

30-015-35818

Nearburg Producing Co.

Eddy County, NM (Nad 83)

Comet 22 Federal #2

Comet 22 Federal #2

Lateral #1

Survey: MWD Survey #1 (Lateral)

Standard Survey Report

28 October, 2008

Black Viper Energy

Survey Report

Company:	Nearburg Producing Co.	Local Co-ordinate Reference:	Well Comet 22 Federal #2
Project:	Eddy County, NM (Nad 83)	TVD Reference:	WELL @ 3608.00ft (Original Well Elev)
Site:	Comet 22 Federal #2	MD Reference:	WELL @ 3608.00ft (Original Well Elev)
Well:	Comet 22 Federal #2	North Reference:	True
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 2003.14 Server Db

Project	Eddy County, NM (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Comet 22 Federal #2		
Site Position:		Northing:	693,376.64 ft
From:	Lat/Long	Easting:	591,048.18 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 54' 21.600 N
		Longitude:	104° 10' 16.900 W
		Grid Convergence:	0.09 °

Well	Comet 22 Federal #2		
Well Position	+N/-S	0.00 ft	Northing: 693,376.64 ft
	+E/-W	0.00 ft	Easting: 591,048.18 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 54' 21.600 N
		Longitude:	104° 10' 16.900 W
		Ground Level:	3,608.00 ft

Wellbore	Lateral #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	6/19/2008	(°)
			8.26
		Dip Angle	(°)
		60.80	
		Field Strength	(nT)
		49,309	

Design	Lateral #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	6,053.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
		Direction	(°)
		85.31	

Survey Program	Date 10/28/2008		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
741.00	6,053.00	SS Survey #1 (OH)	MWD
6,053.00	10,830.00	MWD Survey #1 (Lateral) (Lateral #1)	MWD

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)
6,053.00	3.00	84.70	6,052.18	27.66	51.64	53.73	0.00	0.00	0.00
6,155.00	11.20	110.10	6,153.33	24.50	63.63	65.42	8.42	8.04	24.90
First MWD Survey									
6,186.00	17.90	106.80	6,183.32	22.08	71.02	72.59	21.77	21.61	-10.65
6,218.00	24.10	103.10	6,213.18	19.18	82.11	83.40	19.80	19.38	-11.56
6,249.00	30.60	97.20	6,240.71	16.75	96.12	97.16	22.69	20.97	-19.03
6,281.00	34.00	93.60	6,267.75	15.17	113.13	113.99	12.20	10.63	-11.25
6,313.00	37.10	91.20	6,293.79	14.40	131.72	132.45	10.62	9.69	-7.50
6,344.00	41.60	90.10	6,317.75	14.19	151.37	152.02	14.69	14.52	-3.55
6,376.00	44.20	89.00	6,341.19	14.37	173.15	173.74	8.46	8.13	-3.44
6,408.00	45.50	88.10	6,363.88	14.94	195.71	196.27	4.52	4.06	-2.81
6,439.00	45.50	87.50	6,385.61	15.79	217.80	218.36	1.38	0.00	-1.94

Black Viper Energy

Survey Report

Company:	Nearburg Producing Co.	Local Co-ordinate Reference:	Well Comet 22 Federal #2
Project:	Eddy County, NM (Nad 83)	TVD Reference:	WELL @ 3608.00ft (Original Well Elev)
Site:	Comet 22 Federal #2	MD Reference:	WELL @ 3608.00ft (Original Well Elev)
Well:	Comet 22 Federal #2	North Reference:	True
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 2003.14 Server Db

