.307	9391.00	530.93	N	6.42	W 530.97
0.00							
9850.00	90.000	359.307	9391.00	540.93	N	6.54	W 540.97
0.00							
9860.00	90.000	359.307	9391.00	550.93	N	6.66	W 550.97
0.00							
9870.00	90.000	359.307	9391.00	560.93	N	6.78	W 560.97
0.00							
9880.00	90.000	359.307	9391.00	570.93	N	6.90	W 570.97
0.00							
9890.00	90.000	359.307	9391.00	580.93	N	7.02	W 580.97
0.00							
9900.00	90.000	359.307	9391.00	590.93	N	7.15	W 590.97
0.00							
9910.00	90.000	359.307	9391.00	600.93	N	7.27	W 600.97
0.00							
9920.00	90.000	359.307	9391.00	610.93	N	7.39	W 610.97
0.00							
9930.00	90.000	359.307	9391.00	620.93	N	7.51	W 620.97
0.00							
9940.00	90.000	359.307	9391.00	630.93	N	7.63	W 630.97
0.00							
9950.00	90.000	359.307	9391.00	640.93	N	7.75	W 640.97
0.00							
9960.00	90.000	359.307	9391.00	650.92	N	7.87	W 650.97
0.00							
9970.00	90.000	359.307	9391.00	660.92	N	7.99	W 660.97
0.00							
9980.00	90.000	359.307	9391.00	670.92	N	8.11	W 670.97
0.00							
9990.00	90.000	359.307	9391.00	680.92	N	8.23	W 680.97
0.00							
10000.00	90.000	359.307	9391.00	690.92	N	8.35	W 690.97
0.00							
10010.00	90.000	359.307	9391.00	700.92	N	8.48	W 700.97
0.00							
10020.00	90.000	359.307	9391.00	710.92	N	8.60	W 710.97
0.00							
10030.00	90.000	359.307	9391.00	720.92	N	8.72	W 720.97
0.00							
10040.00	90.000	359.307	9391.00	730.92	N	8.84	W 730.97
0.00							
10050.00	90.000	359.307	9391.00	740.92	N	8.96	W 740.97
0.00							
10060.00	90.000	359.307	9391.00	750.92	N	9.08	W 750.97
0.00							
10070.00	90.000	359.307	9391.00	760.92	N	9.20	W 760.97
0.00							
10080.00	90.000	359.307	9391.00	770.92	N	9.32	W 770.97
0.00							

