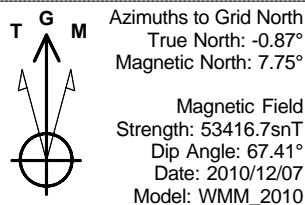




Company: Carrizo Oil & Gas
Site: State
Well: 36-24-9-61
Project: Weld County, Colorado
Rig Name: Extreme #15



Planning: 936.442.2510 Fax: 936.442.2515
Operations: 936.442.2500 Fax: 936.442.2599

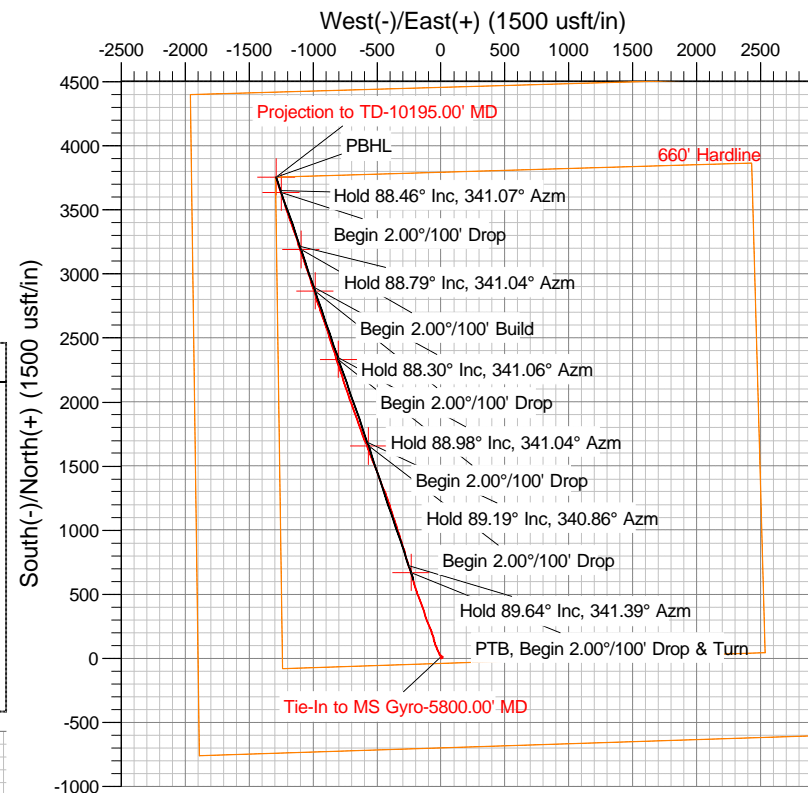
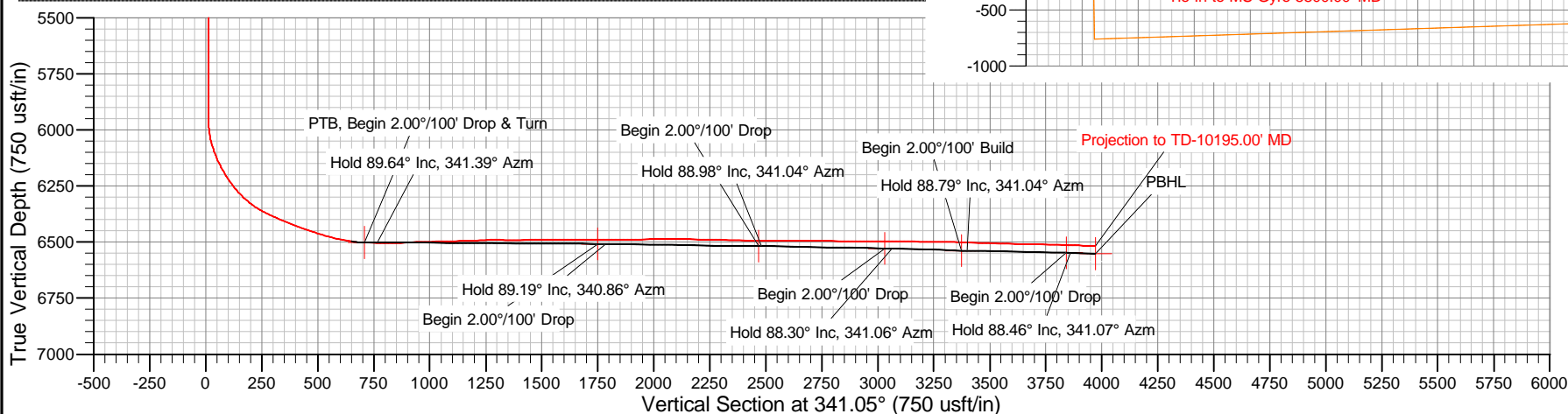


