



SUMMIT
SLICKLINE INC.

Company: CIVITAS
Lease / Well: WANDELL 21-7
County/Parish: WELD
State: CO
Date: 4/1/2025
Rig: NA
Surveyor: MARK LOAR
Job Number: 17098-512319867
Instrument Number: GP1-3123 **Type:** MEMORY
Proposed Direction: 0 **GL Elev:** 4866
Magnetic Declination: 9.38 EAST TO TRUE NORTH
Calculation Method: MINIMUM OF CURVATURE
Log Measured From: GL

TIE-IN Coordinates

Measured Depth (ft.)	Inclination	Azimuth Bearing	Vertical Depth	Coordinates (+N/-S) (+E/-W)	
0	0.00	0.00	0.00	0.00	0.00

Directional Survey Report

Measured Depth (ft.)	Inclination	Azimuth Bearing	Vertical Depth	Vertical Section	Coordinates (+N/-S) (+E/-W)		Dog-Leg / 100 ft.	Closure Distance	Closure Direction
100	0.26	80.56	100.00	0.04	0.04	0.22	0.26	0.23	80.56°
200	0.34	88.64	200.00	0.08	0.08	0.74	0.09	0.75	83.75°
300	0.51	45.42	300.00	0.40	0.40	1.36	0.35	1.42	73.55°
400	0.74	32.14	399.99	1.26	1.26	2.02	0.27	2.38	58.02°
500	1.08	37.92	499.98	2.55	2.55	2.94	0.35	3.89	49.07°
600	1.08	36.95	599.96	4.05	4.05	4.09	0.02	5.75	45.28°
700	1.04	38.39	699.94	5.51	5.51	5.22	0.05	7.59	43.43°
800	1.05	36.60	799.93	6.96	6.96	6.33	0.03	9.40	42.28°
900	1.13	31.14	899.91	8.54	8.54	7.38	0.13	11.29	40.85°
1000	1.24	36.66	999.89	10.25	10.25	8.54	0.16	13.34	39.80°
1100	1.25	38.09	1099.86	11.98	11.98	9.86	0.03	15.51	39.46°
1200	1.23	37.73	1199.84	13.68	13.68	11.19	0.02	17.67	39.27°
1300	1.12	43.53	1299.82	15.24	15.24	12.52	0.16	19.72	39.40°
1400	0.97	49.45	1399.80	16.50	16.50	13.83	0.18	21.53	39.98°
1500	0.89	66.31	1499.79	17.36	17.36	15.19	0.28	23.07	41.18°
1600	1.08	84.29	1599.77	17.77	17.77	16.84	0.36	24.48	43.46°
1700	1.09	98.74	1699.76	17.72	17.72	18.71	0.27	25.77	46.57°
1800	1.09	105.49	1799.74	17.32	17.32	20.57	0.13	26.89	49.91°
1900	1.33	104.78	1899.72	16.77	16.77	22.61	0.24	28.15	53.44°
2000	1.55	96.85	1999.68	16.31	16.31	25.08	0.30	29.91	56.96°
2100	1.63	91.49	2099.65	16.11	16.11	27.84	0.17	32.17	59.94°
2200	1.67	82.44	2199.60	16.27	16.27	30.71	0.26	34.75	62.09°
2300	1.98	62.66	2299.55	17.25	17.25	33.69	0.70	37.85	62.88°
2400	2.16	57.10	2399.49	19.07	19.07	36.80	0.27	41.45	62.61°
2500	2.25	56.67	2499.42	21.17	21.17	40.02	0.09	45.28	62.12°
2600	2.01	56.33	2599.35	23.22	23.22	43.12	0.24	48.98	61.70°
2700	1.75	57.29	2699.29	25.02	25.02	45.87	0.26	52.25	61.39°
2800	1.75	58.49	2799.25	26.64	26.64	48.45	0.04	55.30	61.20°
2900	1.77	60.64	2899.20	28.20	28.20	51.10	0.07	58.37	61.11°
3000	1.91	63.23	2999.15	29.71	29.71	53.94	0.16	61.58	61.16°
3100	1.75	59.41	3099.10	31.23	31.23	56.74	0.20	64.77	61.17°
3200	1.15	61.17	3199.06	32.50	32.50	58.93	0.60	67.30	61.13°
3300	0.60	69.53	3299.05	33.16	33.16	60.30	0.56	68.82	61.19°
3400	0.11	63.85	3399.05	33.39	33.39	60.88	0.49	69.43	61.26°
3500	0.32	219.01	3499.05	33.21	33.21	60.79	0.42	69.27	61.35°
3600	1.30	223.11	3599.04	32.17	32.17	59.84	0.98	67.94	61.74°
3700	1.51	221.97	3699.01	30.36	30.36	58.18	0.21	65.63	62.44°
3800	1.43	215.95	3798.97	28.37	28.37	56.57	0.17	63.28	63.37°
3900	0.77	229.61	3898.96	26.92	26.92	55.32	0.71	61.53	64.05°
4000	0.26	304.43	3998.95	26.62	26.62	54.62	0.75	60.76	64.02°
4100	0.64	4.33	4098.95	27.30	27.30	54.48	0.56	60.94	63.38°
4200	0.81	30.51	4198.94	28.47	28.47	54.88	0.37	61.83	62.58°
4300	1.04	40.03	4298.93	29.77	29.77	55.82	0.28	63.27	61.93°
4400	0.99	48.11	4398.91	31.04	31.04	57.05	0.15	64.95	61.45°
4500	0.94	47.08	4498.90	32.18	32.18	58.29	0.05	66.59	61.10°

