

DISTRICT I
1025 N. French Dr., Hobbs, NM 88240

DISTRICT II
1391 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Bravos 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 30-025-38585	Pool Code 17290	Pool Name Denton; Wolfcamp
Property Code 36771	Property Name BIERSTADT "12" FEE	Well Number 4
GRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3776'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	15 S	37 E		430	SOUTH	1750	EAST	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
J	12	15 S	37 E		2210	SOUTH	1750	EAST	LEA
Dedicated Acres 80	Joint or Infill	Consolidation Code	Order No.						

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

BOTTOM HOLE LOCATION Lat - N33°01'50.4" Long - W103°09'00.5" NMSPCE- N 740731.886 E 903959.501 (HAD-83) SURFACE LOCATION Lat - N33°01'32.77" Long - W103°09'02.68" NMSPCE- N 738951.0 E 903800.2 (HAD-83)		Bierstadt 12 Fee #4		OPERATOR CERTIFICATION 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>Natalie Krueger</i> 10-11-07 Signature Date Natalie Krueger Printed Name
		SURVEYOR CERTIFICATION 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. OCTOBER 02, 2007 Date Surveyed <i>Gary L. Jones</i> Signature & Seal of Surveyor Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS		



30-025-38585

Cimarex Energy Co., Inc.

Lea County (NAD 83)

Bierstadt '12' Fee #4H

Bierstadt '12' Fee #4H

Lateral #1

Plan: Plan #1

Standard Survey Report

10 October, 2007





Black Viper Energy

Survey Report



Company: Cimarex Energy Co, Inc
Project: Lea County (NAD 83)
Site: Bierstadt '12' Fee #4H
Well: Bierstadt '12' Fee #4H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Bierstadt '12' Fee #4H
TVD Reference: WELL @ 3776 00ft (Original Well Elev)
MD Reference: WELL @ 3776 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 Bierstadt '12' Fee #4H

Site Position: Northing: 738,951 00ft Latitude: 33° 1' 32 756 N
From: Map Easting: 903,800 20ft Longitude: 103° 9' 2 659 W
Position Uncertainty: 0 00 ft Slot Radius: " Grid Convergence: 0 64 °

Well Bierstadt '12' Fee #4H

Well Position +N/-S 0 00 ft Northing: 738,951 00 ft Latitude: 33° 1' 32 756 N
+E/-W 0 00 ft Easting: 903,800 20 ft Longitude: 103° 9' 2 659 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	10/5/2007	7 88	61 11	49,510

Design Plan #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 9,164 00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0 00	0 00	5 11

Survey Tool Program Date 10/10/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
9,164 00	11,061 03	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)
9,164 01	0 00	0 00	9,164 01	0 00	0 00	0 00	0 00	0 00	0 00
KOP - Build 30.0° / 100									
9,170 00	1 80	5 11	9,170 00	0 09	0 01	0 09	30 00	30 00	0 00
9,180 00	4 80	5 11	9,179 98	0 67	0 06	0 67	30 00	30 00	0 00
9,190 00	7 80	5 11	9,189 92	1 76	0 16	1 77	30 00	30 00	0 00
9,200 00	10 80	5 11	9,199 79	3 37	0 30	3 38	30 00	30 00	0 00
9,210 00	13 80	5 11	9,209 56	5 49	0 49	5 51	30 00	30 00	0 00
9,220 00	16 80	5 11	9,219 20	8 12	0 73	8 15	30 00	30 00	0 00
9,230 00	19 80	5 11	9,228 69	11 24	1 01	11 29	30 00	30 00	0 00
9,240 00	22 80	5 11	9,238 01	14 86	1 33	14 92	30 00	30 00	0 00
9,250 00	25 80	5 11	9,247 12	18 96	1 70	19 03	30 00	30 00	0 00
9,260 00	28 80	5 11	9,256 01	23 52	2 10	23 62	30 00	30 00	0 00
9,270 00	31 80	5 11	9,264 64	28 55	2 55	28 66	30 00	30 00	0 00