US State Plane 1983
Colorado Northern Zone

Created By: Marla Tinney
Date: 11:15, December 20 2010
Plan: Design #7

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation
6871.00	81.20	343.30	6497.18	612.58	-217.08	649.87	0.00	Last Survey
6930.00	90.00	342.50	6501.70	668.75	-234.36	708.61	58.77	PTB, Begin 2.00°/100' Drop & Turn
6988.12	89.64	341.39	6501.89	724.01	-252.37	766.72	116.89	Hold 89.64° Inc, 341.39° Azm
7971.39	89.64	341.39	6508.00	1655.86	-566.09	1749.95	1100.13	Begin 2.00°/100' Drop
8006.41	89.19	340.86	6508.36	1689.00	-577.42	1784.98	1135.16	Hold 89.19° Inc, 340.86° Azm
8688.44	89.19	340.86	6518.00	2333.26	-801.02	2466.93	1817.12	Begin 2.00°/100' Drop
8702.34	88.98	341.04	6518.22	2346.40	-805.56	2480.83	1831.02	Hold 88.98° Inc, 341.04° Azm
9251.51	88.98	341.04	6528.00	2865.70	-983.94	3029.91	2380.10	Begin 2.00°/100' Drop
9285.50	88.30	341.06	6528.81	2897.83	-994.97	3063.89	2414.08	Hold 88.30° Inc, 341.06° Azm
9595.44	88.30	341.06	6538.00	3190.86	-1095.55	3373.69	2723.88	Begin 2.00°/100' Build
9619.97	88.79	341.04	6538.62	3214.05	-1103.51	3398.22	2748.41	Hold 88.79° Inc, 341.04° Azm
10064.30	88.79	341.04	6548.00	3634.19	-1247.82	3842.45	3192.63	Begin 2.00°/100' Drop
10081.06	88.46	341.07	6548.40	3650.04	-1253.26	3859.20	3209.39	Hold 88.46° Inc, 341.07° Azm
10194.23	88.46	341.07	6551.45	3757.05	-1289.95	3972.33	3322.52	PBHL



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Carrizo Oil & Gas

Weld County, Colorado

State

36-24-9-61

Wellbore #1

Design: Surveys

Standard Survey Report

20 December, 2010

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 36-24-9-61
Project:	Weld County, Colorado	TVD Reference:	WELL @ 5029.40usft (Extreme #15)
Site:	State	MD Reference:	WELL @ 5029.40usft (Extreme #15)
Well:	36-24-9-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM R5000 Server

Project	Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Well	36-24-9-61				
Well Position	+N/-S	0.00 usft	Northing:	1,500,770.80 usft	Latitude: 40° 42' 0.921 N
	+E/-W	0.00 usft	Easting:	3,372,647.04 usft	Longitude: 104° 9' 21.583 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 5,013.90 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	2010/12/07	8.62	67.41	53,417

