

SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: Ertl 2-18
State/County: CO/Boulder
API#: 0501306061

Survey Type: Memory
North Reference: True
Rig Name:
RKB:

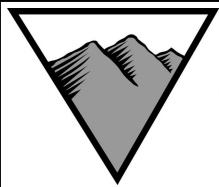
Date: 2/8/2023
Job Number: 14199-501306061
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

Summit Oilfield Services

*Minimum Curvature Method
Vertical Section Plane: 0.00
Vertical Section Reference:
Rectangular Coordinates Reference:*

Measured Depth	Indin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
0.00 ft	0.00	0.00	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00	0.00/100 ft
100.00 ft	0.48	241.67	100.00 ft	100.00 ft	-0.20 ft	-0.20 ft	-0.37 ft	0.42 ft	241.67	0.48/100 ft
200.00 ft	0.56	246.89	100.00 ft	199.99 ft	-0.59 ft	-0.59 ft	-1.19 ft	1.33 ft	243.57	0.09/100 ft
300.00 ft	0.50	246.53	100.00 ft	299.99 ft	-0.96 ft	-0.96 ft	-2.04 ft	2.25 ft	244.86	0.05/100 ft
400.00 ft	0.73	237.54	100.00 ft	399.98 ft	-1.47 ft	-1.47 ft	-2.98 ft	3.32 ft	243.68	0.25/100 ft
500.00 ft	1.22	231.65	100.00 ft	499.97 ft	-2.47 ft	-2.47 ft	-4.35 ft	5.00 ft	240.36	0.50/100 ft
600.00 ft	1.75	236.83	100.00 ft	599.94 ft	-3.97 ft	-3.97 ft	-6.46 ft	7.58 ft	238.43	0.54/100 ft
700.00 ft	1.81	237.49	100.00 ft	699.89 ft	-5.65 ft	-5.65 ft	-9.06 ft	10.68 ft	238.07	0.06/100 ft
800.00 ft	1.51	236.57	100.00 ft	799.85 ft	-7.22 ft	-7.22 ft	-11.50 ft	13.58 ft	237.85	0.30/100 ft
900.00 ft	1.53	235.89	100.00 ft	899.81 ft	-8.70 ft	-8.70 ft	-13.70 ft	16.23 ft	237.59	0.02/100 ft
1000.00 ft	1.49	237.49	100.00 ft	999.78 ft	-10.15 ft	-10.15 ft	-15.90 ft	18.86 ft	237.46	0.05/100 ft
1100.00 ft	1.45	234.82	100.00 ft	1099.74 ft	-11.58 ft	-11.58 ft	-18.04 ft	21.43 ft	237.31	0.08/100 ft
1200.00 ft	1.37	233.84	100.00 ft	1199.71 ft	-13.01 ft	-13.01 ft	-20.04 ft	23.89 ft	237.00	0.09/100 ft