Black Viper Energy Survey Report



Company: Cimarex Energy Co., Inc
Project: Lea County (NAD 83)
Site: Bierstadt '12' Fee #4H
Well: Bierstadt '12' Fee #4H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Bierstadt '12' Fee #4H
WELL @ 3776 00ft (Original Well Elev)
WELL @ 3776 00ft (Original Well Elev)
Gnd
Minimum Curvature
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)
9,280 00	34 80	5 11	9,273 00	34 01	3 04	34 15	30 00	30 00	0 00
9,290 00	37 80	5 11	9,281 06	39 91	3 57	40 07	30 00	30 00	0 00
9,300 00	40.80	5 11	9,288 80	46 22	4 13	46 40	30 00	30 00	0 00
9,310 00	43 80	5 11	9,296 19	52 92	4 73	53 13	30 00	30 00	0 00
9,320 00	46 80	5 11	9,303 23	60 00	5 37	60 24	30 00	30 00	0 00
9,330 00	49 80	5 11	9,309 88	67 43	6 03	67 70	30 00	30 00	0 00
9,340 00	52 80	5 11	9,316 13	75 20	6 73	75 50	30 00	30 00	0 00
9,350 00	55 80	5 11	9,321 97	83 29	7 45	83 62	30 00	30 00	0 00
9,360 00	58 80	5 11	9,327 37	91 67	8 20	92 04	30 00	30 00	0 00
9,370 00	61 80	5 11	9,332 32	100 32	8 97	100 72	30 00	30 00	0 00
9,380 00	64 80	5 11	9,336 82	109 22	9 77	109 66	30 00	30 00	0 00
9,387 82	67 14	5 11	9,340 00	116.33	10 41	116 79	30 00	30 00	0 00
Wolfcamp									
9,390 00	67 80	5 11	9,340 84	118 34	10 59	118 81	30 00	30 00	0 00
9,400 00	70.80	5 11	9,344 37	127 65	11 42	128 16	30 00	30 00	0 00
9,410 00	73 80	5 11	9,347 41	137 14	12 27	137 69	30 00	30 00	0 00
9,420 00	76 80	5 11	9,349.95	146 77	13 13	147 36	30 00	30 00	0 00
9,430 00	79 80	5 11	9,351 98	156 53	14 00	157 15	30 00	30 00	0 00
9,440 00	82 80	5 11	9,353 49	166 37	14 88	167 04	30 00	30 00	0 00
9,450 00	85 80	5 11	9,354 49	176 28	15 77	176 98	30 00	30 00	0 00
9,460 00	88 80	5 11	9,354 96	186 23	16 66	186 97	30 00	30 00	0 00
9,464 01	90 00	5 11	9,355 00	190 23	17 02	190 99	30 00	30 00	0 00
EOC - Hold 90.0° Inc. :: 5.11° Azi.									
9,500 00	90 00	5 11	9,355 00	226 07	20 22	226 97	0 00	0 00	0 00
9,600 00	90 00	5 11	9,355 00	325 67	29 13	326 97	0 00	0 00	0 00
9,700 00	90 00	5 11	9,355 00	425 27	38 04	426 97	0 00	0 00	0 00
9,800 00	90 00	5 11	9,355 00	524 88	46 95	526 97	0 00	0 00	0 00
9,900 00	90 00	5 11	9,355 00	624 48	55 86	626 97	0 00	0 00	0 00
10,000 00	90 00	5 11	9,355 00	724 08	64 77	726 97	0 00	0 00	0 00
10,100 00	90 00	5 11	9,355 00	823 68	73 68	826 97	0 00	0 00	0 00
10,200 00	90 00	5 11	9,355 00	923 29	82 59	926 97	0 00	0 00	0 00
10,300 00	90 00	5 11	9,355 00	1,022 89	91 50	1,026 97	0 00	0 00	0 00
10,400 00	90 00	5 11	9,355 00	1,122 49	100 41	1,126 97	0 00	0 00	0 00
10,500 00	90 00	5 11	9,355 00	1,222 09	109 32	1,226 97	0 00	0 00	0 00
10,600 00	90 00	5 11	9,355 00	1,321 69	118 23	1,326 97	0 00	0 00	0 00
10,700 00	90 00	5 11	9,355 00	1,421 30	127 13	1,426 97	0 00	0 00	0 00
10,800 00	90 00	5 11	9,355 00	1,520 90	136 04	1,526 97	0 00	0 00	0 00
10,900 00	90 00	5 11	9,355 00	1,620 50	144 95	1,626 97	0 00	0 00	0 00
11,000 00	90 00	5 11	9,355 00	1,720 10	153 86	1,726 97	0 00	0 00	0 00
11,061 03	90 00	5 11	9,355 00	1,780 89	159 30	1,788 00	0 00	0 00	0 00

