

30-005-29132



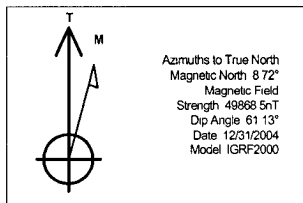
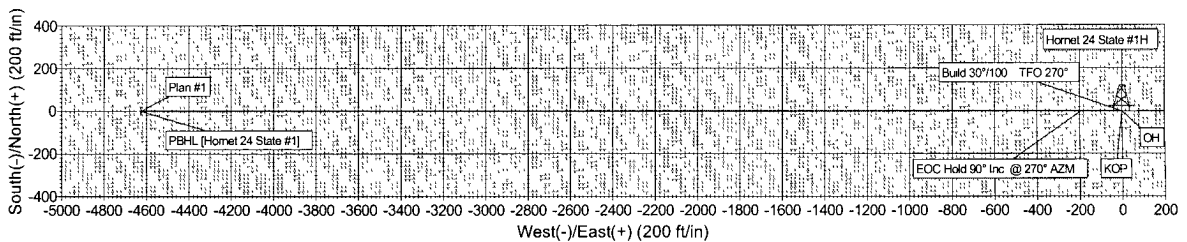
Project Chaves Co., New Mexico
 Site Homet 24 State #1H
 Well Homet 24 State #1H
 Wellbore Lateral #1
 Plan Plan #1 (Homet 24 State #1H/Lateral #1)



PROJECT DETAILS Chaves Co., New Mexico
 Geodetic System US State Plane 1927 (Exact solution)
 Datum NAD 1927 (NADCON CONUS)
 Ellipsoid Clarke 1866
 Zone New Mexico East 3001
 System Datum Mean Sea Level

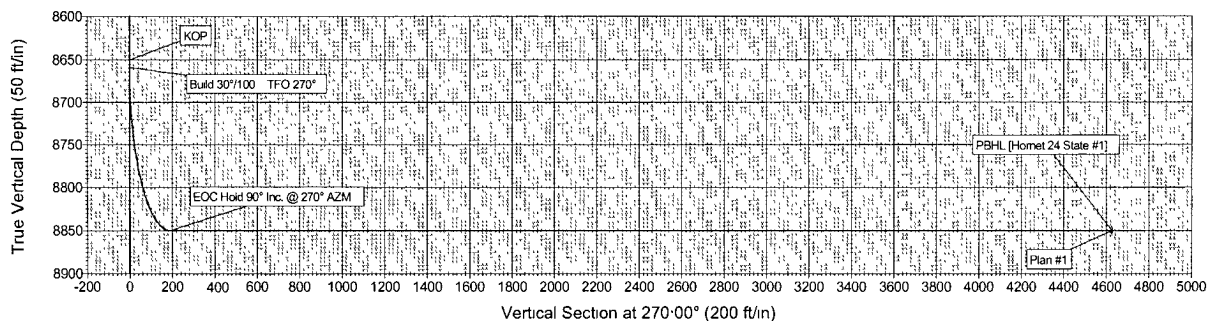
ANNOTATIONS

TVD	MD	Annotation
8650.00	8650.00	KOP
8659.01	8659.01	Build 30°/100' TFO 270°
8850.00	8959.01	EOC Hold 90° Inc @ 270° AZM



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8650.00	0.00	0.00	8650.00	0.00	0.00	0.00	0.00	0.00	
2	8659.01	0.00	0.00	8659.01	0.00	0.00	0.00	0.00	0.00	
3	8959.01	90.00	270.00	8850.00	0.00	-190.99	30.00	270.00	0.00	
4	13394.13	90.00	270.00	8850.00	0.00	-4626.10	0.00	0.00	0.00	PBHL (Homet 24 State #1)



Plan Plan #1 (Homet 24 State #1H/Lateral #1)
 Created By Heather Vannoy Date December 27, 2007

Cimarex Energy Co., Inc.