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)
6,471.00	46.90	86.00	6,407.75	17.10	240.86	241.45	5.53	4.38	-4.69
6,503.00	48.80	84.60	6,429.23	19.05	264.50	265.17	6.77	5.94	-4.38
6,535.00	51.30	83.80	6,449.78	21.53	288.90	289.70	8.04	7.81	-2.50
6,567.00	54.20	83.30	6,469.14	24.39	314.21	315.15	9.15	9.06	-1.56
6,587.00	57.10	85.50	6,480.43	26.00	330.64	331.66	17.11	14.50	11.00
6,619.00	60.80	86.70	6,496.93	27.86	357.99	359.07	12.00	11.56	3.75
6,650.00	63.40	86.40	6,511.43	29.51	385.33	386.45	8.43	8.39	-0.97
6,682.00	66.20	86.30	6,525.06	31.35	414.22	415.40	8.75	8.75	-0.31
6,713.00	68.50	86.20	6,537.00	33.22	442.77	444.00	7.43	7.42	-0.32
6,745.00	69.00	86.20	6,548.59	35.20	472.53	473.82	1.56	1.56	0.00
6,777.00	70.40	86.70	6,559.70	37.06	502.48	503.83	4.61	4.38	1.56
6,809.00	73.80	84.60	6,569.53	39.37	532.84	534.27	12.32	10.63	-6.56
6,840.00	75.90	83.10	6,577.63	42.58	562.59	564.18	8.23	6.77	-4.84
6,872.00	77.70	84.40	6,584.94	45.97	593.55	595.33	6.88	5.63	4.06
6,904.00	81.70	84.30	6,590.66	49.07	624.88	626.80	12.50	12.50	-0.31
6,936.00	85.40	82.70	6,594.25	52.67	656.47	658.57	12.58	11.56	-5.00
6,967.00	85.90	83.20	6,596.61	56.46	687.14	689.46	2.28	1.61	1.61
6,999.00	88.00	84.20	6,598.31	59.97	718.90	721.40	7.27	6.56	3.13
7,030.00	90.90	83.70	6,598.61	63.23	749.72	752.38	9.49	9.35	-1.61
7,062.00	92.20	83.90	6,597.74	66.69	781.52	784.36	4.11	4.06	0.63
7,094.00	92.80	84.30	6,596.34	69.98	813.32	816.32	2.25	1.88	1.25
7,125.00	91.70	85.50	6,595.13	72.73	844.18	847.30	5.25	-3.55	3.87
7,157.00	90.30	85.80	6,594.57	75.16	876.08	879.29	4.47	-4.38	0.94
7,221.00	90.60	85.50	6,594.07	80.01	939.89	943.29	0.66	0.47	-0.47
7,284.00	90.50	85.50	6,593.46	84.95	1,002.70	1,006.28	0.16	-0.16	0.00
7,347.00	88.80	85.00	6,593.85	90.17	1,065.48	1,069.28	2.81	-2.70	-0.79
7,416.00	88.10	84.90	6,595.71	96.24	1,134.18	1,138.25	1.02	-1.01	-0.14
7,506.00	87.70	84.80	6,599.01	104.31	1,223.76	1,228.19	0.46	-0.44	-0.11
7,601.00	88.00	84.60	6,602.57	113.08	1,318.29	1,323.12	0.38	0.32	-0.21
7,700.00	88.00	85.30	6,606.03	121.79	1,416.84	1,422.06	0.71	0.00	0.71
7,795.00	88.10	85.30	6,609.26	129.57	1,511.47	1,517.00	0.11	0.11	0.00
7,891.00	86.50	86.10	6,613.78	136.76	1,607.09	1,612.89	1.86	-1.67	0.83
7,922.00	86.50	86.60	6,615.68	138.73	1,637.97	1,643.82	1.61	0.00	1.61
8,017.00	86.60	87.10	6,621.39	143.94	1,732.65	1,738.62	0.54	0.11	0.53
8,113.00	86.40	87.50	6,627.25	148.46	1,828.36	1,834.38	0.47	-0.21	0.42
8,208.00	87.00	86.20	6,632.72	153.67	1,923.06	1,929.19	1.51	0.63	-1.37
8,303.00	87.20	86.00	6,637.53	160.12	2,017.72	2,024.06	0.30	0.21	-0.21
8,398.00	88.10	84.60	6,641.42	167.90	2,112.32	2,118.97	1.75	0.95	-1.47
8,493.00	88.20	84.50	6,644.49	176.92	2,206.84	2,213.91	0.15	0.11	-0.11
8,588.00	87.50	83.60	6,648.06	186.76	2,301.26	2,308.82	1.20	-0.74	-0.95
8,683.00	88.60	82.90	6,651.29	197.92	2,395.54	2,403.70	1.37	1.16	-0.74
8,778.00	87.90	82.50	6,654.19	209.98	2,489.73	2,498.56	0.85	-0.74	-0.42
8,873.00	89.90	82.10	6,656.01	222.71	2,583.85	2,593.41	2.15	2.11	-0.42
8,969.00	90.40	82.60	6,655.76	235.49	2,678.99	2,689.28	0.74	0.52	0.52
9,064.00	89.90	81.70	6,655.51	248.46	2,773.10	2,784.13	1.08	-0.53	-0.95
9,095.00	89.50	81.70	6,655.68	252.94	2,803.78	2,815.07	1.29	-1.29	0.00
9,161.00	89.70	82.50	6,656.14	262.01	2,869.15	2,880.96	1.25	0.30	1.21
9,256.00	90.50	84.00	6,655.97	273.17	2,963.49	2,975.90	1.79	0.84	1.58
9,351.00	90.80	83.50	6,654.89	283.52	3,057.92	3,070.86	0.61	0.32	-0.53
9,446.00	90.90	83.10	6,653.48	294.60	3,152.26	3,165.79	0.43	0.11	-0.42
9,509.00	90.80	82.40	6,652.55	302.55	3,214.74	3,228.72	1.12	-0.16	-1.11
9,604.00	90.50	81.80	6,651.47	315.60	3,308.84	3,323.56	0.71	-0.32	-0.63
9,699.00	90.90	81.50	6,650.31	329.40	3,402.82	3,418.36	0.53	0.42	-0.32
9,762.00	91.00	81.40	6,649.27	338.76	3,465.11	3,481.21	0.22	0.16	-0.16