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	341.05	

Survey Program	Date	2010/12/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	5,800.00	MS Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
5,891.00	10,195.00	MS MWD (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.55	213.55	100.00	-0.40	-0.27	-0.29	0.55	0.55	0.00	
200.00	0.46	217.71	199.99	-1.12	-0.78	-0.80	0.10	-0.09	4.16	
300.00	0.41	196.35	299.99	-1.78	-1.12	-1.32	0.17	-0.05	-21.36	
400.00	0.21	188.53	399.99	-2.30	-1.25	-1.77	0.20	-0.20	-7.82	
500.00	0.19	175.63	499.99	-2.65	-1.26	-2.10	0.05	-0.02	-12.90	
600.00	0.07	149.50	599.99	-2.87	-1.22	-2.32	0.13	-0.12	-26.13	
700.00	0.12	151.97	699.99	-3.01	-1.14	-2.48	0.05	0.05	2.47	
800.00	0.11	148.49	799.99	-3.19	-1.04	-2.68	0.01	-0.01	-3.48	
900.00	0.52	38.31	899.99	-2.91	-0.71	-2.52	0.57	0.41	-110.18	
1,000.00	0.76	30.55	999.98	-1.99	-0.09	-1.85	0.25	0.24	-7.76	
1,100.00	0.69	42.27	1,099.97	-0.97	0.65	-1.13	0.16	-0.07	11.72	
1,200.00	0.80	14.89	1,199.97	0.15	1.23	-0.26	0.37	0.11	-27.38	
1,300.00	0.78	8.36	1,299.96	1.50	1.51	0.93	0.09	-0.02	-6.53	
1,400.00	0.65	27.79	1,399.95	2.67	1.88	1.92	0.27	-0.13	19.43	

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 36-24-9-61
Project:	Weld County, Colorado	TVD Reference:	WELL @ 5029.40usft (Extreme #15)
Site:	State	MD Reference:	WELL @ 5029.40usft (Extreme #15)
Well:	36-24-9-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM R5000 Server

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,500.00	0.51	59.14	1,499.94	3.40	2.52	2.40	0.34	-0.14	31.35
1,600.00	0.41	81.44	1,599.94	3.69	3.26	2.43	0.20	-0.10	22.30
1,700.00	0.40	84.48	1,699.94	3.77	3.96	2.28	0.02	-0.01	3.04
1,800.00	0.35	93.83	1,799.94	3.79	4.61	2.08	0.08	-0.05	9.35
1,900.00	0.29	106.45	1,899.93	3.69	5.16	1.82	0.09	-0.06	12.62
2,000.00	0.24	106.51	1,999.93	3.56	5.60	1.55	0.05	-0.05	0.06
2,100.00	0.28	123.22	2,099.93	3.37	6.01	1.24	0.09	0.04	16.71
2,200.00	0.45	96.92	2,199.93	3.19	6.60	0.87	0.23	0.17	-26.30
2,300.00	0.65	24.98	2,299.93	3.66	7.23	1.11	0.67	0.20	-71.94
2,400.00	0.64	37.85	2,399.92	4.61	7.81	1.82	0.14	-0.01	12.87