PBHL[B12Fee4H]



Black Viper Energy
Survey Report



Company: Cimarex Energy Co , Inc
Project: Lea County (NAD 83)
Site: Bierstadt '12' Fee #4H
Well: Bierstadt '12' Fee #4H
Wellbore: Lateral #1
Design: Plan #1

Local Co-ordinate Reference: Well Bierstadt '12' Fee #4H
TVD Reference: WELL @ 3776 00ft (Original Well Elev)
MD Reference: WELL @ 3776 00ft (Original Well Elev)
North Reference: Gnd
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[B12Fee4H]	0 00	0 00	9,355 00	1,780 89	159 30	740,731 89	903,959 50	33° 1' 50 356 N	103° 9' 0 553 W
- plan hits target									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,387 82	9,340 00	Wolfcamp		0 00	
	9,608 00	Wolfcamp B		0 00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates				Comment
		+N/-S (ft)	+E/-W (ft)			
9,164 01	9,164 01	0 00	0 00			KOP - Build 30 0° / 100
9,464 01	9,355 00	190 23	17 02			EOC - Hold 90 0° Inc 5 11° Azi

Checked By: _____ Approved By: _____ Date: _____

Bierstadt 12 Fee #4 Lateral Plan #1 Report 10-10-07.txt
 Cimarex Energy Co., Inc.
 Bierstadt '12' Fee #4H - Plan #1

Lea County (NAD 83)
 Bierstadt '12' Fee #4H

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
9170.00	1.796	5.111	9170.00	0.09 N	0.01 E	0.09
0.00						
9180.00	4.796	5.111	9179.98	0.67 N	0.06 E	0.67
30.00						
9190.00	7.796	5.111	9189.92	1.76 N	0.16 E	1.77
30.00						
9200.00	10.796	5.111	9199.79	3.37 N	0.30 E	3.38
30.00						
9210.00	13.796	5.111	9209.56	5.49 N	0.49 E	5.51
30.00						
9220.00	16.796	5.111	9219.20	8.12 N	0.73 E	8.15
30.00						
9230.00	19.796	5.111	9228.69	11.24 N	1.01 E	11.29
30.00						
9240.00	22.796	5.111	9238.01	14.86 N	1.33 E	14.92
30.00						
9250.00	25.796	5.111	9247.12	18.96 N	1.70 E	19.03
30.00						
9260.00	28.796	5.111	9256.01	23.52 N	2.10 E	23.62
30.00						
9270.00	31.796	5.111	9264.64	28.55 N	2.55 E	28.66
30.00						
9280.00	34.796	5.111	9273.00	34.01 N	3.04 E	34.15
30.00						
9290.00	37.796	5.111	9281.06	39.91 N	3.57 E	40.07
30.00						
9300.00	40.796	5.111	9288.80	46.22 N	4.13 E	46.40
30.00						
9310.00	43.796	5.111	9296.19	52.92 N	4.73 E	53.13
30.00						
9320.00	46.796	5.111	9303.23	60.00 N	5.37 E	60.24
30.00						
9330.00	49.796	5.111	9309.88	67.43 N	6.03 E	67.70
30.00						
9340.00	52.796	5.111	9316.13	75.20 N	6.73 E	75.50
30.00						
9350.00	55.796	5.111	9321.97	83.29 N	7.45 E	83.62
30.00						
9360.00	58.796	5.111	9327.37	91.67 N	8.20 E	92.04
30.00						
9370.00	61.796	5.111	9332.32	100.32 N	8.97 E	100.72
30.00						
9380.00	64.796	5.111	9336.82	109.22 N	9.77 E	109.66
30.00						
9390.00	67.796	5.111	9340.84	118.34 N	10.59 E	118.81
30.00						
9400.00	70.796	5.111	9344.37	127.65 N	11.42 E	128.16
30.00						
9410.00	73.796	5.111	9347.41	137.14 N	12.27 E	137.69
30.00						