Chaves Co., New Mexico

Hornet 24 State #1H

Hornet 24 State #1H

Lateral #1

Plan: Plan #1

Standard Survey Report

27 December, 2007

Black Viper Energy

Survey Report

Company:	Cimarex Energy Co , Inc	Local Co-ordinate Reference:	Well Hornet 24 State #1H
Project:	Chaves Co , New Mexico	TVD Reference:	WELL @ 4357 00ft (Original Well Elev)
Site:	Hornet 24 State #1H	MD Reference:	WELL @ 4357 00ft (Original Well Elev)
Well:	Hornet 24 State #1H	North Reference:	True
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14 Server Db

Project	Chaves Co , New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Hornet 24 State #1H		
Site Position:		Northing:	730,762 50 ft
From:	Map	Easting:	673,603 00 ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	33° 0' 27 517 N
		Longitude:	103° 46' 1 351 W
		Grid Convergence:	0 31 °

Well	Hornet 24 State #1H		
Well Position	+N/-S	0 00 ft	Northing: 730,762 50 ft
	+E/-W	0 00 ft	Easting: 673,603.00 ft
Position Uncertainty	0 00 ft	Wellhead Elevation:	ft
		Latitude:	33° 0' 27 517 N
		Longitude:	103° 46' 1 351 W
		Ground Level:	0 00 ft

Wellbore	Lateral #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2000	12/31/2004	(°)
			8 72
			Dip Angle
			(°)
			61 13
			Field Strength
			(nT)
			49,868

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 8,650 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 00	0 00	0 00
			Direction
			(°)
			270 00

Survey Tool Program	Date 12/27/2007		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
8,650 00	13,394 13	Plan #1 (Lateral #1)	MWD
			Description
			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)	
8,650 00	0 00	0 00	8,650 00	0 00	0 00	0 00	0 00	0 00	0 00	
KOP										
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 270°										
8,670 00	3 30	270 00	8,669 99	0 00	-0 32	0 32	30 00	30 00	0 00	
8,700 00	12 30	270 00	8,699 69	0 00	-4 38	4 38	30 00	30 00	0 00	
8,730 00	21 30	270 00	8,728 38	0 00	-13 04	13 04	30 00	30 00	0 00	
8,760 00	30 30	270 00	8,755 36	0 00	-26 08	26 08	30 00	30 00	0 00	
8,790 00	39 30	270 00	8,779 97	0 00	-43 18	43 18	30 00	30 00	0 00	
8,820 00	48 30	270 00	8,801 60	0 00	-63 93	63 93	30 00	30 00	0 00	
8,850 00	57 30	270 00	8,819 72	0 00	-87 80	87 80	30 00	30 00	0 00	
8,880 00	66 30	270 00	8,833 89	0 00	-114 21	114 21	30 00	30 00	0 00	
8,910 00	75 30	270 00	8,843 74	0 00	-142 51	142 51	30 00	30 00	0 00	

