

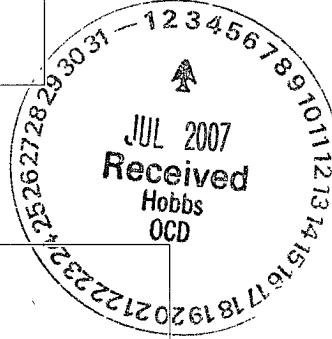


Project Lea County (NAD 83)
 Site Redcloud #2
 Well Redcloud #2
 Wellbore Lateral #1
 Plan Plan #1 (Redcloud #2/Lateral #1)



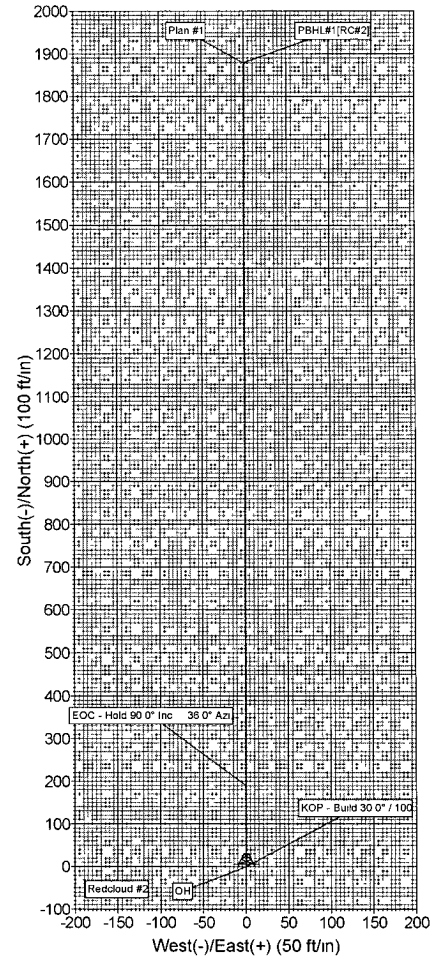
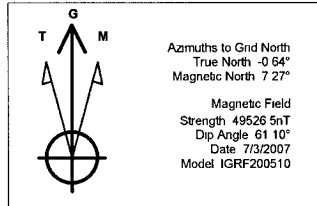
PROJECT DETAILS Lea County (NAD 83)

Geodetic System US State Plane 1983
 Datum North American Datum 1983
 Ellipsoid GRS 1980
 Zone New Mexico Eastern Zone
 System Datum Ground Level



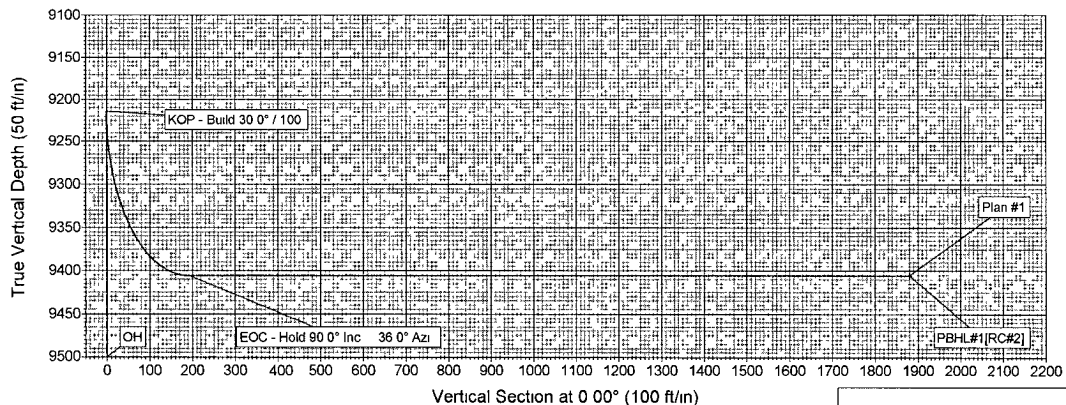
ANNOTATIONS

TVD	MD	Annotation
9214 01	9214 01	KOP - Build 30 0° / 100
9405 00	9514 01	EOC - Hold 90 0° Inc 36 0° Azi



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9214 00	0 00	0 00	9214 00	0 00	0 00	0 00	0 00	0 00	
2	9214 01	0 00	0 00	9214 01	0 00	0 00	0 00	0 00	0 00	
3	9514 01	90 00	0 00	9405 00	190 99	0 00	30 00	0 00	190 99	
4	11203 03	90 00	0 00	9405 00	1880 00	0 00	0 00	0 00	1880 00	PBHL#1[RC#2]



Plan Plan #1 (Redcloud #2/Lateral #1)
 Created By L.D. Burton Date July 3 2007



Cimarex Energy Co., Inc.