Black Viper Energy

Survey Report

Company: Nearburg Producing Co.
 Project: Eddy County, NM (Nad 83)
 Site: Comet 22 Federal #2
 Well: Comet 22 Federal #2
 Wellbore: Lateral #1
 Design: Lateral #1

Local Co-ordinate Reference: Well Comet 22 Federal #2
 TVD Reference: WELL @ 3608.00ft (Original Well Elev)
 MD Reference: WELL @ 3608.00ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.14 Server Db

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)
9,825.00	90.50	80.60	6,648.44	348.62	3,527.33	3,544.03	1.50	-0.79	-1.27
9,920.00	89.90	80.10	6,648.11	364.54	3,620.99	3,638.67	0.82	-0.63	-0.53
10,015.00	89.90	79.70	6,648.28	381.20	3,714.51	3,733.25	0.42	0.00	-0.42
10,111.00	90.00	79.20	6,648.36	398.78	3,808.89	3,828.74	0.53	0.10	-0.52
10,206.00	90.20	78.90	6,648.19	416.82	3,902.16	3,923.18	0.38	0.21	-0.32
10,301.00	89.80	78.50	6,648.19	435.44	3,995.32	4,017.55	0.60	-0.42	-0.42
10,396.00	89.80	77.90	6,648.53	454.87	4,088.31	4,111.81	0.63	0.00	-0.63
10,491.00	89.60	77.60	6,649.02	475.02	4,181.15	4,205.99	0.38	-0.21	-0.32
10,586.00	89.50	77.20	6,649.77	495.75	4,273.85	4,300.08	0.43	-0.11	-0.42
10,681.00	89.50	76.90	6,650.60	517.03	4,366.43	4,394.09	0.32	0.00	-0.32
10,776.00	89.40	76.90	6,651.51	538.57	4,458.96	4,488.07	0.11	-0.11	0.00
Last MWD Survey									
10,830.00	89.40	76.90	6,652.08	550.80	4,511.55	4,541.48	0.00	0.00	0.00
Proj. to Bit									