Black Viper Energy

Survey Report

Company: Cimarex Energy Co., Inc.
Project: Chaves Co , New Mexico
Site: Hornet 24 State #1H
Well: Hornet 24 State #1H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Hornet 24 State #1H
TVD Reference: WELL @ 4357 00ft (Original Well Elev)
MD Reference: WELL @ 4357 00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)
8,940 00	84 30	270 00	8,849 05	0 00	-172 00	172 00	30 00	30 00	0 00
8,959 01	90 00	270 00	8,850 00	0 00	-190 99	190 99	30 00	30 00	0 00
EOC Hold 90° Inc. @ 270° AZM									
8,970 00	90 00	270 00	8,850 00	0 00	-201 97	201 97	0 00	0 00	0 00
9,000 00	90 00	270 00	8,850 00	0 00	-231 97	231 97	0 00	0 00	0 00
9,030 00	90 00	270 00	8,850 00	0 00	-261 97	261 97	0 00	0 00	0 00
9,060 00	90 00	270 00	8,850 00	0 00	-291 97	291 97	0 00	0 00	0 00
9,090 00	90 00	270 00	8,850 00	0 00	-321 97	321 97	0 00	0 00	0 00
9,120 00	90 00	270 00	8,850 00	0 00	-351 97	351 97	0 00	0 00	0 00
9,150 00	90 00	270 00	8,850 00	0 00	-381 97	381 97	0 00	0 00	0 00
9,180 00	90 00	270 00	8,850 00	0 00	-411 97	411 97	0 00	0 00	0 00
9,210 00	90 00	270 00	8,850 00	0 00	-441 97	441 97	0 00	0 00	0 00
9,240 00	90 00	270 00	8,850 00	0 00	-471 97	471 97	0 00	0 00	0 00
9,270 00	90 00	270 00	8,850 00	0 00	-501 97	501 97	0 00	0 00	0 00
9,300 00	90 00	270 00	8,850 00	0 00	-531 97	531 97	0 00	0 00	0 00
9,330 00	90 00	270 00	8,850 00	0 00	-561 97	561 97	0 00	0 00	0 00
9,360 00	90 00	270 00	8,850 00	0 00	-591 97	591 97	0 00	0 00	0 00
9,390 00	90 00	270 00	8,850 00	0 00	-621 97	621 97	0 00	0 00	0 00
9,420 00	90 00	270 00	8,850 00	0 00	-651 97	651 97	0 00	0 00	0 00
9,450 00	90 00	270 00	8,850 00	0 00	-681 97	681 97	0 00	0 00	0 00
9,480 00	90 00	270 00	8,850 00	0 00	-711 97	711 97	0 00	0 00	0 00
9,510 00	90 00	270 00	8,850 00	0 00	-741 97	741 97	0 00	0 00	0 00
9,540 00	90 00	270 00	8,850 00	0 00	-771 97	771 97	0 00	0 00	0 00
9,570 00	90 00	270 00	8,850 00	0 00	-801 97	801 97	0 00	0 00	0 00
9,600 00	90 00	270 00	8,850 00	0 00	-831 97	831 97	0 00	0 00	0 00
9,630 00	90 00	270 00	8,850 00	0 00	-861 97	861 97	0 00	0 00	0 00
9,660 00	90 00	270 00	8,850 00	0 00	-891 97	891 97	0 00	0 00	0 00
9,690 00	90 00	270 00	8,850 00	0 00	-921 97	921 97	0 00	0 00	0 00
9,720 00	90 00	270 00	8,850 00	0 00	-951 97	951 97	0 00	0 00	0 00
9,750 00	90 00	270 00	8,850 00	0 00	-981 97	981 97	0 00	0 00	0 00
9,780 00	90 00	270 00	8,850 00	0 00	-1,011 97	1,011 97	0 00	0 00	0 00
9,810 00	90 00	270 00	8,850 00	0 00	-1,041 97	1,041 97	0 00	0 00	0 00
9,840 00	90 00	270 00	8,850 00	0 00	-1,071 97	1,071 97	0 00	0 00	0 00
9,870 00	90 00	270 00	8,850 00	0 00	-1,101 97	1,101 97	0 00	0 00	0 00
9,900 00	90 00	270 00	8,850 00	0 00	-1,131 97	1,131 97	0 00	0 00	0 00
9,930 00	90 00	270 00	8,850 00	0 00	-1,161 97	1,161 97	0 00	0 00	0 00
9,960 00	90 00	270 00	8,850 00	0 00	-1,191 97	1,191 97	0 00	0 00	0 00
9,990 00	90 00	270 00	8,850 00	0 00	-1,221 97	1,221 97	0 00	0 00	0 00
10,020 00	90 00	270 00	8,850 00	0 00	-1,251 97	1,251 97	0 00	0 00	0 00
10,050 00	90 00	270 00	8,850 00	0 00	-1,281 97	1,281 97	0 00	0 00	0 00
10,080 00	90 00	270 00	8,850 00	0 00	-1,311 97	1,311 97	0 00	0 00	0 00
10,110 00	90 00	270 00	8,850 00	0 00	-1,341 97	1,341 97	0 00	0 00	0 00
10,140 00	90 00	270 00	8,850 00	0 00	-1,371 97	1,371 97	0 00	0 00	0 00
10,170 00	90 00	270 00	8,850 00	0 00	-1,401 97	1,401 97	0 00	0 00	0 00
10,200 00	90 00	270 00	8,850 00	0 00	-1,431 97	1,431 97	0 00	0 00	0 00
10,230 00	90 00	270 00	8,850 00	0 00	-1,461 97	1,461 97	0 00	0 00	0 00
10,260 00	90 00	270 00	8,850 00	0 00	-1,491 97	1,491 97	0 00	0 00	0 00
10,290 00	90 00	270 00	8,850 00	0 00	-1,521 97	1,521 97	0 00	0 00	0 00
10,320 00	90 00	270 00	8,850 00	0 00	-1,551 97	1,551 97	0 00	0 00	0 00
10,350 00	90 00	270 00	8,850 00	0 00	-1,581 97	1,581 97	0 00	0 00	0 00
10,380 00	90 00	270 00	8,850 00	0 00	-1,611 97	1,611 97	0 00	0 00	0 00
10,410 00	90 00	270 00	8,850 00	0 00	-1,641 97	1,641 97	0 00	0 00	0 00
10,440 00	90 00	270 00	8,850 00	0 00	-1,671 97	1,671 97	0 00	0 00	0 00
10,470 00	90 00	270 00	8,850 00	0 00	-1,701 97	1,701 97	0 00	0 00	0 00
10,500 00	90 00	270 00	8,850 00	0 00	-1,731 97	1,731 97	0 00	0 00	0 00