Lea County (NAD 83)

Redcloud #2

Redcloud #2

Lateral #1

Plan: Plan #1

Standard Survey Report

03 July, 2007





Black Viper Energy Survey Report



Company:	Cimarex Energy Co., Inc	Local Co-ordinate Reference:	Well Redcloud #2
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3771 00ft (Original Well Elev)
Site:	Redcloud #2	MD Reference:	WELL @ 3771 00ft (Original Well Elev)
Well:	Redcloud #2	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14 10 Server DB

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

Site		Redcloud #2			
Site Position		Northing:	733,657 44ft	Latitude:	33° 0' 40 576 N
From:	Map	Easting:	902,109 85ft	Longitude	103° 9' 23 206 W
Position Uncertainty	0 00 ft	Slot Radius:	"	Grid Convergence:	0 64 °

Well:	Redcloud #2					
Well Position	+N-S	0 00 ft	Northing	733,657 44 ft	Latitude:	33° 0' 40 576 N
	+E-W	0 00 ft	Easting:	902,109 85 ft	Longitude:	103° 9' 23 206 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	7/3/2007	7 91	61 10	49,527

Design:		Plan #1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 9,214 00
Vertical Section:	Depth From (TVD)	+N/S	+E/W	Direction
	(ft)	(ft)	(ft)	(°)
	0 00	0 00	0 00	0 00

Survey Tool Program		Date	7/3/2007	
From	To			
(ft)	(ft)	Survey (Wellbore)	Tool Name	Description
9,214 00	11,203 03	Plan #1 (Lateral #1)	MWD	MWD - Standard

Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
9,214 01	0 00	0 00	9,214 01	0 00	0 00	0 00	0 00	0 00	0 00
9,220 00	1 80	0 00	9,220 00	0 09	0 00	0 09	30 00	30 00	0 00
9,230 00	4 80	0 00	9,229 98	0 67	0 00	0 67	30 00	30 00	0 00
9,240 00	7 80	0 00	9,239 92	1 77	0 00	1 77	30 00	30 00	0 00
9,250 00	10 80	0 00	9,249 79	3 38	0 00	3 38	30 00	30 00	0 00
9,260 00	13 80	0 00	9,259 56	5 51	0 00	5 51	30 00	30 00	0 00
9,270 00	16 80	0 00	9,269 20	8 15	0 00	8 15	30 00	30 00	0 00
9,280 00	19 80	0 00	9,278 69	11 29	0 00	11 29	30 00	30 00	0 00
9,290 00	22 80	0 00	9,288 01	14 92	0 00	14 92	30 00	30 00	0 00
9,300 00	25 80	0 00	9,297 12	19 03	0 00	19 03	30 00	30 00	0 00
9,310 00	28 80	0 00	9,306 01	23 62	0 00	23 62	30 00	30 00	0 00
9,320 00	31 80	0 00	9,314 64	28 66	0 00	28 66	30 00	30 00	0 00
9,330 00	34 80	0 00	9,323 00	34 15	0 00	34 15	30 00	30 00	0 00