2,500.00	0.47	69.06	2,499.92	5.20	8.54	2.14	0.34	-0.17	31.21
2,600.00	0.38	93.13	2,599.91	5.33	9.25	2.03	0.20	-0.09	24.07
2,700.00	0.52	94.58	2,699.91	5.27	10.04	1.73	0.14	0.14	1.45
2,800.00	0.53	96.22	2,799.91	5.19	10.95	1.35	0.02	0.01	1.64
2,900.00	0.46	101.26	2,899.90	5.06	11.80	0.95	0.08	-0.07	5.04
3,000.00	0.55	58.44	2,999.90	5.23	12.61	0.85	0.38	0.09	-42.82
3,100.00	0.54	9.23	3,099.89	5.95	13.09	1.37	0.45	-0.01	-49.21
3,200.00	0.55	23.95	3,199.89	6.85	13.36	2.14	0.14	0.01	14.72
3,300.00	0.41	53.51	3,299.89	7.50	13.84	2.60	0.28	-0.14	29.56
3,400.00	0.09	62.59	3,399.89	7.75	14.20	2.72	0.32	-0.32	9.08
3,500.00	0.52	266.64	3,499.88	7.76	13.82	2.85	0.60	0.43	-155.95
3,600.00	0.63	283.47	3,599.88	7.86	12.83	3.27	0.20	0.11	16.83
3,700.00	0.46	317.43	3,699.87	8.29	12.02	3.93	0.36	-0.17	33.96
3,800.00	0.51	345.49	3,799.87	9.01	11.64	4.74	0.24	0.05	28.06
3,900.00	0.74	282.65	3,899.87	9.58	10.90	5.53	0.68	0.23	-62.84
4,000.00	0.42	332.33	3,999.86	10.05	10.10	6.23	0.57	-0.32	49.68
4,100.00	0.34	11.27	4,099.86	10.67	9.99	6.84	0.26	-0.08	38.94
4,200.00	0.16	48.11	4,199.86	11.05	10.15	7.16	0.23	-0.18	36.84
4,300.00	0.51	328.93	4,299.86	11.52	10.02	7.65	0.51	0.35	-79.18
4,400.00	0.25	28.04	4,399.86	12.10	9.90	8.23	0.44	-0.26	59.11
4,500.00	0.25	9.06	4,499.85	12.51	10.03	8.57	0.08	0.00	-18.98
4,600.00	0.25	348.06	4,599.85	12.94	10.02	8.98	0.09	0.00	-21.00
4,700.00	0.25	309.06	4,699.85	13.29	9.81	9.38	0.17	0.00	-39.00
4,800.00	0.25	299.06	4,799.85	13.53	9.45	9.73	0.04	0.00	-10.00
4,900.00	0.75	280.06	4,899.85	13.75	8.61	10.21	0.52	0.50	-19.00
5,000.00	0.75	284.07	4,999.84	14.02	7.33	10.88	0.05	0.00	4.01
5,100.00	0.75	266.07	5,099.83	14.14	6.05	11.41	0.23	0.00	-18.00
5,200.00	0.75	270.07	5,199.82	14.09	4.74	11.79	0.05	0.00	4.00
5,300.00	0.50	278.13	5,299.82	14.16	3.65	12.20	0.26	-0.25	8.06
5,400.00	0.50	266.18	5,399.81	14.19	2.78	12.52	0.10	0.00	-11.95
5,500.00	0.50	264.23	5,499.81	14.12	1.91	12.73	0.02	0.00	-1.95
5,600.00	0.25	232.28	5,599.81	13.94	1.31	12.76	0.32	-0.25	-31.95
5,700.00	0.25	208.34	5,699.81	13.61	1.03	12.54	0.10	0.00	-23.94