Black Viper Energy

Survey Report

Company: Nearburg Producing Co.
Project: Eddy County, NM (Nad 83)
Site: Comet 22 Federal #2
Well: Comet 22 Federal #2
Wellbore: Lateral #1
Design: Lateral #1

Local Co-ordinate Reference: Well Comet 22 Federal #2
TVD Reference: WELL @ 3608.00ft (Original Well Elev)
MD Reference: WELL @ 3608.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.14 Server Db

Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
LL[C22F#1H]	0.00	0.00	0.00	0.00	0.00	693,376.64	591,048.18	32° 54' 21.600 N	104° 10' 16.900 W
- survey misses by 6052.47ft at 6053.00ft MD (6052.18 TVD, 27.66 N, 51.64 E)									
- Rectangle (sides W1,320.00 H5,250.00 D0.00)									
PBHL#1[C22F#1]	0.00	0.00	6,800.00	-1,653.91	4,581.47	691,729.77	595,632.19	32° 54' 5.231 N	104° 9' 23.162 W
- survey misses by 2170.62ft at 10431.29ft MD (6648.67 TVD, 462.30 N, 4122.81 E)									
- Point									
T#2c[C22F#1]	0.00	0.00	6,625.00	108.81	1,496.05	693,487.75	592,544.06	32° 54' 22.676 N	104° 9' 59.351 W
- survey misses by 25.36ft at 7778.48ft MD (6608.71 TVD, 128.22 N, 1495.01 E)									
- Point									
T#1c[C22F#1]	0.00	0.00	6,630.00	145.08	1,994.73	693,524.79	593,042.69	32° 54' 23.035 N	104° 9' 53.502 W
- survey misses by 14.83ft at 8278.69ft MD (6636.33 TVD, 158.44 N, 1993.50 E)									
- Point									
PBHL#1c[C22F#1]	0.00	0.00	6,655.00	333.83	4,586.44	693,717.52	595,634.11	32° 54' 24.900 N	104° 9' 23.100 W
- survey misses by 229.55ft at 10830.00ft MD (6652.08 TVD, 550.80 N, 4511.55 E)									
- Point									
HL[C22F#1H]	0.00	0.00	0.00	0.00	0.00	693,376.64	591,048.18	32° 54' 21.600 N	104° 10' 16.900 W
- survey misses by 6052.47ft at 6053.00ft MD (6052.18 TVD, 27.66 N, 51.64 E)									
- Rectangle (sides W660.00 H4,590.00 D0.00)									
PBHL#1b[C22F#1]	0.00	0.00	6,570.00	333.83	4,586.44	693,717.51	595,634.11	32° 54' 24.900 N	104° 9' 23.100 W
- survey misses by 243.77ft at 10830.00ft MD (6652.08 TVD, 550.80 N, 4511.55 E)									
- Point									
PP#2c[C22F#1]	0.00	0.00	6,600.00	34.60	475.74	693,411.97	591,523.87	32° 54' 21.942 N	104° 10' 11.319 W
- survey misses by 47.03ft at 6765.81ft MD (6555.90 TVD, 36.43 N, 491.98 E)									
- Point									

Survey Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
6,155.00	6,153.33	24.50	63.63	First MWD Survey
10,776.00	6,651.51	538.57	4,458.96	Last MWD Survey
10,830.00	6,652.08	550.80	4,511.55	Proj. to Bit

Checked By: _____ Approved By: _____ Date: _____

Nearburg Producing Co.