Black Viper Energy Survey Report



Company:	Cimarex Energy Co, Inc	Local Co-ordinate Reference:	Well Redcloud #2
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3771 00ft (Original Well Elev)
Site:	Redcloud #2	MD Reference:	WELL @ 3771 00ft (Original Well Elev)
Well:	Redcloud #2	North Reference:	Gnd
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003 14 10 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)	
9,340 00	37 80	0 00	9,331 06	40 07	0 00	40 07	30 00	30 00	0 00	
9,350 00	40 80	0 00	9,338 80	46 40	0 00	46 40	30 00	30 00	0 00	
9,360 00	43 80	0 00	9,346 19	53 13	0 00	53 13	30 00	30 00	0 00	
9,370 00	46 80	0 00	9,353 23	60 24	0 00	60 24	30 00	30 00	0 00	
9,380 00	49 80	0 00	9,359 88	67 70	0 00	67 70	30 00	30 00	0 00	
9,390 00	52 80	0 00	9,366 13	75 50	0 00	75 50	30 00	30 00	0 00	
9,400 00	55 80	0 00	9,371 97	83 62	0 00	83 62	30 00	30 00	0 00	
9,410 00	58 80	0 00	9,377 37	92 04	0 00	92 04	30 00	30 00	0 00	
9,420 00	61 80	0 00	9,382 32	100 72	0 00	100 72	30 00	30 00	0 00	
9,430 00	64 80	0 00	9,386 82	109 66	0 00	109 66	30 00	30 00	0 00	
9,440 00	67 80	0 00	9,390 84	118 81	0 00	118 81	30 00	30 00	0 00	
9,450 00	70 80	0 00	9,394 37	128 16	0 00	128 16	30 00	30 00	0 00	
9,460 00	73 80	0 00	9,397 41	137 69	0 00	137 69	30 00	30 00	0 00	
9,470 00	76 80	0 00	9,399 95	147 36	0 00	147 36	30 00	30 00	0 00	
9,480 00	79 80	0 00	9,401 98	157 15	0 00	157 15	30 00	30 00	0 00	
9,490 00	82 80	0 00	9,403 49	167 04	0 00	167 04	30 00	30 00	0 00	
9,500 00	85 80	0 00	9,404 49	176 98	0 00	176 98	30 00	30 00	0 00	
9,510 00	88 80	0 00	9,404 96	186 97	0 00	186 97	30 00	30 00	0 00	
9,514 01	90 00	0 00	9,405 00	190 99	0 00	190 99	30 00	30 00	0 00	
9,600 00	90 00	0 00	9,405 00	276 97	0 00	276 97	0 00	0 00	0 00	
9,700 00	90 00	0 00	9,405 00	376 97	0 00	376 97	0 00	0 00	0 00	
9,800 00	90 00	0 00	9,405 00	476 97	0 00	476 97	0 00	0 00	0 00	
9,900 00	90 00	0 00	9,405 00	576 97	0 00	576 97	0 00	0 00	0 00	
10,000 00	90 00	0 00	9,405 00	676 97	0 00	676 97	0 00	0 00	0 00	
10,100 00	90 00	0 00	9,405 00	776 97	0 00	776 97	0 00	0 00	0 00	
10,200 00	90 00	0 00	9,405 00	876 97	0 00	876 97	0 00	0 00	0 00	
10,300 00	90 00	0 00	9,405 00	976 97	0 00	976 97	0 00	0 00	0 00	
10,400 00	90 00	0 00	9,405 00	1,076 97	0 00	1,076 97	0 00	0 00	0 00	
10,500 00	90 00	0 00	9,405 00	1,176 97	0 00	1,176 97	0 00	0 00	0 00	
10,600 00	90 00	0 00	9,405 00	1,276 97	0 00	1,276 97	0 00	0 00	0 00	
10,700 00	90 00	0 00	9,405 00	1,376 97	0 00	1,376 97	0 00	0 00	0 00	
10,800 00	90 00	0 00	9,405 00	1,476 97	0 00	1,476 97	0 00	0 00	0 00	
10,900 00	90 00	0 00	9,405 00	1,576 97	0 00	1,576 97	0 00	0 00	0 00	
11,000 00	90 00	0 00	9,405 00	1,676 97	0 00	1,676 97	0 00	0 00	0 00	
11,100 00	90 00	0 00	9,405 00	1,776 97	0 00	1,776 97	0 00	0 00	0 00	
11,203 03	90 00	0 00	9,405 00	1,880 00	0 00	1,880 00	0 00	0 00	0 00	
PBHL#1[RC#2]										



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co, Inc	Local Co-ordinate Reference:	Well Redcloud #2
Project:	Lea County (NAD 83)	TVD Reference:	WELL @ 3771 00ft (Original Well Elev)
Site:	Redcloud #2	MD Reference:	WELL @ 3771 00ft (Original Well Elev)
Well:	Redcloud #2	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM, 2003 14 10 -Server DB