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 36-24-9-61
Project:	Weld County, Colorado	TVD Reference:	WELL @ 5029.40usft (Extreme #15)
Site:	State	MD Reference:	WELL @ 5029.40usft (Extreme #15)
Well:	36-24-9-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM R5000 Server

Survey										
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	5,800.00	0.25	219.39	5,799.80	13.25	0.79	12.28	0.05	0.00	11.05
	Tie-In to MS Gyro-5800.00' MD									
	5,891.00	0.40	191.60	5,890.80	12.79	0.60	11.90	0.23	0.16	-30.54
	5,935.00	0.10	224.80	5,934.80	12.61	0.54	11.75	0.73	-0.68	75.45
	5,980.00	2.60	327.10	5,979.79	13.44	-0.04	12.72	5.83	5.56	227.33
	6,023.00	9.70	328.20	6,022.51	17.34	-2.48	17.21	16.51	16.51	2.56
	6,068.00	15.90	331.70	6,066.37	26.00	-7.41	27.00	13.88	13.78	7.78
	6,113.00	21.40	333.50	6,108.99	38.78	-14.00	41.23	12.29	12.22	4.00
	6,158.00	26.80	333.50	6,150.06	55.22	-22.19	59.44	12.00	12.00	0.00
	6,204.00	30.80	335.80	6,190.36	75.25	-31.65	81.45	9.02	8.70	5.00
	6,247.00	35.30	338.90	6,226.40	96.90	-40.64	104.85	11.18	10.47	7.21
	6,291.00	39.20	343.30	6,261.42	122.09	-49.22	131.46	10.73	8.86	10.00
	6,336.00	45.00	345.10	6,294.79	151.11	-57.40	161.57	13.16	12.89	4.00
	6,379.00	51.20	341.90	6,323.50	181.77	-66.53	193.52	15.44	14.42	-7.44
	6,425.00	58.70	339.30	6,349.90	217.24	-79.06	231.14	16.95	16.30	-5.65
	6,469.00	62.80	339.10	6,371.40	253.12	-92.70	269.51	9.33	9.32	-0.45
	6,514.00	67.10	339.60	6,390.45	291.26	-107.07	310.25	9.61	9.56	1.11
	6,558.00	68.80	340.30	6,406.97	329.57	-121.05	351.02	4.14	3.86	1.59
	6,603.00	69.20	340.00	6,423.09	369.09	-135.31	393.02	1.09	0.89	-0.67
	6,646.00	69.90	340.00	6,438.12	406.95	-149.09	433.31	1.63	1.63	0.00
	6,692.00	70.30	339.60	6,453.77	447.54	-164.03	476.55	1.19	0.87	-0.87
	6,738.00	73.80	340.50	6,467.95	488.67	-178.95	520.30	7.83	7.61	1.96
	6,783.00	76.20	343.00	6,479.60	529.94	-192.56	563.75	7.57	5.33	5.56
	6,828.00	78.30	343.80	6,489.53	572.00	-205.09	607.60	4.98	4.67	1.78
	6,871.00	81.20	343.30	6,497.18	612.58	-217.08	649.87	6.84	6.74	-1.16
	6,947.00	89.80	341.70	6,503.13	684.77	-239.84	725.54	11.51	11.32	-2.11
	6,984.00	88.90	342.10	6,503.55	719.93	-251.34	762.53	2.66	-2.43	1.08
	7,006.00	88.60	341.70	6,504.03	740.84	-258.17	784.53	2.27	-1.36	-1.82
	7,051.00	90.30	343.10	6,504.47	783.73	-271.78	829.51	4.89	3.78	3.11
	7,072.00	91.50	343.50	6,504.14	803.84	-277.81	850.49	6.02	5.71	1.90
	7,095.00	92.50	343.50	6,503.33	825.88	-284.34	873.45	4.35	4.35	0.00
	7,116.00	92.70	343.00	6,502.38	845.97	-290.38	894.42	2.56	0.95	-2.38
	7,138.00	92.90	342.80	6,501.31	866.97	-296.84	916.38	1.28	0.91	-0.91
	7,160.00	92.80	342.60	6,500.21	887.95	-303.38	938.34	1.02	-0.45	-0.91
	7,182.00	92.10	342.40	6,499.27	908.91	-309.99	960.32	3.31	-3.18	-0.91
	7,205.00	91.80	342.30	6,498.49	930.81	-316.96	983.30	1.37	-1.30	-0.43
	7,227.00	90.60	342.40	6,498.03	951.77	-323.63	1,005.28	5.47	-5.45	0.45
	7,249.00	90.70	342.10	6,497.78	972.72	-330.33	1,027.28	1.44	0.45	-1.36
	7,270.00	90.70	342.40	6,497.52	992.72	-336.73	1,048.27	1.43	0.00	1.43
	7,292.00	90.90	342.10	6,497.22	1,013.67	-343.44	1,070.27	1.64	0.91	-1.36
	7,314.00	91.20	342.80	6,496.81	1,034.65	-350.07	1,092.25	3.46	1.36	3.18
	7,336.00	91.20	342.30	6,496.35	1,055.63	-356.67	1,114.24	2.27	0.00	-2.27
	7,359.00	92.00	341.60	6,495.71	1,077.49	-363.79	1,137.23	4.62	3.48	-3.04



Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 36-24-9-61
Project:	Weld County, Colorado	TVD Reference:	WELL @ 5029.40usft (Extreme #15)
Site:	State	MD Reference:	WELL @ 5029.40usft (Extreme #15)
Well:	36-24-9-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM R5000 Server