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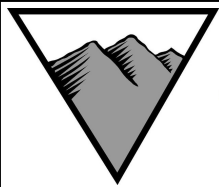
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Date: 2/8/2023
Job Number: 14199-501306061
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
1300.00 ft	1.40	234.92	100.00 ft	1299.68 ft	-14.42 ft	-14.42 ft	-22.00 ft	26.30 ft	236.76	0.04/100 ft
1400.00 ft	1.41	233.93	100.00 ft	1399.65 ft	-15.85 ft	-15.85 ft	-24.00 ft	28.76 ft	236.56	0.03/100 ft
1500.00 ft	1.43	232.65	100.00 ft	1499.62 ft	-17.33 ft	-17.33 ft	-25.99 ft	31.24 ft	236.30	0.04/100 ft
1600.00 ft	1.44	236.61	100.00 ft	1599.59 ft	-18.78 ft	-18.78 ft	-28.03 ft	33.74 ft	236.18	0.10/100 ft
1700.00 ft	1.40	238.54	100.00 ft	1699.56 ft	-20.11 ft	-20.11 ft	-30.12 ft	36.22 ft	236.27	0.07/100 ft
1800.00 ft	1.40	242.11	100.00 ft	1799.53 ft	-21.31 ft	-21.31 ft	-32.24 ft	38.65 ft	236.53	0.09/100 ft
1900.00 ft	1.41	250.37	100.00 ft	1899.50 ft	-22.30 ft	-22.30 ft	-34.48 ft	41.06 ft	237.11	0.20/100 ft
2000.00 ft	1.48	248.15	100.00 ft	1999.47 ft	-23.20 ft	-23.20 ft	-36.84 ft	43.53 ft	237.80	0.09/100 ft
2100.00 ft	1.28	245.64	100.00 ft	2099.44 ft	-24.14 ft	-24.14 ft	-39.06 ft	45.92 ft	238.29	0.21/100 ft
2200.00 ft	0.88	243.45	100.00 ft	2199.42 ft	-24.94 ft	-24.94 ft	-40.77 ft	47.80 ft	238.54	0.40/100 ft
2300.00 ft	0.62	237.52	100.00 ft	2299.41 ft	-25.58 ft	-25.58 ft	-41.92 ft	49.11 ft	238.61	0.27/100 ft
2400.00 ft	0.41	204.24	100.00 ft	2399.41 ft	-26.20 ft	-26.20 ft	-42.52 ft	49.95 ft	238.36	0.36/100 ft
2500.00 ft	0.36	206.54	100.00 ft	2499.41 ft	-26.80 ft	-26.80 ft	-42.81 ft	50.51 ft	237.95	0.06/100 ft
2600.00 ft	0.33	200.82	100.00 ft	2599.40 ft	-27.35 ft	-27.35 ft	-43.05 ft	51.00 ft	237.57	0.04/100 ft
2700.00 ft	0.24	190.72	100.00 ft	2699.40 ft	-27.83 ft	-27.83 ft	-43.19 ft	51.38 ft	237.21	0.10/100 ft
2800.00 ft	0.10	94.09	100.00 ft	2799.40 ft	-28.04 ft	-28.04 ft	-43.14 ft	51.45 ft	236.98	0.28/100 ft
2900.00 ft	0.43	19.33	100.00 ft	2899.40 ft	-27.69 ft	-27.69 ft	-42.92 ft	51.08 ft	237.17	0.42/100 ft
3000.00 ft	0.48	18.33	100.00 ft	2999.40 ft	-26.94 ft	-26.94 ft	-42.67 ft	50.46 ft	237.73	0.05/100 ft
3100.00 ft	0.80	13.46	100.00 ft	3099.39 ft	-25.87 ft	-25.87 ft	-42.37 ft	49.65 ft	238.60	0.33/100 ft
3200.00 ft	0.87	18.54	100.00 ft	3199.38 ft	-24.47 ft	-24.47 ft	-41.97 ft	48.58 ft	239.76	0.10/100 ft
3300.00 ft	0.84	15.80	100.00 ft	3299.37 ft	-23.04 ft	-23.04 ft	-41.53 ft	47.49 ft	240.98	0.05/100 ft

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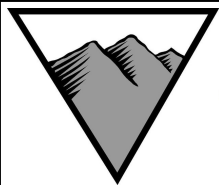
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Survey Type: Memory
North Reference: True
Rig Name:
RKB:

Date: 2/8/2023
Job Number: 14199-501306061
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
3400.00 ft	0.87	346.82	100.00 ft	3399.36 ft	-21.60 ft	-21.60 ft	-41.50 ft	46.79 ft	242.51	0.43/100 ft
3500.00 ft	0.89	325.04	100.00 ft	3499.35 ft	-20.23 ft	-20.23 ft	-42.12 ft	46.72 ft	244.35	0.33/100 ft
3600.00 ft	0.97	328.54	100.00 ft	3599.34 ft	-18.87 ft	-18.87 ft	-43.01 ft	46.96 ft	246.31	0.10/100 ft
3700.00 ft	1.11	327.36	100.00 ft	3699.32 ft	-17.33 ft	-17.33 ft	-43.97 ft	47.26 ft	248.49	0.14/100 ft
3800.00 ft	1.11	322.07	100.00 ft	3799.30 ft	-15.75 ft	-15.75 ft	-45.09 ft	47.76 ft	250.74	0.10/100 ft
3900.00 ft	1.06	328.69	100.00 ft	3899.28 ft	-14.20 ft	-14.20 ft	-46.16 ft	48.29 ft	252.90	0.13/100 ft
4000.00 ft	1.18	328.23	100.00 ft	3999.26 ft	-12.54 ft	-12.54 ft	-47.18 ft	48.82 ft	255.11	0.12/100 ft
4100.00 ft	1.08	325.53	100.00 ft	4099.24 ft	-10.89 ft	-10.89 ft	-48.25 ft	49.47 ft	257.28	0.11/100 ft
4200.00 ft	0.87	324.49	100.00 ft	4199.23 ft	-9.49 ft	-9.49 ft	-49.23 ft	50.14 ft	259.09	0.21/100 ft
4300.00 ft	0.98	318.17	100.00 ft	4299.22 ft	-8.23 ft	-8.23 ft	-50.24 ft	50.91 ft	260.69	0.14/100 ft
4400.00 ft	0.78	341.09	100.00 ft	4399.21 ft	-6.95 ft	-6.95 ft	-51.03 ft	51.50 ft	262.24	0.40/100 ft
4500.00 ft	0.78	335.23	100.00 ft	4499.20 ft	-5.69 ft	-5.69 ft	-51.54 ft	51.85 ft	263.70	0.08/100 ft
4600.00 ft	0.91	345.70	100.00 ft	4599.19 ft	-4.31 ft	-4.31 ft	-52.02 ft	52.20 ft	265.26	0.20/100 ft
4700.00 ft	0.84	345.63	100.00 ft	4699.17 ft	-2.83 ft	-2.83 ft	-52.40 ft	52.47 ft	266.91	0.06/100 ft
4800.00 ft	1.18	348.75	100.00 ft	4799.16 ft	-1.11 ft	-1.11 ft	-52.78 ft	52.79 ft	268.80	0.34/100 ft
4900.00 ft	1.69	346.66	100.00 ft	4899.13 ft	1.34 ft	1.34 ft	-53.32 ft	53.34 ft	271.44	0.51/100 ft
5000.00 ft	1.89	345.93	100.00 ft	4999.08 ft	4.37 ft	4.37 ft	-54.06 ft	54.24 ft	274.63	0.20/100 ft
5100.00 ft	1.90	347.27	100.00 ft	5099.02 ft	7.59 ft	7.59 ft	-54.83 ft	55.35 ft	277.88	0.05/100 ft
5200.00 ft	1.91	351.74	100.00 ft	5198.97 ft	10.85 ft	10.85 ft	-55.43 ft	56.48 ft	281.08	0.15/100 ft
5300.00 ft	1.60	355.65	100.00 ft	5298.92 ft	13.89 ft	13.89 ft	-55.78 ft	57.48 ft	283.99	0.33/100 ft
5400.00 ft	1.58	357.25	100.00 ft	5398.88 ft	16.66 ft	16.66 ft	-55.95 ft	58.38 ft	286.59	0.05/100 ft