Targets										
Target Name	hit/miss	target Shape	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
PBHL#1[RC#2]			0 00	0 00	9,405 00	1,880 00	0 00	735,537 44	902,109 85	33° 0' 59 174 N 103° 9' 22 959 W
- plan target										
- Point										

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,214 01	9,214 01	0 00	0 00	KOP - Build 30 0° / 100
9,514 01	9,405 00	190 99	0 00	EOC - Hold 90 0° Inc 360 0° Azi

Checked By. _____ Approved By _____ Date. _____

Redcloud #2 Lateral Plan #1 Report 7-3-07.txt
 Cimarex Energy Co., Inc.
 Redcloud #2 - Plan #1

Lea County (NAD 83)
 Redcloud #2

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
9220.00	1.796	0.000	9220.00	0.09 N	0.00 E	0.09
0.00						
9230.00	4.796	0.000	9229.98	0.67 N	0.00 E	0.67
30.00						
9240.00	7.796	0.000	9239.92	1.77 N	0.00 E	1.77
30.00						
9250.00	10.796	0.000	9249.79	3.38 N	0.00 E	3.38
30.00						
9260.00	13.796	0.000	9259.56	5.51 N	0.00 E	5.51
30.00						
9270.00	16.796	0.000	9269.20	8.15 N	0.00 E	8.15
30.00						
9280.00	19.796	0.000	9278.69	11.29 N	0.00 E	11.29
30.00						
9290.00	22.796	0.000	9288.01	14.92 N	0.00 E	14.92
30.00						
9300.00	25.796	0.000	9297.12	19.03 N	0.00 E	19.03
30.00						
9310.00	28.796	0.000	9306.01	23.62 N	0.00 E	23.62
30.00						
9320.00	31.796	0.000	9314.64	28.66 N	0.00 E	28.66
30.00						
9330.00	34.796	0.000	9323.00	34.15 N	0.00 E	34.15
30.00						
9340.00	37.796	0.000	9331.06	40.07 N	0.00 E	40.07
30.00						
9350.00	40.796	0.000	9338.80	46.40 N	0.00 E	46.40
30.00						
9360.00	43.796	0.000	9346.19	53.13 N	0.00 E	53.13
30.00						
9370.00	46.796	0.000	9353.23	60.24 N	0.00 E	60.24
30.00						
9380.00	49.796	0.000	9359.88	67.70 N	0.00 E	67.70
30.00						
9390.00	52.796	0.000	9366.13	75.50 N	0.00 E	75.50
30.00						
9400.00	55.796	0.000	9371.97	83.62 N	0.00 E	83.62
30.00						
9410.00	58.796	0.000	9377.37	92.04 N	0.00 E	92.04
30.00						
9420.00	61.796	0.000	9382.32	100.72 N	0.00 E	100.72
30.00						
9430.00	64.796	0.000	9386.82	109.66 N	0.00 E	109.66
30.00						
9440.00	67.796	0.000	9390.84	118.81 N	0.00 E	118.81
30.00						
9450.00	70.796	0.000	9394.37	128.16 N	0.00 E	128.16
30.00						
9460.00	73.796	0.000	9397.41	137.69 N	0.00 E	137.69
30.00						