Comet 22 Federal #2 - MWD Survey #1 (Lateral)

Eddy County, NM (Nad 83)

Comet 22 Federal #2

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
6053.00	3.000	84.700	6052.18	27.66 N	51.64 E	53.73	0.00
6155.00	11.200	110.100	6153.33	24.50 N	63.63 E	65.42	8.42
6186.00	17.900	106.800	6183.32	22.08 N	71.02 E	72.59	21.77
6218.00	24.100	103.100	6213.18	19.18 N	82.11 E	83.40	19.80
6249.00	30.600	97.200	6240.71	16.75 N	96.12 E	97.16	22.69
6281.00	34.000	93.600	6267.75	15.17 N	113.13 E	113.99	12.20
6313.00	37.100	91.200	6293.79	14.40 N	131.72 E	132.45	10.62
6344.00	41.600	90.100	6317.75	14.19 N	151.37 E	152.02	14.69
6376.00	44.200	89.000	6341.19	14.37 N	173.15 E	173.74	8.46
6408.00	45.500	88.100	6363.88	14.94 N	195.71 E	196.27	4.52
6439.00	45.500	87.500	6385.61	15.79 N	217.80 E	218.36	1.38
6471.00	46.900	86.000	6407.75	17.10 N	240.86 E	241.45	5.53
6503.00	48.800	84.600	6429.23	19.05 N	264.50 E	265.17	6.77
6535.00	51.300	83.800	6449.78	21.53 N	288.90 E	289.70	8.04
6567.00	54.200	83.300	6469.14	24.39 N	314.21 E	315.15	9.15
6587.00	57.100	85.500	6480.43	26.00 N	330.64 E	331.66	17.11
6619.00	60.800	86.700	6496.93	27.86 N	357.99 E	359.07	12.00
6650.00	63.400	86.400	6511.43	29.51 N	385.33 E	386.45	8.43
6682.00	66.200	86.300	6525.06	31.35 N	414.22 E	415.40	8.75
6713.00	68.500	86.200	6537.00	33.22 N	442.77 E	444.00	7.43
6745.00	69.000	86.200	6548.59	35.20 N	472.53 E	473.82	1.56
6777.00	70.400	86.700	6559.70	37.06 N	502.48 E	503.83	4.61
6809.00	73.800	84.600	6569.53	39.37 N	532.84 E	534.27	12.32
6840.00	75.900	83.100	6577.63	42.58 N	562.59 E	564.18	8.23
6872.00	77.700	84.400	6584.94	45.97 N	593.55 E	595.33	6.88
6904.00	81.700	84.300	6590.66	49.07 N	624.88 E	626.80	12.50
6936.00	85.400	82.700	6594.25	52.67 N	656.47 E	658.57	12.58
6967.00	85.900	83.200	6596.61	56.46 N	687.14 E	689.46	2.28
6999.00	88.000	84.200	6598.31	59.97 N	718.90 E	721.40	7.27
7030.00	90.900	83.700	6598.61	63.23 N	749.72 E	752.38	9.49
7062.00	92.200	83.900	6597.74	66.69 N	781.52 E	784.36	4.11
7094.00	92.800	84.300	6596.34	69.98 N	813.32 E	816.32	2.25
7125.00	91.700	85.500	6595.13	72.73 N	844.18 E	847.30	5.25
7157.00	90.300	85.800	6594.57	75.16 N	876.08 E	879.29	4.47
7221.00	90.600	85.500	6594.07	80.01 N	939.89 E	943.29	0.66
7284.00	90.500	85.500	6593.46	84.95 N	1002.70 E	1006.28	0.16
7347.00	88.800	85.000	6593.85	90.17 N	1065.48 E	1069.28	2.81
7416.00	88.100	84.900	6595.71	96.24 N	1134.18 E	1138.25	1.02
7506.00	87.700	84.800	6599.01	104.31 N	1223.76 E	1228.19	0.46
7601.00	88.000	84.600	6602.57	113.08 N	1318.29 E	1323.12	0.38
7700.00	88.000	85.300	6606.03	121.79 N	1416.84 E	1422.06	0.71
7795.00	88.100	85.300	6609.26	129.57 N	1511.47 E	1517.00	0.11
7891.00	86.500	86.100	6613.78	136.76 N	1607.09 E	1612.89	1.86
7922.00	86.500	86.600	6615.68	138.73 N	1637.97 E	1643.82	1.61
8017.00	86.600	87.100	6621.39	143.94 N	1732.65 E	1738.62	0.54
8113.00	86.400	87.500	6627.25	148.46 N	1828.36 E	1834.38	0.47
8208.00	87.000	86.200	6632.72	153.67 N	1923.06 E	1929.19	1.51
8303.00	87.200	86.000	6637.53	160.12 N	2017.72 E	2024.06	0.30
8398.00	88.100	84.600	6641.42	167.90 N	2112.32 E	2118.97	1.75
8493.00	88.200	84.500	6644.49	176.92 N	2206.84 E	2213.91	0.15
8588.00	87.500	83.600	6648.06	186.76 N	2301.26 E	2308.82	1.20
8683.00	88.600	82.900	6651.29	197.92 N	2395.54 E	2403.70	1.37
8778.00	87.900	82.500	6654.19	209.98 N	2489.73 E	2498.56	0.85
8873.00	89.900	82.100	6656.01	222.71 N	2583.85 E	2593.41	2.15
8969.00	90.400	82.600	6655.76	235.49 N	2678.99 E	2689.28	0.74
9064.00	89.900	81.700	6655.51	248.46 N	2773.10 E	2784.13	1.08
9095.00	89.500	81.700	6655.68	252.94 N	2803.78 E	2815.07	1.29
9161.00	89.700	82.500	6656.14	262.01 N	2869.15 E	2880.96	1.25
9256.00	90.500	84.000	6655.97	273.17 N	2963.49 E	2975.90	1.79
9351.00	90.800	83.500	6654.89	283.52 N	3057.92 E	3070.86	0.61
9446.00	90.900	83.100	6653.48	294.60 N	3152.26 E	3165.79	0.43
9509.00	90.800	82.400	6652.55	302.55 N	3214.74 E	3228.72	1.12
9604.00	90.500	81.800	6651.47	315.60 N	3308.84 E	3323.56	0.71
9699.00	90.900	81.500	6650.31	329.40 N	3402.82 E	3418.36	0.53