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,381.00	92.20	341.90	6,494.90	1,098.37	-370.68	1,159.21	1.64	0.91	1.36	
7,403.00	92.40	341.70	6,494.02	1,119.25	-377.54	1,181.19	1.29	0.91	-0.91	
7,425.00	92.70	341.40	6,493.04	1,140.10	-384.50	1,203.17	1.93	1.36	-1.36	
7,446.00	92.90	342.10	6,492.02	1,160.02	-391.07	1,224.14	3.46	0.95	3.33	
7,469.00	91.80	341.40	6,491.07	1,181.84	-398.26	1,247.12	5.67	-4.78	-3.04	
7,491.00	91.50	341.40	6,490.44	1,202.69	-405.28	1,269.11	1.36	-1.36	0.00	
7,513.00	90.00	340.20	6,490.15	1,223.46	-412.51	1,291.11	8.73	-6.82	-5.45	
7,536.00	89.40	339.30	6,490.27	1,245.04	-420.47	1,314.10	4.70	-2.61	-3.91	
7,558.00	89.30	339.60	6,490.52	1,265.64	-428.20	1,336.09	1.44	-0.45	1.36	
7,579.00	89.30	339.30	6,490.78	1,285.30	-435.57	1,357.08	1.43	0.00	-1.43	
7,601.00	89.80	338.90	6,490.95	1,305.85	-443.41	1,379.07	2.91	2.27	-1.82	
7,624.00	90.50	338.70	6,490.89	1,327.29	-451.73	1,402.05	3.17	3.04	-0.87	
7,669.00	90.90	338.70	6,490.34	1,369.22	-468.08	1,447.01	0.89	0.89	0.00	
7,713.00	91.60	338.90	6,489.38	1,410.23	-483.98	1,490.97	1.65	1.59	0.45	
7,758.00	90.60	339.80	6,488.52	1,452.33	-499.85	1,535.94	2.99	-2.22	2.00	
7,801.00	89.50	339.60	6,488.48	1,492.66	-514.77	1,578.93	2.60	-2.56	-0.47	
7,847.00	89.40	338.90	6,488.92	1,535.67	-531.06	1,624.90	1.54	-0.22	-1.52	
7,892.00	89.30	338.00	6,489.43	1,577.52	-547.59	1,669.85	2.01	-0.22	-2.00	
7,937.00	90.30	338.00	6,489.59	1,619.24	-564.45	1,714.79	2.22	2.22	0.00	
7,982.00	91.10	339.10	6,489.04	1,661.12	-580.90	1,759.74	3.02	1.78	2.44	
8,027.00	89.90	339.30	6,488.65	1,703.19	-596.88	1,804.71	2.70	-2.67	0.44	
8,070.00	89.70	338.90	6,488.80	1,743.36	-612.22	1,847.69	1.04	-0.47	-0.93	
8,115.00	90.30	338.90	6,488.80	1,785.34	-628.42	1,892.66	1.33	1.33	0.00	
8,161.00	90.70	339.60	6,488.39	1,828.36	-644.72	1,938.63	1.75	0.87	1.52	
8,206.00	90.80	339.80	6,487.81	1,870.56	-660.33	1,983.61	0.50	0.22	0.44	
8,249.00	89.30	340.50	6,487.77	1,911.00	-674.93	2,026.61	3.85	-3.49	1.63	
8,294.00	89.90	340.30	6,488.08	1,953.39	-690.03	2,071.60	1.41	1.33	-0.44	
8,339.00	90.20	340.20	6,488.04	1,995.74	-705.23	2,116.60	0.70	0.67	-0.22	
8,383.00	89.70	341.70	6,488.08	2,037.33	-719.59	2,160.60	3.59	-1.14	3.41	
8,428.00	89.70	341.00	6,488.32	2,079.97	-733.98	2,205.60	1.56	0.00	-1.56	
8,473.00	88.40	341.70	6,489.06	2,122.60	-748.37	2,250.59	3.28	-2.89	1.56	
8,518.00	88.40	341.70	6,490.32	2,165.31	-762.49	2,295.57	0.00	0.00	0.00	
8,561.00	88.50	341.70	6,491.48	2,206.12	-775.99	2,338.55	0.23	0.23	0.00	
8,605.00	88.70	341.70	6,492.56	2,247.88	-789.80	2,382.53	0.45	0.45	0.00	
8,649.00	89.40	342.60	6,493.29	2,289.76	-803.29	2,426.52	2.59	1.59	2.05	
8,694.00	89.90	342.80	6,493.56	2,332.72	-816.67	2,471.50	1.20	1.11	0.44	
8,738.00	90.30	342.80	6,493.49	2,374.75	-829.68	2,515.48	0.91	0.91	0.00	
8,783.00	90.00	341.90	6,493.37	2,417.63	-843.32	2,560.47	2.11	-0.67	-2.00	
8,828.00	89.40	342.30	6,493.60	2,460.45	-857.16	2,605.46	1.60	-1.33	0.89	
8,874.00	89.60	342.40	6,494.00	2,504.29	-871.10	2,651.44	0.49	0.43	0.22	
8,917.00	89.30	341.40	6,494.42	2,545.16	-884.46	2,694.44	2.43	-0.70	-2.33	
8,962.00	89.50	340.90	6,494.89	2,587.74	-899.00	2,739.43	1.20	0.44	-1.11	
9,007.00	89.00	340.20	6,495.48	2,630.17	-913.98	2,784.43	1.91	-1.11	-1.56	
9,051.00	89.20	339.60	6,496.17	2,671.48	-929.10	2,828.41	1.44	0.45	-1.36	

