



CARRIZO OIL & GAS

MS #DDCO-110095

**Sohio State #1
Weld County, Colorado
Bayou Well Service 10**

March 2, 2011

***Prepared By:
Marla Tinney***



Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well Well #1
Project:	Weld County, Colorado	TVD Reference:	WELL @ 4999.40usft (Bayou Well Service 10)
Site:	Sohio State	MD Reference:	WELL @ 4999.40usft (Bayou Well Service 10)
Well:	Well #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

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	Well #1				
Well Position	+N/-S	0.00 usft	Northing:	1,502,018.72 usft	Latitude: 40° 42' 13.247 N
	+E/-W	0.00 usft	Easting:	3,372,665.64 usft	Longitude: 104° 9' 21.096 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 4,999.40 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	02/21/11	8.59	67.41	53,396

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	154.05	

Survey Program	Date	03/02/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
5,080.00	6,591.00	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	
5,080.00	4.00	147.30	5,075.87	-149.16	95.76	176.02	0.08	0.08	0.00	
Assumed Vertical-5080' MD										
5,112.00	3.80	147.30	5,107.80	-150.99	96.94	178.18	0.63	-0.63	0.00	
5,143.00	3.90	149.90	5,138.73	-152.77	98.02	180.26	0.65	0.32	8.39	
5,175.00	3.90	146.40	5,170.66	-154.62	99.17	182.42	0.74	0.00	-10.94	
5,207.00	3.80	145.50	5,202.58	-156.40	100.37	184.55	0.37	-0.31	-2.81	
5,238.00	4.10	142.90	5,233.51	-158.13	101.62	186.65	1.13	0.97	-8.39	
5,270.00	4.10	147.10	5,265.43	-160.00	102.93	188.91	0.94	0.00	13.13	
5,302.00	2.90	146.10	5,297.37	-161.63	104.00	190.85	3.75	-3.75	-3.13	
5,333.00	1.10	146.90	5,328.35	-162.53	104.60	191.92	5.81	-5.81	2.58	
5,365.00	0.40	45.90	5,360.35	-162.71	104.85	192.19	3.88	-2.19	-315.63	
5,397.00	0.30	1.60	5,392.35	-162.55	104.93	192.08	0.87	-0.31	-138.44	
5,428.00	0.50	16.70	5,423.34	-162.34	104.98	191.91	0.72	0.65	48.71	
5,460.00	0.80	291.30	5,455.34	-162.13	104.81	191.64	2.84	0.94	-266.88	
5,492.00	1.80	277.00	5,487.33	-161.98	104.10	191.20	3.26	3.13	-44.69	

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Well:	Well #1	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

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)
5,523.00	3.00	262.30	5,518.31	-162.03	102.81	190.68	4.32	3.87	-47.42
5,555.00	4.80	260.50	5,550.23	-162.37	100.66	190.04	5.64	5.63	-5.63
5,587.00	4.70	259.40	5,582.12	-162.83	98.05	189.32	0.42	-0.31	-3.44
5,618.00	4.50	260.50	5,613.02	-163.26	95.61	188.64	0.71	-0.65	3.55
5,650.00	4.60	258.70	5,644.92	-163.72	93.11	187.96	0.54	0.31	-5.63
5,682.00	4.70	258.20	5,676.82	-164.24	90.57	187.31	0.34	0.31	-1.56
5,713.00	4.00	253.50	5,707.73	-164.81	88.29	186.82	2.53	-2.26	-15.16
5,745.00	4.00	250.50	5,739.65	-165.50	86.17	186.52	0.65	0.00	-9.38
5,777.00	4.00	254.20	5,771.57	-166.17	84.04	186.19	0.81	0.00	11.56
5,808.00	3.70	252.40	5,802.50	-166.77	82.05	185.86	1.04	-0.97	-5.81
5,840.00	2.80	260.10	5,834.45	-167.22	80.29	185.49	3.12	-2.81	24.06
5,872.00	2.30	267.70	5,866.42	-167.38	78.88	185.02	1.88	-1.56	23.75
5,904.00	1.10	290.90	5,898.40	-167.29	77.95	184.54	4.25	-3.75	72.50
5,935.00	0.90	4.70	5,929.40	-166.94	77.69	184.11	3.91	-0.65	238.06
5,967.00	1.00	21.10	5,961.40	-166.43	77.82	183.70	0.90	0.31	51.25
5,999.00	1.10	36.00	5,993.39	-165.92	78.10	183.37	0.91	0.31	46.56
6,030.00	0.60	32.00	6,024.39	-165.55	78.36	183.14	1.62	-1.61	-12.90
6,094.00	0.20	5.40	6,088.38	-165.15	78.55	182.87	0.67	-0.63	-41.56
6,157.00	0.50	19.10	6,151.38	-164.78	78.65	182.58	0.49	0.48	21.75
6,221.00	0.20	46.40	6,215.38	-164.44	78.82	182.35	0.52	-0.47	42.66
6,284.00	0.40	29.00	6,278.38	-164.17	79.00	182.19	0.35	0.32	-27.62
6,347.00	0.20	303.00	6,341.38	-163.92	79.02	181.97	0.69	-0.32	-136.51
6,410.00	0.40	123.00	6,404.38	-163.98	79.11	182.06	0.95	0.32	285.71
6,474.00	0.50	114.20	6,468.38	-164.22	79.55	182.47	0.19	0.16	-13.75
6,537.00	0.40	141.00	6,531.38	-164.50	79.94	182.90	0.37	-0.16	42.54
6,591.00	0.40	141.00	6,585.38	-164.79	80.18	183.26	0.00	0.00	0.00
Projection to TD-6591.00' MD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,080.00	5,075.87	-149.16	95.76	Assumed Vertical-5080' MD
6,591.00	6,585.38	-164.79	80.18	Projection to TD-6591.00' MD