

30-005-29133



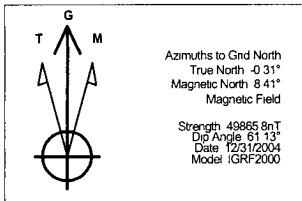
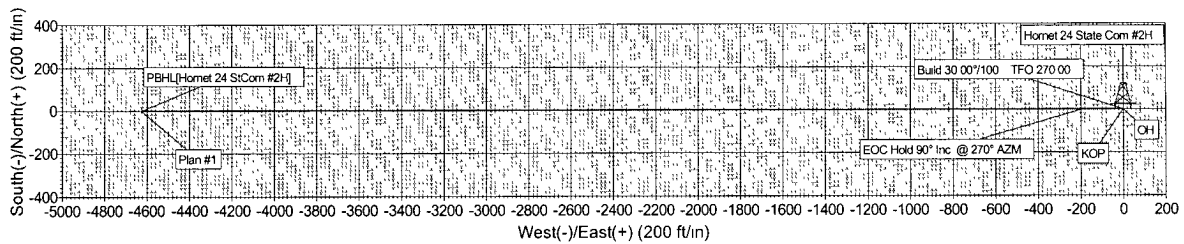
Project Chaves Co., New Mexico
 Site Hornet 24 State Com #2H
 Well Hornet 24 State Com #2H
 Wellbore Lateral #1
 Plan Plan #1 (Hornet 24 State Com #2H/Lateral #1)



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

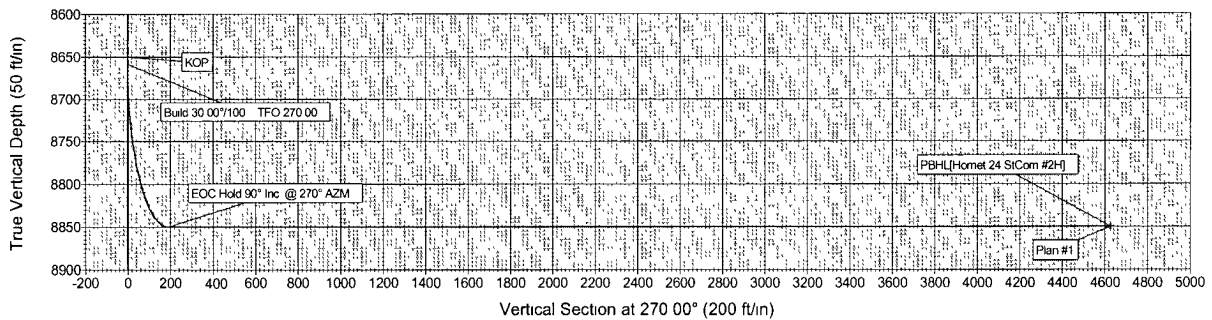
ANNOTATIONS

TVD	MD	Annotation
8650 00	8650 00	KOP
8659 01	8659 01	Build 30 00°/100 TFO 270 00
8650 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	8650 00	0 00	-190 99	30 00	270 00	0 00	
4	13394 83	90 00	270 00	8650 00	0 00	-4626 80	0 00	0 00	0 00	PBHL[Hornet 24 StCom #2H]



Plan Plan #1 (Hornet 24 State Com #2H/Lateral #1)
 Created By Heather Vannoy Date December 28 2007

Cimarex Energy Co., Inc.

Chaves Co., New Mexico

Hornet 24 State Com #2H

Hornet 24 State Com #2H

Lateral #1

Plan: Plan #1

Standard Survey Report

28 December, 2007

Black Viper Energy

Survey Report

Company: Cimarex Energy Co, Inc
Project: Chaves Co, New Mexico
Site: Hornet 24 State Com #2H
Well: Hornet 24 State Com #2H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Hornet 24 State Com #2H
TVD Reference: WELL @ 4356 00ft (Original Well Elev)
MD Reference: WELL @ 4356 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: Hornet 24 State Com #2H

Site Position: Northing: 729,157 90 ft Latitude: 33° 0' 11 640 N
From: Map Easting: 673,611 90 ft Longitude: 103° 46' 1 348 W
Position Uncertainty: 0 00 ft Slot Radius: " Grid Convergence: 0 31 °

Well: Hornet 24 State Com #2H

Well Position +N/-S 0 00 ft Northing: 729,157 90 ft Latitude: 33° 0' 11 640 N
 +E/-W 0 00 ft Easting: 673,611 90 ft Longitude: 103° 46' 1 348 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 72	61 13	49,866

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	270 00

Survey Tool Program Date: 12/28/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
8,650 00	13,394 83	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									
8,659 01	0 00	0 00	8,659 01	0 00	0 00	0 00	0 00	0 00	0 00
Build 30.00°/100 :: TFO 270.00									
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 Com #2H
Well: Hornet 24 State Com #2H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Hornet 24 State Com #2H
TVD Reference: WELL @ 4356 00ft (Original Well Elev)
MD Reference: WELL @ 4356 00ft (Original Well Elev)
North Reference: Grid
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 Com #2H
Well: Hornet 24 State Com #2H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Hornet 24 State Com #2H
TVD Reference: WELL @ 4356 00ft (Original Well Elev)
MD Reference: WELL @ 4356 00ft (Original Well Elev)
North Reference: Grd
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)
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

Survey Report

Company: Cimarex Energy Co., Inc.
Project: Chaves Co., New Mexico
Site: Hornet 24 State Com #2H
Well: Hornet 24 State Com #2H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Hornet 24 State Com #2H
TVD Reference: WELL @ 4356 00ft (Original Well Elev)
MD Reference: WELL @ 4356 00ft (Original Well Elev)
North Reference: Grd
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)
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 83	90 00	270 00	8,850 00	0 00	-4,626 80	4,626 80	0 00	0 00	0 00

Black Viper Energy

Survey Report

Company:	Cimarex Energy Co , Inc	Local Co-ordinate Reference:	Well Hornet 24 State Com #2H
Project:	Chaves Co , New Mexico	TVD Reference:	WELL @ 4356 00ft (Original Well Elev)
Site:	Hornet 24 State Com #2H	MD Reference:	WELL @ 4356 00ft (Original Well Elev)
Well:	Hornet 24 State Com #2H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	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 StCom	0 00	0 00	8,850 00	0 00	-4,626 80	729,157 90	668,985 10	33° 0' 11 883 N	103° 46' 55 677 W
- plan hits target									
- Point									

Plan Annotations

Measured	Vertical	Local Coordinates		Comment
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	
8,650 00	8,650 00	0 00	0 00	KOP
8,659 01	8,659 01	0 00	0 00	Build 30 00°/100 TFO 270 00
8,959 01	8,850 00	0.00	-190 99	EOC Hold 90° Inc @ 270° AZM

Checked By: _____ Approved By: _____ Date _____