	Maroon '24'	Fee	#1H Lateral	Plan #1	Report	10-11-07.txt	
10090.00	90.000	359.307	9391.00	780.91	N	9.44 W	780.97
0.00							
10100.00	90.000	359.307	9391.00	790.91	N	9.56 W	790.97
0.00							
10110.00	90.000	359.307	9391.00	800.91	N	9.68 W	800.97
0.00							
10120.00	90.000	359.307	9391.00	810.91	N	9.81 W	810.97
0.00							
10130.00	90.000	359.307	9391.00	820.91	N	9.93 W	820.97
0.00							
10140.00	90.000	359.307	9391.00	830.91	N	10.05 W	830.97
0.00							
10150.00	90.000	359.307	9391.00	840.91	N	10.17 W	840.97
0.00							
10160.00	90.000	359.307	9391.00	850.91	N	10.29 W	850.97
0.00							
10170.00	90.000	359.307	9391.00	860.91	N	10.41 W	860.97
0.00							
10180.00	90.000	359.307	9391.00	870.91	N	10.53 W	870.97
0.00							
10190.00	90.000	359.307	9391.00	880.91	N	10.65 W	880.97
0.00							
10200.00	90.000	359.307	9391.00	890.91	N	10.77 W	890.97
0.00							
10210.00	90.000	359.307	9391.00	900.91	N	10.89 W	900.97
0.00							
10220.00	90.000	359.307	9391.00	910.91	N	11.01 W	910.97
0.00							
10230.00	90.000	359.307	9391.00	920.90	N	11.14 W	920.97
0.00							
10240.00	90.000	359.307	9391.00	930.90	N	11.26 W	930.97
0.00							
10250.00	90.000	359.307	9391.00	940.90	N	11.38 W	940.97
0.00							
10260.00	90.000	359.307	9391.00	950.90	N	11.50 W	950.97
0.00							
10270.00	90.000	359.307	9391.00	960.90	N	11.62 W	960.97
0.00							
10280.00	90.000	359.307	9391.00	970.90	N	11.74 W	970.97
0.00							
10290.00	90.000	359.307	9391.00	980.90	N	11.86 W	980.97
0.00							
10300.00	90.000	359.307	9391.00	990.90	N	11.98 W	990.97
0.00							
10310.00	90.000	359.307	9391.00	1000.90	N	12.10 W	1000.97
0.00							
10320.00	90.000	359.307	9391.00	1010.90	N	12.22 W	1010.97
0.00							
10330.00	90.000	359.307	9391.00	1020.90	N	12.34 W	1020.97
0.00							
10340.00	90.000	359.307	9391.00	1030.90	N	12.47 W	1030.97
0.00							
10350.00	90.000	359.307	9391.00	1040.90	N	12.59 W	1040.97
0.00							
10360.00	90.000	359.307	9391.00	1050.90	N	12.71 W	1050.97
0.00							
10370.00	90.000	359.307	9391.00	1060.89	N	12.83 W	1060.97
0.00							
10380.00	90.000	359.307	9391.00	1070.89	N	12.95 W	1070.97
0.00							
10390.00	90.000	359.307	9391.00	1080.89	N	13.07 W	1080.97
0.00							
10400.00	90.000	359.307	9391.00	1090.89	N	13.19 W	1090.97

Maroon '24' Fee #1H Lateral Plan #1 Report 10-11-07.txt

0.00							
10410.00	90.000	359.307	9391.00	1100.89 N	13.31 W	1100.97	
0.00							
10420.00	90.000	359.307	9391.00	1110.89 N	13.43 W	1110.97	
0.00							
10430.00	90.000	359.307	9391.00	1120.89 N	13.55 W	1120.97	
0.00							
10440.00	90.000	359.307	9391.00	1130.89 N	13.67 W	1130.97	
0.00							
10450.00	90.000	359.307	9391.00	1140.89 N	13.80 W	1140.97	
0.00							
10460.00	90.000	359.307	9391.00	1150.89 N	13.92 W	1150.97	
0.00							
10470.00	90.000	359.307	9391.00	1160.89 N	14.04 W	1160.97	
0.00							
10480.00	90.000	359.307	9391.00	1170.89 N	14.16 W	1170.97	
0.00							
10490.00	90.000	359.307	9391.00	1180.89 N	14.28 W	1180.97	
0.00							
10500.00	90.000	359.307	9391.00	1190.88 N	14.40 W	1190.97	
0.00							
10510.00	90.000	359.307	9391.00	1200.88 N	14.52 W	1200.97	
0.00							
10520.00	90.000	359.307	9391.00	1210.88 N	14.64 W	1210.97	
0.00							
10530.00	90.000	359.307	9391.00	1220.88 N	14.76 W	1220.97	
0.00							
10540.00	90.000	359.307	9391.00	1230.88 N	14.88 W	1230.97	
0.00							
10550.00	90.000	359.307	9391.00	1240.88 N	15.00 W	1240.97	
0.00							
10560.00	90.000	359.307	9391.00	1250.88 N	15.13 W	1250.97	
0.00							
10570.00	90.000	359.307	9391.00	1260.88 N	15.25 W	1260.97	
0.00							
10580.00	90.000	359.307	9391.00	1270.88 N	15.37 W	1270.97	
0.00							
10590.00	90.000	359.307	9391.00	1280.88 N	15.49 W	1280.97	
0.00							
10600.00	90.000	359.307	9391.00	1290.88 N	15.61 W	1290.97	
0.00							
10610.00	90.000	359.307	9391.00	1300.88 N	15.73 W	1300.97	
0.00							
10620.00	90.000	359.307	9391.00	1310.88 N	15.85 W	1310.97	
0.00							
10630.00	90.000	359.307	9391.00	1320.88 N	15.97 W	1320.97	
0.00							
10640.00	90.000	359.307	9391.00	1330.87 N	16.09 W	1330.97	
0.00							
10650.00	90.000	359.307	9391.00	1340.87 N	16.21 W	1340.97	
0.00							
10660.00	90.000	359.307	9391.00	1350.87 N	16.33 W	1350.97	
0.00							
10670.00	90.000	359.307	9391.00	1360.87 N	16.46 W	1360.97	
0.00							
10680.00	90.000	359.307	9391.00	1370.87 N	16.58 W	1370.97	
0.00							
10690.00	90.000	359.307	9391.00	1380.87 N	16.70 W	1380.97	
0.00							
10700.00	90.000	359.307	9391.00	1390.87 N	16.82 W	1390.97	
0.00							
10710.00	90.000	359.307	9391.00	1400.87 N	16.94 W	1400.97	
0.00							