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 36-24-9-61
Project:	Weld County, Colorado	TVD Reference:	WELL @ 5029.40usft (Extreme #15)
Site:	State	MD Reference:	WELL @ 5029.40usft (Extreme #15)
Well:	36-24-9-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM R5000 Server

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,096.00	90.40	341.40	6,496.33	2,713.90	-944.12	2,873.41	4.81	2.67	4.00	
9,141.00	90.30	342.60	6,496.05	2,756.69	-958.03	2,918.40	2.68	-0.22	2.67	
9,187.00	89.30	342.10	6,496.21	2,800.53	-971.97	2,964.39	2.43	-2.17	-1.09	
9,232.00	89.10	341.90	6,496.84	2,843.32	-985.88	3,009.38	0.63	-0.44	-0.44	
9,277.00	89.50	342.60	6,497.39	2,886.18	-999.59	3,054.36	1.79	0.89	1.56	
9,320.00	89.70	342.40	6,497.69	2,927.18	-1,012.52	3,097.35	0.66	0.47	-0.47	
9,364.00	90.10	342.80	6,497.77	2,969.17	-1,025.68	3,141.33	1.29	0.91	0.91	
9,408.00	88.90	341.60	6,498.15	3,011.06	-1,039.13	3,185.32	3.86	-2.73	-2.73	
9,451.00	89.60	341.60	6,498.71	3,051.86	-1,052.70	3,228.31	1.63	1.63	0.00	
9,496.00	89.90	341.60	6,498.91	3,094.56	-1,066.91	3,273.31	0.67	0.67	0.00	
9,542.00	89.00	340.50	6,499.35	3,138.06	-1,081.84	3,319.31	3.09	-1.96	-2.39	
9,586.00	87.90	340.00	6,500.54	3,179.46	-1,096.71	3,363.29	2.75	-2.50	-1.14	
9,630.00	87.80	341.40	6,502.19	3,220.95	-1,111.24	3,407.25	3.19	-0.23	3.18	
9,675.00	88.00	341.20	6,503.84	3,263.55	-1,125.66	3,452.22	0.63	0.44	-0.44	
9,719.00	88.30	340.90	6,505.26	3,305.14	-1,139.94	3,496.20	0.96	0.68	-0.68	
9,763.00	88.40	340.70	6,506.53	3,346.68	-1,154.40	3,540.18	0.51	0.23	-0.45	
9,808.00	88.80	341.20	6,507.63	3,389.20	-1,169.09	3,585.17	1.42	0.89	1.11	
9,853.00	89.10	341.00	6,508.45	3,431.77	-1,183.66	3,630.16	0.80	0.67	-0.44	
9,898.00	88.50	341.60	6,509.40	3,474.38	-1,198.08	3,675.15	1.89	-1.33	1.33	
9,943.00	89.00	341.20	6,510.38	3,517.02	-1,212.43	3,720.14	1.42	1.11	-0.89	
9,987.00	88.10	342.10	6,511.49	3,558.77	-1,226.28	3,764.12	2.89	-2.05	2.05	
10,030.00	88.20	342.10	6,512.88	3,599.67	-1,239.49	3,807.09	0.23	0.23	0.00	
10,075.00	88.50	341.70	6,514.17	3,642.42	-1,253.47	3,852.07	1.11	0.67	-0.89	
10,119.00	88.70	341.90	6,515.25	3,684.21	-1,267.20	3,896.05	0.64	0.45	0.45	
10,142.00	89.10	342.30	6,515.69	3,706.09	-1,274.27	3,919.04	2.46	1.74	1.74	
10,195.00	89.10	342.30	6,516.52	3,756.58	-1,290.38	3,972.02	0.00	0.00	0.00	
Projection to TD-10195.00' MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,800.00	5,799.80	13.25	0.79	Tie-In to MS Gyro-5800.00' MD	
10,195.00	6,516.52	3,756.58	-1,290.38	Projection to TD-10195.00' MD	