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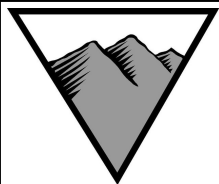
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Date: 2/8/2023
Job Number: 14199-501306061
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
5500.00 ft	1.45	359.01	100.00 ft	5498.85 ft	19.31 ft	19.31 ft	-56.04 ft	59.27 ft	289.01	0.13/100 ft
5600.00 ft	1.47	2.52	100.00 ft	5598.81 ft	21.86 ft	21.86 ft	-56.00 ft	60.12 ft	291.32	0.09/100 ft
5700.00 ft	1.25	13.26	100.00 ft	5698.79 ft	24.20 ft	24.20 ft	-55.70 ft	60.73 ft	293.48	0.33/100 ft
5800.00 ft	1.11	26.69	100.00 ft	5798.77 ft	26.13 ft	26.13 ft	-55.01 ft	60.90 ft	295.41	0.31/100 ft
5900.00 ft	1.15	17.36	100.00 ft	5898.75 ft	27.95 ft	27.95 ft	-54.27 ft	61.05 ft	297.25	0.19/100 ft
6000.00 ft	1.21	6.54	100.00 ft	5998.72 ft	29.96 ft	29.96 ft	-53.85 ft	61.63 ft	299.09	0.23/100 ft
6100.00 ft	1.32	21.48	100.00 ft	6098.70 ft	32.08 ft	32.08 ft	-53.31 ft	62.22 ft	301.04	0.35/100 ft
6200.00 ft	1.43	37.47	100.00 ft	6198.67 ft	34.15 ft	34.15 ft	-52.13 ft	62.32 ft	303.23	0.40/100 ft
6300.00 ft	1.54	7.14	100.00 ft	6298.64 ft	36.47 ft	36.47 ft	-51.20 ft	62.86 ft	305.47	0.78/100 ft
6400.00 ft	1.30	44.28	100.00 ft	6398.61 ft	38.62 ft	38.62 ft	-50.24 ft	63.37 ft	307.55	0.93/100 ft
6500.00 ft	1.28	22.85	100.00 ft	6498.59 ft	40.46 ft	40.46 ft	-49.01 ft	63.56 ft	309.54	0.48/100 ft
6600.00 ft	1.28	2.16	100.00 ft	6598.56 ft	42.60 ft	42.60 ft	-48.54 ft	64.58 ft	311.27	0.46/100 ft
6700.00 ft	1.09	2.10	100.00 ft	6698.54 ft	44.66 ft	44.66 ft	-48.46 ft	65.90 ft	312.66	0.19/100 ft
6800.00 ft	0.83	359.74	100.00 ft	6798.53 ft	46.34 ft	46.34 ft	-48.43 ft	67.03 ft	313.74	0.26/100 ft
6900.00 ft	0.62	339.43	100.00 ft	6898.52 ft	47.57 ft	47.57 ft	-48.62 ft	68.02 ft	314.37	0.33/100 ft
7000.00 ft	0.48	307.56	100.00 ft	6998.51 ft	48.33 ft	48.33 ft	-49.15 ft	68.93 ft	314.52	0.33/100 ft
7100.00 ft	0.44	291.85	100.00 ft	7098.51 ft	48.73 ft	48.73 ft	-49.84 ft	69.70 ft	314.36	0.13/100 ft
7200.00 ft	0.49	267.84	100.00 ft	7198.51 ft	48.86 ft	48.86 ft	-50.62 ft	70.35 ft	313.99	0.20/100 ft
7300.00 ft	0.46	265.22	100.00 ft	7298.50 ft	48.81 ft	48.81 ft	-51.44 ft	70.91 ft	313.50	0.03/100 ft
7400.00 ft	0.50	51.76	100.00 ft	7398.50 ft	49.05 ft	49.05 ft	-51.49 ft	71.12 ft	313.61	0.92/100 ft
7500.00 ft	1.77	80.63	100.00 ft	7498.48 ft	49.57 ft	49.57 ft	-49.63 ft	70.14 ft	314.97	1.35/100 ft

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7600.00 ft	1.82	43.57	100.00 ft	7598.44 ft	50.97 ft	50.97 ft	-47.01 ft	69.34 ft	317.31	1.14/100 ft
7700.00 ft	1.59	324.67	100.00 ft	7698.40 ft	53.25 ft	53.25 ft	-46.72 ft	70.84 ft	318.73	2.17/100 ft

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