Redcloud #2 Lateral Plan #1 Report 7-3-07.txt

9470.00	76.796	0.000	9399.95	147.36 N	0.00 E	147.36
30.00						
9480.00	79.796	0.000	9401.98	157.15 N	0.00 E	157.15
30.00						
9490.00	82.796	0.000	9403.49	167.04 N	0.00 E	167.04
30.00						
9500.00	85.796	0.000	9404.49	176.98 N	0.00 E	176.98
30.00						
9510.00	88.796	0.000	9404.96	186.97 N	0.00 E	186.97
30.00						
9520.00	90.000	0.000	9405.00	196.97 N	0.00 E	196.97
12.04						
9530.00	90.000	0.000	9405.00	206.97 N	0.00 E	206.97
0.00						
9540.00	90.000	0.000	9405.00	216.97 N	0.00 E	216.97
0.00						
9550.00	90.000	0.000	9405.00	226.97 N	0.00 E	226.97
0.00						
9560.00	90.000	0.000	9405.00	236.97 N	0.00 E	236.97
0.00						
9570.00	90.000	0.000	9405.00	246.97 N	0.00 E	246.97
0.00						
9580.00	90.000	0.000	9405.00	256.97 N	0.00 E	256.97
0.00						
9590.00	90.000	0.000	9405.00	266.97 N	0.00 E	266.97
0.00						
9600.00	90.000	0.000	9405.00	276.97 N	0.00 E	276.97
0.00						
9610.00	90.000	0.000	9405.00	286.97 N	0.00 E	286.97
0.00						
9620.00	90.000	0.000	9405.00	296.97 N	0.00 E	296.97
0.00						
9630.00	90.000	0.000	9405.00	306.97 N	0.00 E	306.97
0.00						
9640.00	90.000	0.000	9405.00	316.97 N	0.00 E	316.97
0.00						
9650.00	90.000	0.000	9405.00	326.97 N	0.00 E	326.97
0.00						
9660.00	90.000	0.000	9405.00	336.97 N	0.00 E	336.97
0.00						
9670.00	90.000	0.000	9405.00	346.97 N	0.00 E	346.97
0.00						
9680.00	90.000	0.000	9405.00	356.97 N	0.00 E	356.97
0.00						
9690.00	90.000	0.000	9405.00	366.97 N	0.00 E	366.97
0.00						
9700.00	90.000	0.000	9405.00	376.97 N	0.00 E	376.97
0.00						
9710.00	90.000	0.000	9405.00	386.97 N	0.00 E	386.97
0.00						
9720.00	90.000	0.000	9405.00	396.97 N	0.00 E	396.97
0.00						
9730.00	90.000	0.000	9405.00	406.97 N	0.00 E	406.97
0.00						
9740.00	90.000	0.000	9405.00	416.97 N	0.00 E	416.97
0.00						
9750.00	90.000	0.000	9405.00	426.97 N	0.00 E	426.97
0.00						
9760.00	90.000	0.000	9405.00	436.97 N	0.00 E	436.97
0.00						
9770.00	90.000	0.000	9405.00	446.97 N	0.00 E	446.97
0.00						
9780.00	90.000	0.000	9405.00	456.97 N	0.00 E	456.97

Redcloud #2 Lateral Plan #1 Report 7-3-07.txt

0.00							
9790.00	90.000	0.000	9405.00	466.97 N	0.00 E	466.97	
0.00							
9800.00	90.000	0.000	9405.00	476.97 N	0.00 E	476.97	
0.00							
9810.00	90.000	0.000	9405.00	486.97 N	0.00 E	486.97	
0.00							
9820.00	90.000	0.000	9405.00	496.97 N	0.00 E	496.97	
0.00							
9830.00	90.000	0.000	9405.00	506.97 N	0.00 E	506.97	
0.00							
9840.00	90.000	0.000	9405.00	516.97 N	0.00 E	516.97	
0.00							
9850.00	90.000	0.000	9405.00	526.97 N	0.00 E	526.97	
0.00							
9860.00	90.000	0.000	9405.00	536.97 N	0.00 E	536.97	
0.00							
9870.00	90.000	0.000	9405.00	546.97 N	0.00 E	546.97	
0.00							
9880.00	90.000	0.000	9405.00	556.97 N	0.00 E	556.97	
0.00							
9890.00	90.000	0.000	9405.00	566.97 N	0.00 E	566.97	
0.00							
9900.00	90.000	0.000	9405.00	576.97 N	0.00 E	576.97	
0.00							
9910.00	90.000	0.000	9405.00	586.97 N	0.00 E	586.97	
0.00							
9920.00	90.000	0.000	9405.00	596.97 N	0.00 E	596.97	
0.00							
9930.00	90.000	0.000	9405.00	606.97 N	0.00 E	606.97	
0.00							
9940.00	90.000	0.000	9405.00	616.97 N	0.00 E	616.97	
0.00							
9950.00	90.000	0.000	9405.00	626.97 N	0.00 E	626.97	
0.00							
9960.00	90.000	0.000	9405.00	636.97 N	0.00 E	636.97	
0.00							
9970.00	90.000	0.000	9405.00	646.97 N	0.00 E	646.97	
0.00							
9980.00	90.000	0.000	9405.00	656.97 N	0.00 E	656.97	
0.00							
9990.00	90.000	0.000	9405.00	666.97 N	0.00 E	666.97	
0.00							
10000.00	90.000	0.000	9405.00	676.97 N	0.00 E	676.97	
0.00							
10010.00	90.000	0.000	9405.00	686.97 N	0.00 E	686.97	
0.00							
10020.00	90.000	0.000	9405.00	696.97 N	0.00 E	696.97	
0.00							
10030.00	90.000	0.000	9405.00	706.97 N	0.00 E	706.97	
0.00							
10040.00	90.000	0.000	9405.00	716.97 N	0.00 E	716.97	
0.00							
10050.00	90.000	0.000	9405.00	726.97 N	0.00 E	726.97	
0.00							
10060.00	90.000	0.000	9405.00	736.97 N	0.00 E	736.97	
0.00							
10070.00	90.000	0.000	9405.00	746.97 N	0.00 E	746.97	
0.00							
10080.00	90.000	0.000	9405.00	756.97 N	0.00 E	756.97	
0.00							
10090.00	90.000	0.000	9405.00	766.97 N	0.00 E	766.97	
0.00							