9762.00	91.000	81.400	6649.27	338.76 N	3465.11 E	3481.21	0.22
9825.00	90.500	80.600	6648.44	348.62 N	3527.33 E	3544.03	1.50
9920.00	89.900	80.100	6648.11	364.54 N	3620.99 E	3638.67	0.82
10015.00	89.900	79.700	6648.28	381.20 N	3714.51 E	3733.25	0.42
10111.00	90.000	79.200	6648.36	398.78 N	3808.89 E	3828.74	0.53
10206.00	90.200	78.900	6648.19	416.82 N	3902.16 E	3923.18	0.38
10301.00	89.800	78.500	6648.19	435.44 N	3995.32 E	4017.55	0.60
10396.00	89.800	77.900	6648.53	454.87 N	4088.31 E	4111.81	0.63
10491.00	89.600	77.600	6649.02	475.02 N	4181.15 E	4205.99	0.38
10586.00	89.500	77.200	6649.77	495.75 N	4273.85 E	4300.08	0.43
10681.00	89.500	76.900	6650.60	517.03 N	4366.43 E	4394.09	0.32
10776.00	89.400	76.900	6651.51	538.57 N	4458.96 E	4488.07	0.11
10830.00	89.400	76.900	6652.08	550.80 N	4511.55 E	4541.48	0.00

All data are in feet unless otherwise stated. Directions and coordinates are relative to True 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 85.309° (True).

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 0.088°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 10830.00ft., the Bottom Hole Displacement is 4545.05ft., in the Direction of 85.309° (True).