Maroon '24' Fee #1H Lateral Plan #1 Report 10-11-07.txt

10720.00	90.000	359.307	9391.00	1410.87 N	17.06 W	1410.97
0.00						
10730.00	90.000	359.307	9391.00	1420.87 N	17.18 W	1420.97
0.00						
10740.00	90.000	359.307	9391.00	1430.87 N	17.30 W	1430.97
0.00						
10750.00	90.000	359.307	9391.00	1440.87 N	17.42 W	1440.97
0.00						
10760.00	90.000	359.307	9391.00	1450.87 N	17.54 W	1450.97
0.00						
10770.00	90.000	359.307	9391.00	1460.87 N	17.66 W	1460.97
0.00						
10780.00	90.000	359.307	9391.00	1470.86 N	17.79 W	1470.97
0.00						
10790.00	90.000	359.307	9391.00	1480.86 N	17.91 W	1480.97
0.00						
10800.00	90.000	359.307	9391.00	1490.86 N	18.03 W	1490.97
0.00						
10810.00	90.000	359.307	9391.00	1500.86 N	18.15 W	1500.97
0.00						
10820.00	90.000	359.307	9391.00	1510.86 N	18.27 W	1510.97
0.00						
10830.00	90.000	359.307	9391.00	1520.86 N	18.39 W	1520.97
0.00						
10840.00	90.000	359.307	9391.00	1530.86 N	18.51 W	1530.97
0.00						
10850.00	90.000	359.307	9391.00	1540.86 N	18.63 W	1540.97
0.00						
10860.00	90.000	359.307	9391.00	1550.86 N	18.75 W	1550.97
0.00						
10870.00	90.000	359.307	9391.00	1560.86 N	18.87 W	1560.97
0.00						
10880.00	90.000	359.307	9391.00	1570.86 N	18.99 W	1570.97
0.00						
10890.00	90.000	359.307	9391.00	1580.86 N	19.12 W	1580.97
0.00						
10900.00	90.000	359.307	9391.00	1590.86 N	19.24 W	1590.97
0.00						
10910.00	90.000	359.307	9391.00	1600.85 N	19.36 W	1600.97
0.00						
10920.00	90.000	359.307	9391.00	1610.85 N	19.48 W	1610.97
0.00						
10930.00	90.000	359.307	9391.00	1620.85 N	19.60 W	1620.97
0.00						
10940.00	90.000	359.307	9391.00	1630.85 N	19.72 W	1630.97
0.00						
10950.00	90.000	359.307	9391.00	1640.85 N	19.84 W	1640.97
0.00						
10960.00	90.000	359.307	9391.00	1650.85 N	19.96 W	1650.97
0.00						
10970.00	90.000	359.307	9391.00	1660.85 N	20.08 W	1660.97
0.00						
10980.00	90.000	359.307	9391.00	1670.85 N	20.20 W	1670.97
0.00						
10990.00	90.000	359.307	9391.00	1680.85 N	20.32 W	1680.97
0.00						
11000.00	90.000	359.307	9391.00	1690.85 N	20.45 W	1690.97
0.00						
11010.00	90.000	359.307	9391.00	1700.85 N	20.57 W	1700.97
0.00						
11020.00	90.000	359.307	9391.00	1710.85 N	20.69 W	1710.97
0.00						
11030.00	90.000	359.307	9391.00	1720.85 N	20.81 W	1720.97