Redcloud #2 Lateral Plan #1 Report 7-3-07.txt

10100.00	90.000	0.000	9405.00	776.97 N	0.00 E	776.97
0.00						
10110.00	90.000	0.000	9405.00	786.97 N	0.00 E	786.97
0.00						
10120.00	90.000	0.000	9405.00	796.97 N	0.00 E	796.97
0.00						
10130.00	90.000	0.000	9405.00	806.97 N	0.00 E	806.97
0.00						
10140.00	90.000	0.000	9405.00	816.97 N	0.00 E	816.97
0.00						
10150.00	90.000	0.000	9405.00	826.97 N	0.00 E	826.97
0.00						
10160.00	90.000	0.000	9405.00	836.97 N	0.00 E	836.97
0.00						
10170.00	90.000	0.000	9405.00	846.97 N	0.00 E	846.97
0.00						
10180.00	90.000	0.000	9405.00	856.97 N	0.00 E	856.97
0.00						
10190.00	90.000	0.000	9405.00	866.97 N	0.00 E	866.97
0.00						
10200.00	90.000	0.000	9405.00	876.97 N	0.00 E	876.97
0.00						
10210.00	90.000	0.000	9405.00	886.97 N	0.00 E	886.97
0.00						
10220.00	90.000	0.000	9405.00	896.97 N	0.00 E	896.97
0.00						
10230.00	90.000	0.000	9405.00	906.97 N	0.00 E	906.97
0.00						
10240.00	90.000	0.000	9405.00	916.97 N	0.00 E	916.97
0.00						
10250.00	90.000	0.000	9405.00	926.97 N	0.00 E	926.97
0.00						
10260.00	90.000	0.000	9405.00	936.97 N	0.00 E	936.97
0.00						
10270.00	90.000	0.000	9405.00	946.97 N	0.00 E	946.97
0.00						
10280.00	90.000	0.000	9405.00	956.97 N	0.00 E	956.97
0.00						
10290.00	90.000	0.000	9405.00	966.97 N	0.00 E	966.97
0.00						
10300.00	90.000	0.000	9405.00	976.97 N	0.00 E	976.97
0.00						
10310.00	90.000	0.000	9405.00	986.97 N	0.00 E	986.97
0.00						
10320.00	90.000	0.000	9405.00	996.97 N	0.00 E	996.97
0.00						
10330.00	90.000	0.000	9405.00	1006.97 N	0.00 E	1006.97
0.00						
10340.00	90.000	0.000	9405.00	1016.97 N	0.00 E	1016.97
0.00						
10350.00	90.000	0.000	9405.00	1026.97 N	0.00 E	1026.97
0.00						
10360.00	90.000	0.000	9405.00	1036.97 N	0.00 E	1036.97
0.00						
10370.00	90.000	0.000	9405.00	1046.97 N	0.00 E	1046.97
0.00						
10380.00	90.000	0.000	9405.00	1056.97 N	0.00 E	1056.97
0.00						
10390.00	90.000	0.000	9405.00	1066.97 N	0.00 E	1066.97
0.00						
10400.00	90.000	0.000	9405.00	1076.97 N	0.00 E	1076.97
0.00						
10410.00	90.000	0.000	9405.00	1086.97 N	0.00 E	1086.97

