

DIRECTIONAL SURVEY REPORT



Company :	Civitas Resources	Gyrodata Job Number:	RM1125GDM196
Field :	Arapaho County, CO	Survey Calculation Method:	MINIMUM CURVATURE
Rig / Platform :	Ensign 532	TVD Reference Datum:	Rotary Table
Well :	NE Lowry State, 5-17	TVD Reference Elevation:	12.00 ft. Above GL
Survey Date :	10-November-2025	Ground Level Elevation:	5846.00 ft. Above MSL
Survey Section :	4" DP	Horizontal Co-ordinates Reference :	Wellhead
North Reference :	True North	Closure Reference	Wellhead
Grid Correction :	Not Applicable	Vertical Section Reference	Wellhead

Site			
Latitude (°) :	39.610294°	Longitude (°) :	-104.588786°
Northing:		Easting:	
Well:			
Co-ordinates			
+N / -S:		+E / -W:	
Survey coordinates obtained from:			

Vertical Section :
Azimuth (°) :

Survey Tool Program			
From :	0.00 ft.	To :	7736.45 ft.
Tool Type :		Description :	Multishot - Drop

Operator	
Survey Specialist:	Ashley Grijalva

MEASURED DEPTH ft.	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./100 ft.	VERTICAL DEPTH ft.	CLOSURE Distance ft	CLOSURE AZIMUTH deg.	NS ft.	EW ft.
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52.50	2.20	246.19	4.19	52.49	1.01	246.19	-0.41	-0.92
83.50	1.84	246.71	1.16	83.47	2.10	246.31	-0.84	-1.92
144.50	1.11	252.00	1.22	144.45	3.67	247.33	-1.41	-3.38
235.50	0.58	273.24	0.67	235.44	4.97	250.48	-1.66	-4.68
342.50	0.20	294.04	0.37	342.43	5.61	253.94	-1.55	-5.39
431.50	0.15	268.40	0.10	431.43	5.85	255.20	-1.49	-5.65
521.50	0.08	299.98	0.10	521.43	6.01	255.88	-1.47	-5.82
610.50	0.02	88.62	0.11	610.43	6.04	256.26	-1.43	-5.86
698.50	0.17	320.74	0.21	698.43	6.08	257.34	-1.33	-5.93
787.50	0.28	305.48	0.14	787.43	6.29	259.89	-1.10	-6.19
876.50	0.22	306.48	0.07	876.43	6.56	262.33	-0.88	-6.51
965.50	0.28	316.44	0.08	965.43	6.82	264.81	-0.62	-6.79
1054.50	0.36	351.58	0.23	1054.43	6.99	268.50	-0.18	-6.98
1143.50	0.47	352.39	0.12	1143.43	7.09	273.69	0.46	-7.07
1232.50	0.62	35.08	0.47	1232.42	6.95	280.04	1.21	-6.84
1321.50	0.66	58.58	0.30	1321.42	6.41	286.99	1.87	-6.13
1410.50	0.63	91.75	0.41	1410.41	5.62	292.21	2.13	-5.20
1499.50	0.77	105.13	0.24	1499.41	4.58	295.28	1.95	-4.14
1587.50	0.43	108.18	0.39	1587.40	3.67	297.55	1.70	-3.25
1677.50	0.48	68.44	0.35	1677.40	3.11	303.83	1.73	-2.58
1766.50	0.34	25.20	0.37	1766.40	2.99	314.78	2.11	-2.12
1855.50	0.32	21.73	0.03	1855.40	3.21	323.33	2.58	-1.92
1944.50	0.34	26.55	0.04	1944.39	3.49	330.70	3.04	-1.71
2033.50	0.46	15.57	0.16	2033.39	3.92	337.59	3.62	-1.49

MEASURED DEPTH	INCL	AZIMUTH	DOGLEG SEVERITY	VERTICAL DEPTH	CLOSURE Distance	CLOSURE AZIMUTH	NS	EW
2122.50	0.45	354.83	0.18	2122.39	4.55	341.67	4.32	-1.43
2211.50	0.42	334.53	0.18	2211.39	5.21	342.10	4.96	-1.60
2300.50	0.38	333.54	0.05	2300.38	5.83	341.25	5.52	-1.87
2390.50	0.17	359.24	0.26	2390.38	6.25	341.26	5.92	-2.01
2479.50	0.19	295.94	0.21	2479.38	6.48	340.69	6.11	-2.14
2568.50	0.10	264.61	0.13	2568.38	6.60	339.13	6.17	-2.35
2657.50	0.11	228.05	0.07	2657.38	6.60	337.79	6.11	-2.49
2746.50	0.50	249.90	0.45	2746.38	6.60	333.72	5.92	-2.92
2835.50	0.40	240.38	0.14	2835.38	6.66	327.72	5.63	-3.56
2924.50	0.46	209.34	0.27	2924.38	6.53	322.23	5.16	-4.00
3013.50	0.42	224.74	0.14	3013.37	6.38	316.37	4.62	-4.41
3102.50	0.62	256.18	0.38	3102.37	6.66	309.95	4.27	-5.10
3191.50	0.57	241.59	0.18	3191.37	7.15	303.53	3.95	-5.96
3281.50	0.59	263.65	0.25	3281.36	7.75	298.40	3.68	-6.81
3369.50	0.56	296.36	0.37	3369.36	8.55	296.57	3.83	-7.65
3458.50	0.45	319.04	0.25	3458.35	9.31	297.38	4.28	-8.27
3547.50	0.26	330.81	0.23	3547.35	9.81	298.78	4.72	-8.60
3636.50	0.11	322.77	0.17	3636.35	10.06	299.59	4.97	-8.75
3726.50	0.23	232.39	0.28	3726.35	10.21	298.85	4.93	-8.94
3814.50	0.33	261.26	0.19	3814.35	10.48	297.12	4.78	-9.33
3904.50	0.15	253.10	0.20	3904.35	10.78	295.88	4.71	-9.70
3993.50	0.12	241.19	0.05	3993.35	10.92	295.06	4.63	-9.89
4082.50	0.16	57.31	0.31	4082.35	10.91	295.22	4.65	-9.87
4172.50	0.15	38.70	0.06	4172.35	10.82	296.39	4.81	-9.69
4261.50	0.13	140.23	0.24	4261.35	10.70	296.78	4.82	-9.55
4350.50	0.19	51.35	0.26	4350.35	10.55	297.29	4.84	-9.37
4439.50	0.06	70.17	0.15	4439.35	10.46	298.22	4.94	-9.22