Bierstadt 12 Fee #4 Lateral Plan #1 Report 10-10-07.txt

9420.00	76.796	5.111	9349.95	146.77 N	13.13 E	147.36
30.00						
9430.00	79.796	5.111	9351.98	156.53 N	14.00 E	157.15
30.00						
9440.00	82.796	5.111	9353.49	166.37 N	14.88 E	167.04
30.00						
9450.00	85.796	5.111	9354.49	176.28 N	15.77 E	176.98
30.00						
9460.00	88.796	5.111	9354.96	186.23 N	16.66 E	186.97
30.00						
9470.00	90.000	5.111	9355.00	196.19 N	17.55 E	196.97
12.04						
9480.00	90.000	5.111	9355.00	206.15 N	18.44 E	206.97
0.00						
9490.00	90.000	5.111	9355.00	216.11 N	19.33 E	216.97
0.00						
9500.00	90.000	5.111	9355.00	226.07 N	20.22 E	226.97
0.00						
9510.00	90.000	5.111	9355.00	236.03 N	21.11 E	236.97
0.00						
9520.00	90.000	5.111	9355.00	245.99 N	22.00 E	246.97
0.00						
9530.00	90.000	5.111	9355.00	255.95 N	22.89 E	256.97
0.00						
9540.00	90.000	5.111	9355.00	265.91 N	23.79 E	266.97
0.00						
9550.00	90.000	5.111	9355.00	275.87 N	24.68 E	276.97
0.00						
9560.00	90.000	5.111	9355.00	285.83 N	25.57 E	286.97
0.00						
9570.00	90.000	5.111	9355.00	295.79 N	26.46 E	296.97
0.00						
9580.00	90.000	5.111	9355.00	305.75 N	27.35 E	306.97
0.00						
9590.00	90.000	5.111	9355.00	315.71 N	28.24 E	316.97
0.00						
9600.00	90.000	5.111	9355.00	325.67 N	29.13 E	326.97
0.00						
9610.00	90.000	5.111	9355.00	335.63 N	30.02 E	336.97
0.00						
9620.00	90.000	5.111	9355.00	345.59 N	30.91 E	346.97
0.00						
9630.00	90.000	5.111	9355.00	355.55 N	31.80 E	356.97
0.00						
9640.00	90.000	5.111	9355.00	365.51 N	32.69 E	366.97
0.00						
9650.00	90.000	5.111	9355.00	375.47 N	33.59 E	376.97
0.00						
9660.00	90.000	5.111	9355.00	385.43 N	34.48 E	386.97
0.00						
9670.00	90.000	5.111	9355.00	395.39 N	35.37 E	396.97
0.00						
9680.00	90.000	5.111	9355.00	405.35 N	36.26 E	406.97
0.00						
9690.00	90.000	5.111	9355.00	415.31 N	37.15 E	416.97
0.00						
9700.00	90.000	5.111	9355.00	425.27 N	38.04 E	426.97
0.00						
9710.00	90.000	5.111	9355.00	435.23 N	38.93 E	436.97
0.00						
9720.00	90.000	5.111	9355.00	445.19 N	39.82 E	446.97
0.00						
9730.00	90.000	5.111	9355.00	455.15 N	40.71 E	456.97