Black Viper Energy

Survey Report

Company: Cimarex Energy Co , Inc
Project: Chaves Co , New Mexico
Site: Hornet 24 State #1H
Well: Hornet 24 State #1H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Hornet 24 State #1H
TVD Reference: WELL @ 4357 00ft (Original Well Elev)
MD Reference: WELL @ 4357 00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
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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)
10,530.00	90.00	270.00	8,850.00	0.00	-1,761.97	1,761.97	0.00	0.00	0.00
10,560.00	90.00	270.00	8,850.00	0.00	-1,791.97	1,791.97	0.00	0.00	0.00
10,590.00	90.00	270.00	8,850.00	0.00	-1,821.97	1,821.97	0.00	0.00	0.00
10,620.00	90.00	270.00	8,850.00	0.00	-1,851.97	1,851.97	0.00	0.00	0.00
10,650.00	90.00	270.00	8,850.00	0.00	-1,881.97	1,881.97	0.00	0.00	0.00
10,680.00	90.00	270.00	8,850.00	0.00	-1,911.97	1,911.97	0.00	0.00	0.00
10,710.00	90.00	270.00	8,850.00	0.00	-1,941.97	1,941.97	0.00	0.00	0.00
10,740.00	90.00	270.00	8,850.00	0.00	-1,971.97	1,971.97	0.00	0.00	0.00
10,770.00	90.00	270.00	8,850.00	0.00	-2,001.97	2,001.97	0.00	0.00	0.00
10,800.00	90.00	270.00	8,850.00	0.00	-2,031.97	2,031.97	0.00	0.00	0.00
10,830.00	90.00	270.00	8,850.00	0.00	-2,061.97	2,061.97	0.00	0.00	0.00
10,860.00	90.00	270.00	8,850.00	0.00	-2,091.97	2,091.97	0.00	0.00	0.00
10,890.00	90.00	270.00	8,850.00	0.00	-2,121.97	2,121.97	0.00	0.00	0.00
10,920.00	90.00	270.00	8,850.00	0.00	-2,151.97	2,151.97	0.00	0.00	0.00
10,950.00	90.00	270.00	8,850.00	0.00	-2,181.97	2,181.97	0.00	0.00	0.00
10,980.00	90.00	270.00	8,850.00	0.00	-2,211.97	2,211.97	0.00	0.00	0.00
11,010.00	90.00	270.00	8,850.00	0.00	-2,241.97	2,241.97	0.00	0.00	0.00
11,040.00	90.00	270.00	8,850.00	0.00	-2,271.97	2,271.97	0.00	0.00	0.00
11,070.00	90.00	270.00	8,850.00	0.00	-2,301.97	2,301.97	0.00	0.00	0.00
11,100.00	90.00	270.00	8,850.00	0.00	-2,331.97	2,331.97	0.00	0.00	0.00
11,130.00	90.00	270.00	8,850.00	0.00	-2,361.97	2,361.97	0.00	0.00	0.00
11,160.00	90.00	270.00	8,850.00	0.00	-2,391.97	2,391.97	0.00	0.00	0.00
11,190.00	90.00	270.00	8,850.00	0.00	-2,421.97	2,421.97	0.00	0.00	0.00
11,220.00	90.00	270.00	8,850.00	0.00	-2,451.97	2,451.97	0.00	0.00	0.00