Maroon '24' Fee #1H Lateral Plan #1 Report 10-11-07.txt

0.00						
11040.00	90.000	359.307	9391.00	1730.85 N	20.93 W	1730.97
0.00						
11050.00	90.000	359.307	9391.00	1740.84 N	21.05 W	1740.97
0.00						
11060.00	90.000	359.307	9391.00	1750.84 N	21.17 W	1750.97
0.00						
11070.00	90.000	359.307	9391.00	1760.84 N	21.29 W	1760.97
0.00						
11080.00	90.000	359.307	9391.00	1770.84 N	21.41 W	1770.97
0.00						
11090.00	90.000	359.307	9391.00	1780.84 N	21.53 W	1780.97
0.00						
11100.00	90.000	359.307	9391.00	1790.84 N	21.65 W	1790.97
0.00						
11110.00	90.000	359.307	9391.00	1800.84 N	21.78 W	1800.97
0.00						
11120.00	90.000	359.307	9391.00	1810.84 N	21.90 W	1810.97
0.00						
11130.00	90.000	359.307	9391.00	1820.84 N	22.02 W	1820.97
0.00						
11140.00	90.000	359.307	9391.00	1830.84 N	22.14 W	1830.97
0.00						
11150.00	90.000	359.307	9391.00	1840.84 N	22.26 W	1840.97
0.00						
11160.00	90.000	359.307	9391.00	1850.84 N	22.38 W	1850.97
0.00						
11170.00	90.000	359.307	9391.00	1860.84 N	22.50 W	1860.97
0.00						
11180.00	90.000	359.307	9391.00	1870.84 N	22.62 W	1870.97
0.00						
11189.17	90.000	359.307	9391.00	1880.00 N	22.73 W	1880.14
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 359.307° (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 0.639°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11189.17ft., the Bottom Hole Displacement is 1880.14ft., in the Direction of 359.307° (Grid).

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

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-38586		Pool Code 17290	Pool Name Denton; Wolfcamp
Property Code 36772	Property Name TORREYS "7" FEE		Well Number 1
GRID No. 215099	Operator Name CIMAREX ENERGY CO.		Elevation 3775'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	15 S	38 E		430	SOUTH	430	WEST	LEA

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
L	7	15 S	38 E		2310	SOUTH	430	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		OPERATOR CERTIFICATION <i>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</i> <i>Natalie Krueger</i> 10-11-07 Signature Date Natalie Krueger Printed Name	
		SURVEYOR CERTIFICATION <i>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</i> SEPTEMBER 27, 2007 Date Surveyed GARY L. JONES Signature Professional Surveyor WY 18663 Certificate No. Gary L. Jones 7977 BASIN SURVEYS	
BOTTOM HOLE LOCATION Lat - N33°01'51.3" Long - W103°08'37.0" NMSPCE - N 740846.476 E 905958.317 (NAD-83)			
SURFACE LOCATION Lat - N33°01'32.68" Long - W103°08'37.08" NMSPCF - N 738966.6 E 905979.9 (NAD-83)			
Torreys 7 Fee #1			