Redcloud #2 Lateral Plan #1 Report 7-3-07.txt

0.00							
10420.00	90.000	0.000	9405.00	1096.97 N	0.00 E	1096.97	
0.00							
10430.00	90.000	0.000	9405.00	1106.97 N	0.00 E	1106.97	
0.00							
10440.00	90.000	0.000	9405.00	1116.97 N	0.00 E	1116.97	
0.00							
10450.00	90.000	0.000	9405.00	1126.97 N	0.00 E	1126.97	
0.00							
10460.00	90.000	0.000	9405.00	1136.97 N	0.00 E	1136.97	
0.00							
10470.00	90.000	0.000	9405.00	1146.97 N	0.00 E	1146.97	
0.00							
10480.00	90.000	0.000	9405.00	1156.97 N	0.00 E	1156.97	
0.00							
10490.00	90.000	0.000	9405.00	1166.97 N	0.00 E	1166.97	
0.00							
10500.00	90.000	0.000	9405.00	1176.97 N	0.00 E	1176.97	
0.00							
10510.00	90.000	0.000	9405.00	1186.97 N	0.00 E	1186.97	
0.00							
10520.00	90.000	0.000	9405.00	1196.97 N	0.00 E	1196.97	
0.00							
10530.00	90.000	0.000	9405.00	1206.97 N	0.00 E	1206.97	
0.00							
10540.00	90.000	0.000	9405.00	1216.97 N	0.00 E	1216.97	
0.00							
10550.00	90.000	0.000	9405.00	1226.97 N	0.00 E	1226.97	
0.00							
10560.00	90.000	0.000	9405.00	1236.97 N	0.00 E	1236.97	
0.00							
10570.00	90.000	0.000	9405.00	1246.97 N	0.00 E	1246.97	
0.00							
10580.00	90.000	0.000	9405.00	1256.97 N	0.00 E	1256.97	
0.00							
10590.00	90.000	0.000	9405.00	1266.97 N	0.00 E	1266.97	
0.00							
10600.00	90.000	0.000	9405.00	1276.97 N	0.00 E	1276.97	
0.00							
10610.00	90.000	0.000	9405.00	1286.97 N	0.00 E	1286.97	
0.00							
10620.00	90.000	0.000	9405.00	1296.97 N	0.00 E	1296.97	
0.00							
10630.00	90.000	0.000	9405.00	1306.97 N	0.00 E	1306.97	
0.00							
10640.00	90.000	0.000	9405.00	1316.97 N	0.00 E	1316.97	
0.00							
10650.00	90.000	0.000	9405.00	1326.97 N	0.00 E	1326.97	
0.00							
10660.00	90.000	0.000	9405.00	1336.97 N	0.00 E	1336.97	
0.00							
10670.00	90.000	0.000	9405.00	1346.97 N	0.00 E	1346.97	
0.00							
10680.00	90.000	0.000	9405.00	1356.97 N	0.00 E	1356.97	
0.00							
10690.00	90.000	0.000	9405.00	1366.97 N	0.00 E	1366.97	
0.00							
10700.00	90.000	0.000	9405.00	1376.97 N	0.00 E	1376.97	
0.00							
10710.00	90.000	0.000	9405.00	1386.97 N	0.00 E	1386.97	
0.00							
10720.00	90.000	0.000	9405.00	1396.97 N	0.00 E	1396.97	
0.00							