Directional Survey Report									
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4600	1.03	50.98	4598.88	33.30	33.30	59.59	0.11	68.27	60.80°
4700	0.93	50.40	4698.87	34.39	34.39	60.92	0.10	69.95	60.56°
4800	0.81	77.02	4798.86	35.06	35.06	62.23	0.42	71.43	60.60°
4900	0.84	80.99	4898.85	35.34	35.34	63.64	0.06	72.80	60.96°
5000	0.78	87.30	4998.84	35.48	35.48	65.05	0.11	74.10	61.39°
5100	0.77	87.01	5098.83	35.55	35.55	66.40	0.01	75.32	61.83°
5200	0.79	93.94	5198.82	35.54	35.54	67.76	0.10	76.51	62.32°
5300	0.80	91.01	5298.81	35.48	35.48	69.14	0.04	77.71	62.84°
5400	0.78	90.96	5398.80	35.46	35.46	70.52	0.02	78.93	63.31°
5500	0.80	83.60	5498.79	35.52	35.52	71.90	0.10	80.19	63.71°
5600	0.87	82.93	5598.78	35.69	35.69	73.34	0.07	81.57	64.05°
5700	0.63	73.51	5698.77	35.94	35.94	74.62	0.27	82.83	64.28°
5800	0.63	74.17	5798.77	36.25	36.25	75.68	0.01	83.91	64.41°
5900	0.41	61.05	5898.76	36.57	36.57	76.52	0.25	84.81	64.46°
6000	0.23	66.66	5998.76	36.82	36.82	77.02	0.18	85.37	64.45°
6100	0.25	69.28	6098.76	36.98	36.98	77.41	0.02	85.79	64.46°
6200	0.09	49.32	6198.76	37.11	37.11	77.67	0.17	86.08	64.46°
6300	0.05	68.56	6298.76	37.18	37.18	77.77	0.05	86.20	64.45°
6400	0.04	36.37	6398.76	37.22	37.22	77.83	0.03	86.27	64.44°
6500	0.31	91.89	6498.76	37.24	37.24	78.12	0.29	86.55	64.51°
6600	0.40	71.45	6598.76	37.34	37.34	78.72	0.15	87.13	64.62°
6700	0.41	58.07	6698.75	37.64	37.64	79.36	0.09	87.83	64.62°
6800	0.40	49.33	6798.75	38.06	38.06	79.93	0.06	88.53	64.54°
6900	0.53	45.82	6898.75	38.61	38.61	80.52	0.13	89.30	64.38°
7000	0.56	35.78	6998.74	39.33	39.33	81.14	0.10	90.17	64.14°
7100	0.92	58.59	7098.73	40.14	40.14	82.11	0.46	91.40	63.95°
7200	2.08	37.21	7198.70	42.01	42.01	83.90	1.27	93.82	63.40°
7300	1.95	27.96	7298.64	44.95	44.95	85.79	0.35	96.85	62.35°
7400	1.02	27.05	7398.60	47.25	47.25	86.99	0.93	99.00	61.49°
7500	0.84	10.77	7498.59	48.76	48.76	87.53	0.32	100.20	60.88°
7600	0.69	21.49	7598.58	50.04	50.04	87.89	0.21	101.14	60.34°
7700	0.82	39.66	7698.57	51.15	51.15	88.57	0.27	102.28	59.99°

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