11,250.00	90.00	270.00	8,850.00	0.00	-2,481.97	2,481.97	0.00	0.00	0.00
11,280.00	90.00	270.00	8,850.00	0.00	-2,511.97	2,511.97	0.00	0.00	0.00
11,310.00	90.00	270.00	8,850.00	0.00	-2,541.97	2,541.97	0.00	0.00	0.00
11,340.00	90.00	270.00	8,850.00	0.00	-2,571.97	2,571.97	0.00	0.00	0.00
11,370.00	90.00	270.00	8,850.00	0.00	-2,601.97	2,601.97	0.00	0.00	0.00
11,400.00	90.00	270.00	8,850.00	0.00	-2,631.97	2,631.97	0.00	0.00	0.00
11,430.00	90.00	270.00	8,850.00	0.00	-2,661.97	2,661.97	0.00	0.00	0.00
11,460.00	90.00	270.00	8,850.00	0.00	-2,691.97	2,691.97	0.00	0.00	0.00
11,490.00	90.00	270.00	8,850.00	0.00	-2,721.97	2,721.97	0.00	0.00	0.00
11,520.00	90.00	270.00	8,850.00	0.00	-2,751.97	2,751.97	0.00	0.00	0.00
11,550.00	90.00	270.00	8,850.00	0.00	-2,781.97	2,781.97	0.00	0.00	0.00
11,580.00	90.00	270.00	8,850.00	0.00	-2,811.97	2,811.97	0.00	0.00	0.00
11,610.00	90.00	270.00	8,850.00	0.00	-2,841.97	2,841.97	0.00	0.00	0.00
11,640.00	90.00	270.00	8,850.00	0.00	-2,871.97	2,871.97	0.00	0.00	0.00
11,670.00	90.00	270.00	8,850.00	0.00	-2,901.97	2,901.97	0.00	0.00	0.00
11,700.00	90.00	270.00	8,850.00	0.00	-2,931.97	2,931.97	0.00	0.00	0.00
11,730.00	90.00	270.00	8,850.00	0.00	-2,961.97	2,961.97	0.00	0.00	0.00
11,760.00	90.00	270.00	8,850.00	0.00	-2,991.97	2,991.97	0.00	0.00	0.00
11,790.00	90.00	270.00	8,850.00	0.00	-3,021.97	3,021.97	0.00	0.00	0.00
11,820.00	90.00	270.00	8,850.00	0.00	-3,051.97	3,051.97	0.00	0.00	0.00
11,850.00	90.00	270.00	8,850.00	0.00	-3,081.97	3,081.97	0.00	0.00	0.00
11,880.00	90.00	270.00	8,850.00	0.00	-3,111.97	3,111.97	0.00	0.00	0.00
11,910.00	90.00	270.00	8,850.00	0.00	-3,141.97	3,141.97	0.00	0.00	0.00
11,940.00	90.00	270.00	8,850.00	0.00	-3,171.97	3,171.97	0.00	0.00	0.00
11,970.00	90.00	270.00	8,850.00	0.00	-3,201.97	3,201.97	0.00	0.00	0.00
12,000.00	90.00	270.00	8,850.00	0.00	-3,231.97	3,231.97	0.00	0.00	0.00
12,030.00	90.00	270.00	8,850.00	0.00	-3,261.97	3,261.97	0.00	0.00	0.00
12,060.00	90.00	270.00	8,850.00	0.00	-3,291.97	3,291.97	0.00	0.00	0.00
12,090.00	90.00	270.00	8,850.00	0.00	-3,321.97	3,321.97	0.00	0.00	0.00
12,120.00	90.00	270.00	8,850.00	0.00	-3,351.97	3,351.97	0.00	0.00	0.00
12,150.00	90.00	270.00	8,850.00	0.00	-3,381.97	3,381.97	0.00	0.00	0.00