MEASURED DEPTH	INCL	AZIMUTH	DOGLEG SEVERITY	VERTICAL DEPTH	CLOSURE Distance	CLOSURE AZIMUTH	NS	EW
4527.50	0.02	161.11	0.07	4527.35	10.42	298.35	4.95	-9.17
4617.50	0.32	218.29	0.34	4617.35	10.45	296.93	4.73	-9.32
4706.50	0.55	240.46	0.32	4706.34	10.75	293.73	4.33	-9.84
4795.50	0.56	236.74	0.04	4795.34	11.27	290.14	3.88	-10.58
4884.50	0.72	248.89	0.23	4884.33	11.97	286.70	3.44	-11.46
4973.50	0.49	274.92	0.40	4973.33	12.79	284.81	3.27	-12.37
5062.50	0.50	283.48	0.08	5062.33	13.55	284.50	3.39	-13.12
5152.50	0.03	289.29	0.52	5152.33	13.97	284.48	3.49	-13.53
5241.50	0.17	71.75	0.22	5241.33	13.88	284.78	3.54	-13.42
5330.50	0.44	62.29	0.31	5330.32	13.52	286.06	3.74	-12.99
5419.50	0.38	87.07	0.21	5419.32	13.00	287.53	3.92	-12.40
5509.50	0.32	105.95	0.14	5509.32	12.47	288.04	3.86	-11.86
5598.50	0.19	108.79	0.15	5598.32	12.07	288.07	3.75	-11.48
5687.50	0.32	91.38	0.17	5687.32	11.69	288.41	3.69	-11.09
5776.50	0.38	56.10	0.25	5776.32	11.28	289.97	3.85	-10.60
5865.50	0.55	62.92	0.20	5865.31	10.82	292.89	4.21	-9.97
5954.50	0.52	66.52	0.05	5954.31	10.29	296.34	4.57	-9.22
6043.50	0.57	58.71	0.10	6043.31	9.82	300.33	4.96	-8.47
6132.50	0.40	52.61	0.20	6132.30	9.51	304.41	5.38	-7.85
6220.50	0.38	32.52	0.16	6220.30	9.44	307.95	5.81	-7.45
6309.50	0.60	58.92	0.35	6309.30	9.33	312.43	6.30	-6.89
6399.50	0.66	39.11	0.25	6399.29	9.28	318.43	6.94	-6.16
6488.50	0.57	47.54	0.14	6488.29	9.42	324.21	7.64	-5.51
6577.50	0.72	57.14	0.21	6577.28	9.49	330.24	8.24	-4.71
6666.50	0.87	36.87	0.36	6666.27	9.86	337.11	9.09	-3.84
6755.50	1.38	12.38	0.78	6755.26	11.14	343.30	10.67	-3.20
6844.50	1.16	6.27	0.29	6844.23	12.94	347.17	12.62	-2.87

MEASURED DEPTH	INCL	AZIMUTH	DOGLEG SEVERITY	VERTICAL DEPTH	CLOSURE Distance	CLOSURE AZIMUTH	NS	EW
6933.93	1.32	357.13	0.28	6933.64	14.82	349.00	14.54	-2.83
7022.96	2.27	354.27	1.07	7022.63	17.59	350.00	17.32	-3.05
7112.35	2.93	345.21	0.87	7111.93	21.63	349.85	21.29	-3.81
7201.86' - Data quality was not good enough to present in survey								
7291.10	4.49	7.42	0.89	7290.23	33.65	356.85	33.59	-1.85
7380.91	3.80	19.42	1.23	7379.80	39.89	359.42	39.89	-0.40
7469.83	3.36	29.83	0.88	7468.55	44.97	2.39	44.93	1.87
7558.90	3.13	47.29	1.13	7557.48	49.09	5.80	48.84	4.96
7647.58	2.85	44.19	0.36	7646.04	52.72	9.03	52.06	8.27
7736.45	2.92	57.26	0.74	7734.80	56.11	12.05	54.87	11.72

Final Station Closure: Distance: 56.11 ft Az: 12.05°