Bierstadt 12 Fee #4 Lateral Plan #1 Report 10-10-07.txt

0.00						
9740.00	90.000	5.111	9355.00	465.11 N	41.60 E	466.97
0.00						
9750.00	90.000	5.111	9355.00	475.08 N	42.50 E	476.97
0.00						
9760.00	90.000	5.111	9355.00	485.04 N	43.39 E	486.97
0.00						
9770.00	90.000	5.111	9355.00	495.00 N	44.28 E	496.97
0.00						
9780.00	90.000	5.111	9355.00	504.96 N	45.17 E	506.97
0.00						
9790.00	90.000	5.111	9355.00	514.92 N	46.06 E	516.97
0.00						
9800.00	90.000	5.111	9355.00	524.88 N	46.95 E	526.97
0.00						
9810.00	90.000	5.111	9355.00	534.84 N	47.84 E	536.97
0.00						
9820.00	90.000	5.111	9355.00	544.80 N	48.73 E	546.97
0.00						
9830.00	90.000	5.111	9355.00	554.76 N	49.62 E	556.97
0.00						
9840.00	90.000	5.111	9355.00	564.72 N	50.51 E	566.97
0.00						
9850.00	90.000	5.111	9355.00	574.68 N	51.40 E	576.97
0.00						
9860.00	90.000	5.111	9355.00	584.64 N	52.30 E	586.97
0.00						
9870.00	90.000	5.111	9355.00	594.60 N	53.19 E	596.97
0.00						
9880.00	90.000	5.111	9355.00	604.56 N	54.08 E	606.97
0.00						
9890.00	90.000	5.111	9355.00	614.52 N	54.97 E	616.97
0.00						
9900.00	90.000	5.111	9355.00	624.48 N	55.86 E	626.97
0.00						
9910.00	90.000	5.111	9355.00	634.44 N	56.75 E	636.97
0.00						
9920.00	90.000	5.111	9355.00	644.40 N	57.64 E	646.97
0.00						
9930.00	90.000	5.111	9355.00	654.36 N	58.53 E	656.97
0.00						
9940.00	90.000	5.111	9355.00	664.32 N	59.42 E	666.97
0.00						
9950.00	90.000	5.111	9355.00	674.28 N	60.31 E	676.97
0.00						
9960.00	90.000	5.111	9355.00	684.24 N	61.21 E	686.97
0.00						
9970.00	90.000	5.111	9355.00	694.20 N	62.10 E	696.97
0.00						
9980.00	90.000	5.111	9355.00	704.16 N	62.99 E	706.97
0.00						
9990.00	90.000	5.111	9355.00	714.12 N	63.88 E	716.97
0.00						
10000.00	90.000	5.111	9355.00	724.08 N	64.77 E	726.97
0.00						
10010.00	90.000	5.111	9355.00	734.04 N	65.66 E	736.97
0.00						
10020.00	90.000	5.111	9355.00	744.00 N	66.55 E	746.97
0.00						
10030.00	90.000	5.111	9355.00	753.96 N	67.44 E	756.97
0.00						
10040.00	90.000	5.111	9355.00	763.92 N	68.33 E	766.97
0.00						

Bierstadt 12 Fee #4 Lateral Plan #1 Report 10-10-07.txt

10050.00	90.000	5.111	9355.00	773.88 N	69.22 E	776.97
0.00						
10060.00	90.000	5.111	9355.00	783.84 N	70.11 E	786.97
0.00						
10070.00	90.000	5.111	9355.00	793.80 N	71.01 E	796.97
0.00						
10080.00	90.000	5.111	9355.00	803.76 N	71.90 E	806.97
0.00						
10090.00	90.000	5.111	9355.00	813.72 N	72.79 E	816.97
0.00						
10100.00	90.000	5.111	9355.00	823.68 N	73.68 E	826.97
0.00						
10110.00	90.000	5.111	9355.00	833.64 N	74.57 E	836.97
0.00						
10120.00	90.000	5.111	9355.00	843.60 N	75.46 E	846.97
0.00						
10130.00	90.000	5.111	9355.00	853.56 N	76.35 E	856.97
0.00						
10140.00	90.000	5.111	9355.00	863.52 N	77.24 E	866.97
0.00						
10150.00	90.000	5.111	9355.00	873.48 N	78.13 E	876.97
0.00						
10160.00	90.000	5.111	9355.00	883.44 N	79.02 E	886.97
0.00						
10170.00	90.000	5.111	9355.00	893.40 N	79.91 E	896.97
0.00						
10180.00	90.000	5.111	9355.00	903.37 N	80.81 E	906.97
0.00						
10190.00	90.000	5.111	9355.00	913.33 N	81.70 E	916.97
0.00						
10200.00	90.000	5.111	9355.00	923.29 N	82.59 E	926.97
0.00						
10210.00	90.000	5.111	9355.00	933.25 N	83.48 E	936.97
0.00						
10220.00	90.000	5.111	9355.00	943.21 N	84.37 E	946.97
0.00						
10230.00	90.000	5.111	9355.00	953.17 N	85.26 E	956.97
0.00						
10240.00	90.000	5.111	9355.00	963.13 N	86.15 E	966.97
0.00						
10250.00	90.000	5.111	9355.00	973.09 N	87.04 E	976.97
0.00						
10260.00	90.000	5.111	9355.00	983.05 N	87.93 E	986.97
0.00						
10270.00	90.000	5.111	9355.00	993.01 N	88.82 E	996.97
0.00						
10280.00	90.000	5.111	9355.00	1002.97 N	89.72 E	1006.97
0.00						
10290.00	90.000	5.111	9355.00	1012.93 N	90.61 E	1016.97
0.00						
10300.00	90.000	5.111	9355.00	1022.89 N	91.50 E	1026.97
0.00						
10310.00	90.000	5.111	9355.00	1032.85 N	92.39 E	1036.97
0.00						
10320.00	90.000	5.111	9355.00	1042.81 N	93.28 E	1046.97
0.00						
10330.00	90.000	5.111	9355.00	1052.77 N	94.17 E	1056.97
0.00						
10340.00	90.000	5.111	9355.00	1062.73 N	95.06 E	1066.97
0.00						
10350.00	90.000	5.111	9355.00	1072.69 N	95.95 E	1076.97
0.00						
10360.00	90.000	5.111	9355.00	1082.65 N	96.84 E	1086.97