Black Viper Energy

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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)
12,180.00	90.00	270.00	8,850.00	0.00	-3,411.97	3,411.97	0.00	0.00	0.00
12,210.00	90.00	270.00	8,850.00	0.00	-3,441.97	3,441.97	0.00	0.00	0.00
12,240.00	90.00	270.00	8,850.00	0.00	-3,471.97	3,471.97	0.00	0.00	0.00
12,270.00	90.00	270.00	8,850.00	0.00	-3,501.97	3,501.97	0.00	0.00	0.00
12,300.00	90.00	270.00	8,850.00	0.00	-3,531.97	3,531.97	0.00	0.00	0.00
12,330.00	90.00	270.00	8,850.00	0.00	-3,561.97	3,561.97	0.00	0.00	0.00
12,360.00	90.00	270.00	8,850.00	0.00	-3,591.97	3,591.97	0.00	0.00	0.00
12,390.00	90.00	270.00	8,850.00	0.00	-3,621.97	3,621.97	0.00	0.00	0.00
12,420.00	90.00	270.00	8,850.00	0.00	-3,651.97	3,651.97	0.00	0.00	0.00
12,450.00	90.00	270.00	8,850.00	0.00	-3,681.97	3,681.97	0.00	0.00	0.00
12,480.00	90.00	270.00	8,850.00	0.00	-3,711.97	3,711.97	0.00	0.00	0.00
12,510.00	90.00	270.00	8,850.00	0.00	-3,741.97	3,741.97	0.00	0.00	0.00
12,540.00	90.00	270.00	8,850.00	0.00	-3,771.97	3,771.97	0.00	0.00	0.00
12,570.00	90.00	270.00	8,850.00	0.00	-3,801.97	3,801.97	0.00	0.00	0.00
12,600.00	90.00	270.00	8,850.00	0.00	-3,831.97	3,831.97	0.00	0.00	0.00
12,630.00	90.00	270.00	8,850.00	0.00	-3,861.97	3,861.97	0.00	0.00	0.00
12,660.00	90.00	270.00	8,850.00	0.00	-3,891.97	3,891.97	0.00	0.00	0.00
12,690.00	90.00	270.00	8,850.00	0.00	-3,921.97	3,921.97	0.00	0.00	0.00
12,720.00	90.00	270.00	8,850.00	0.00	-3,951.97	3,951.97	0.00	0.00	0.00
12,750.00	90.00	270.00	8,850.00	0.00	-3,981.97	3,981.97	0.00	0.00	0.00
12,780.00	90.00	270.00	8,850.00	0.00	-4,011.97	4,011.97	0.00	0.00	0.00
12,810.00	90.00	270.00	8,850.00	0.00	-4,041.97	4,041.97	0.00	0.00	0.00
12,840.00	90.00	270.00	8,850.00	0.00	-4,071.97	4,071.97	0.00	0.00	0.00
12,870.00	90.00	270.00	8,850.00	0.00	-4,101.97	4,101.97	0.00	0.00	0.00
12,900.00	90.00	270.00	8,850.00	0.00	-4,131.97	4,131.97	0.00	0.00	0.00
12,930.00	90.00	270.00	8,850.00	0.00	-4,161.97	4,161.97	0.00	0.00	0.00
12,960.00	90.00	270.00	8,850.00	0.00	-4,191.97	4,191.97	0.00	0.00	0.00
12,990.00	90.00	270.00	8,850.00	0.00	-4,221.97	4,221.97	0.00	0.00	0.00
13,020.00	90.00	270.00	8,850.00	0.00	-4,251.97	4,251.97	0.00	0.00	0.00
13,050.00	90.00	270.00	8,850.00	0.00	-4,281.97	4,281.97	0.00	0.00	0.00
13,080.00	90.00	270.00	8,850.00	0.00	-4,311.97	4,311.97	0.00	0.00	0.00
13,110.00	90.00	270.00	8,850.00	0.00	-4,341.97	4,341.97	0.00	0.00	0.00
13,140.00	90.00	270.00	8,850.00	0.00	-4,371.97	4,371.97	0.00	0.00	0.00
13,170.00	90.00	270.00	8,850.00	0.00	-4,401.97	4,401.97	0.00	0.00	0.00
13,200.00	90.00	270.00	8,850.00	0.00	-4,431.97	4,431.97	0.00	0.00	0.00
13,230.00	90.00	270.00	8,850.00	0.00	-4,461.97	4,461.97	0.00	0.00	0.00
13,260.00	90.00	270.00	8,850.00	0.00	-4,491.97	4,491.97	0.00	0.00	0.00
13,290.00	90.00	270.00	8,850.00	0.00	-4,521.97	4,521.97	0.00	0.00	0.00
13,320.00	90.00	270.00	8,850.00	0.00	-4,551.97	4,551.97	0.00	0.00	0.00
13,350.00	90.00	270.00	8,850.00	0.00	-4,581.97	4,581.97	0.00	0.00	0.00
13,380.00	90.00	270.00	8,850.00	0.00	-4,611.97	4,611.97	0.00	0.00	0.00
13,394.13	90.00	270.00	8,850.00	0.00	-4,626.10	4,626.10	0.00	0.00	0.00

Black Viper Energy

Survey Report

Company: Cimarex Energy Co., Inc
Project: Chaves Co , New Mexico
Site: Hornet 24 State #1H
Well: Hornet 24 State #1H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Hornet 24 State #1H
TVD Reference: WELL @ 4357 00ft (Original Well Elev)
MD Reference: WELL @ 4357 00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 14 Server Db

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL [Hornet 24 State #	0 00	0 00	8,850 00	0 00	-4,626 10	730,737 59	668,976 97	33° 0' 27 514 N	103° 46' 55 675 W
- plan hits target									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
8,650 00	8,650 00	0 00	0 00	KOP
8,659 01	8,659 01	0 00	0 00	Build 30°/100 TFO 270°
8,959 01	8,850 00	0 00	-190 99	EOC Hold 90° Inc @ 270° AZM

Checked By _____ Approved By _____ Date: _____