Redcloud #2 Lateral Plan #1 Report 7-3-07.txt

10730.00	90.000	0.000	9405.00	1406.97 N	0.00 E	1406.97
0.00						
10740.00	90.000	0.000	9405.00	1416.97 N	0.00 E	1416.97
0.00						
10750.00	90.000	0.000	9405.00	1426.97 N	0.00 E	1426.97
0.00						
10760.00	90.000	0.000	9405.00	1436.97 N	0.00 E	1436.97
0.00						
10770.00	90.000	0.000	9405.00	1446.97 N	0.00 E	1446.97
0.00						
10780.00	90.000	0.000	9405.00	1456.97 N	0.00 E	1456.97
0.00						
10790.00	90.000	0.000	9405.00	1466.97 N	0.00 E	1466.97
0.00						
10800.00	90.000	0.000	9405.00	1476.97 N	0.00 E	1476.97
0.00						
10810.00	90.000	0.000	9405.00	1486.97 N	0.00 E	1486.97
0.00						
10820.00	90.000	0.000	9405.00	1496.97 N	0.00 E	1496.97
0.00						
10830.00	90.000	0.000	9405.00	1506.97 N	0.00 E	1506.97
0.00						
10840.00	90.000	0.000	9405.00	1516.97 N	0.00 E	1516.97
0.00						
10850.00	90.000	0.000	9405.00	1526.97 N	0.00 E	1526.97
0.00						
10860.00	90.000	0.000	9405.00	1536.97 N	0.00 E	1536.97
0.00						
10870.00	90.000	0.000	9405.00	1546.97 N	0.00 E	1546.97
0.00						
10880.00	90.000	0.000	9405.00	1556.97 N	0.00 E	1556.97
0.00						
10890.00	90.000	0.000	9405.00	1566.97 N	0.00 E	1566.97
0.00						
10900.00	90.000	0.000	9405.00	1576.97 N	0.00 E	1576.97
0.00						
10910.00	90.000	0.000	9405.00	1586.97 N	0.00 E	1586.97
0.00						
10920.00	90.000	0.000	9405.00	1596.97 N	0.00 E	1596.97
0.00						
10930.00	90.000	0.000	9405.00	1606.97 N	0.00 E	1606.97
0.00						
10940.00	90.000	0.000	9405.00	1616.97 N	0.00 E	1616.97
0.00						
10950.00	90.000	0.000	9405.00	1626.97 N	0.00 E	1626.97
0.00						
10960.00	90.000	0.000	9405.00	1636.97 N	0.00 E	1636.97
0.00						
10970.00	90.000	0.000	9405.00	1646.97 N	0.00 E	1646.97
0.00						
10980.00	90.000	0.000	9405.00	1656.97 N	0.00 E	1656.97
0.00						
10990.00	90.000	0.000	9405.00	1666.97 N	0.00 E	1666.97
0.00						
11000.00	90.000	0.000	9405.00	1676.97 N	0.00 E	1676.97
0.00						
11010.00	90.000	0.000	9405.00	1686.97 N	0.00 E	1686.97
0.00						
11020.00	90.000	0.000	9405.00	1696.97 N	0.00 E	1696.97
0.00						
11030.00	90.000	0.000	9405.00	1706.97 N	0.00 E	1706.97
0.00						
11040.00	90.000	0.000	9405.00	1716.97 N	0.00 E	1716.97

Redcloud #2 Lateral Plan #1 Report 7-3-07.txt

0.00						
11050.00	90.000	0.000	9405.00	1726.97 N	0.00 E	1726.97
0.00						
11060.00	90.000	0.000	9405.00	1736.97 N	0.00 E	1736.97
0.00						
11070.00	90.000	0.000	9405.00	1746.97 N	0.00 E	1746.97
0.00						
11080.00	90.000	0.000	9405.00	1756.97 N	0.00 E	1756.97
0.00						
11090.00	90.000	0.000	9405.00	1766.97 N	0.00 E	1766.97
0.00						
11100.00	90.000	0.000	9405.00	1776.97 N	0.00 E	1776.97
0.00						
11110.00	90.000	0.000	9405.00	1786.97 N	0.00 E	1786.97
0.00						
11120.00	90.000	0.000	9405.00	1796.97 N	0.00 E	1796.97
0.00						
11130.00	90.000	0.000	9405.00	1806.97 N	0.00 E	1806.97
0.00						
11140.00	90.000	0.000	9405.00	1816.97 N	0.00 E	1816.97
0.00						
11150.00	90.000	0.000	9405.00	1826.97 N	0.00 E	1826.97
0.00						
11160.00	90.000	0.000	9405.00	1836.97 N	0.00 E	1836.97
0.00						
11170.00	90.000	0.000	9405.00	1846.97 N	0.00 E	1846.97
0.00						
11180.00	90.000	0.000	9405.00	1856.97 N	0.00 E	1856.97
0.00						
11190.00	90.000	0.000	9405.00	1866.97 N	0.00 E	1866.97
0.00						
11200.00	90.000	0.000	9405.00	1876.97 N	0.00 E	1876.97
0.00						
11203.03	90.000	0.000	9405.00	1880.00 N	0.00 E	1880.00
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 slot 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 0.641°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11203.03ft., the Bottom Hole Displacement is 1880.00ft., in the Direction of 0.000° (Grid).