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0.00						
10370.00	90.000	5.111	9355.00	1092.61 N	97.73 E	1096.97
0.00						
10380.00	90.000	5.111	9355.00	1102.57 N	98.62 E	1106.97
0.00						
10390.00	90.000	5.111	9355.00	1112.53 N	99.52 E	1116.97
0.00						
10400.00	90.000	5.111	9355.00	1122.49 N	100.41 E	1126.97
0.00						
10410.00	90.000	5.111	9355.00	1132.45 N	101.30 E	1136.97
0.00						
10420.00	90.000	5.111	9355.00	1142.41 N	102.19 E	1146.97
0.00						
10430.00	90.000	5.111	9355.00	1152.37 N	103.08 E	1156.97
0.00						
10440.00	90.000	5.111	9355.00	1162.33 N	103.97 E	1166.97
0.00						
10450.00	90.000	5.111	9355.00	1172.29 N	104.86 E	1176.97
0.00						
10460.00	90.000	5.111	9355.00	1182.25 N	105.75 E	1186.97
0.00						
10470.00	90.000	5.111	9355.00	1192.21 N	106.64 E	1196.97
0.00						
10480.00	90.000	5.111	9355.00	1202.17 N	107.53 E	1206.97
0.00						
10490.00	90.000	5.111	9355.00	1212.13 N	108.42 E	1216.97
0.00						
10500.00	90.000	5.111	9355.00	1222.09 N	109.32 E	1226.97
0.00						
10510.00	90.000	5.111	9355.00	1232.05 N	110.21 E	1236.97
0.00						
10520.00	90.000	5.111	9355.00	1242.01 N	111.10 E	1246.97
0.00						
10530.00	90.000	5.111	9355.00	1251.97 N	111.99 E	1256.97
0.00						
10540.00	90.000	5.111	9355.00	1261.93 N	112.88 E	1266.97
0.00						
10550.00	90.000	5.111	9355.00	1271.89 N	113.77 E	1276.97
0.00						
10560.00	90.000	5.111	9355.00	1281.85 N	114.66 E	1286.97
0.00						
10570.00	90.000	5.111	9355.00	1291.81 N	115.55 E	1296.97
0.00						
10580.00	90.000	5.111	9355.00	1301.77 N	116.44 E	1306.97
0.00						
10590.00	90.000	5.111	9355.00	1311.73 N	117.33 E	1316.97
0.00						
10600.00	90.000	5.111	9355.00	1321.69 N	118.23 E	1326.97
0.00						
10610.00	90.000	5.111	9355.00	1331.66 N	119.12 E	1336.97
0.00						
10620.00	90.000	5.111	9355.00	1341.62 N	120.01 E	1346.97
0.00						
10630.00	90.000	5.111	9355.00	1351.58 N	120.90 E	1356.97
0.00						
10640.00	90.000	5.111	9355.00	1361.54 N	121.79 E	1366.97
0.00						
10650.00	90.000	5.111	9355.00	1371.50 N	122.68 E	1376.97
0.00						
10660.00	90.000	5.111	9355.00	1381.46 N	123.57 E	1386.97
0.00						
10670.00	90.000	5.111	9355.00	1391.42 N	124.46 E	1396.97
0.00						

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10680.00	90.000	5.111	9355.00	1401.38 N	125.35 E	1406.97
0.00						
10690.00	90.000	5.111	9355.00	1411.34 N	126.24 E	1416.97
0.00						
10700.00	90.000	5.111	9355.00	1421.30 N	127.13 E	1426.97
0.00						
10710.00	90.000	5.111	9355.00	1431.26 N	128.03 E	1436.97
0.00						
10720.00	90.000	5.111	9355.00	1441.22 N	128.92 E	1446.97
0.00						
10730.00	90.000	5.111	9355.00	1451.18 N	129.81 E	1456.97
0.00						
10740.00	90.000	5.111	9355.00	1461.14 N	130.70 E	1466.97
0.00						
10750.00	90.000	5.111	9355.00	1471.10 N	131.59 E	1476.97
0.00						
10760.00	90.000	5.111	9355.00	1481.06 N	132.48 E	1486.97
0.00						
10770.00	90.000	5.111	9355.00	1491.02 N	133.37 E	1496.97
0.00						
10780.00	90.000	5.111	9355.00	1500.98 N	134.26 E	1506.97
0.00						
10790.00	90.000	5.111	9355.00	1510.94 N	135.15 E	1516.97
0.00						
10800.00	90.000	5.111	9355.00	1520.90 N	136.04 E	1526.97
0.00						
10810.00	90.000	5.111	9355.00	1530.86 N	136.93 E	1536.97
0.00						
10820.00	90.000	5.111	9355.00	1540.82 N	137.83 E	1546.97
0.00						
10830.00	90.000	5.111	9355.00	1550.78 N	138.72 E	1556.97
0.00						
10840.00	90.000	5.111	9355.00	1560.74 N	139.61 E	1566.97
0.00						
10850.00	90.000	5.111	9355.00	1570.70 N	140.50 E	1576.97
0.00						
10860.00	90.000	5.111	9355.00	1580.66 N	141.39 E	1586.97
0.00						
10870.00	90.000	5.111	9355.00	1590.62 N	142.28 E	1596.97
0.00						
10880.00	90.000	5.111	9355.00	1600.58 N	143.17 E	1606.97
0.00						
10890.00	90.000	5.111	9355.00	1610.54 N	144.06 E	1616.97
0.00						
10900.00	90.000	5.111	9355.00	1620.50 N	144.95 E	1626.97
0.00						
10910.00	90.000	5.111	9355.00	1630.46 N	145.84 E	1636.97
0.00						
10920.00	90.000	5.111	9355.00	1640.42 N	146.74 E	1646.97
0.00						
10930.00	90.000	5.111	9355.00	1650.38 N	147.63 E	1656.97
0.00						
10940.00	90.000	5.111	9355.00	1660.34 N	148.52 E	1666.97
0.00						
10950.00	90.000	5.111	9355.00	1670.30 N	149.41 E	1676.97
0.00						
10960.00	90.000	5.111	9355.00	1680.26 N	150.30 E	1686.97
0.00						
10970.00	90.000	5.111	9355.00	1690.22 N	151.19 E	1696.97
0.00						
10980.00	90.000	5.111	9355.00	1700.18 N	152.08 E	1706.97
0.00						
10990.00	90.000	5.111	9355.00	1710.14 N	152.97 E	1716.97

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0.00	11000.00	90.000	5.111	9355.00	1720.10 N	153.86 E	1726.97
0.00	11010.00	90.000	5.111	9355.00	1730.06 N	154.75 E	1736.97
0.00	11020.00	90.000	5.111	9355.00	1740.02 N	155.64 E	1746.97
0.00	11030.00	90.000	5.111	9355.00	1749.98 N	156.54 E	1756.97
0.00	11040.00	90.000	5.111	9355.00	1759.95 N	157.43 E	1766.97
0.00	11050.00	90.000	5.111	9355.00	1769.91 N	158.32 E	1776.97
0.00	11060.00	90.000	5.111	9355.00	1779.87 N	159.21 E	1786.97
0.00	11061.03	90.000	5.111	9355.00	1780.89 N	159.30 E	1788.00

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 5.111° (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 0.645°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11061.03ft., the Bottom Hole Displacement is 1788.00ft., in the Direction of 5.111° (Grid).