

SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: Ertl 1
State/County: CO/Boulder
API#: 0501306026

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

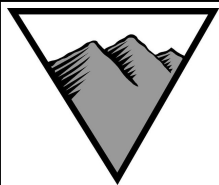
Date: 2/9/2023
Job Number: 14200-501306026
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

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	0.59	58.30	100.00 ft	100.00 ft	0.27 ft	0.27 ft	0.44 ft	0.52 ft	58.30	0.59/100 ft
200.00 ft	0.41	67.48	100.00 ft	199.99 ft	0.68 ft	0.68 ft	1.21 ft	1.39 ft	60.66	0.20/100 ft
300.00 ft	0.21	27.72	100.00 ft	299.99 ft	0.98 ft	0.98 ft	1.63 ft	1.90 ft	58.96	0.28/100 ft
400.00 ft	0.29	2.94	100.00 ft	399.99 ft	1.40 ft	1.40 ft	1.73 ft	2.22 ft	51.04	0.14/100 ft
500.00 ft	0.22	348.64	100.00 ft	499.99 ft	1.84 ft	1.84 ft	1.70 ft	2.51 ft	42.83	0.10/100 ft
600.00 ft	0.20	84.42	100.00 ft	599.99 ft	2.04 ft	2.04 ft	1.84 ft	2.75 ft	41.99	0.31/100 ft
700.00 ft	0.27	92.68	100.00 ft	699.99 ft	2.05 ft	2.05 ft	2.24 ft	3.04 ft	47.64	0.08/100 ft
800.00 ft	0.46	95.43	100.00 ft	799.99 ft	2.00 ft	2.00 ft	2.88 ft	3.51 ft	55.30	0.19/100 ft
900.00 ft	0.62	92.92	100.00 ft	899.98 ft	1.93 ft	1.93 ft	3.82 ft	4.28 ft	63.20	0.15/100 ft
1000.00 ft	0.65	96.17	100.00 ft	999.98 ft	1.84 ft	1.84 ft	4.92 ft	5.26 ft	69.48	0.05/100 ft
1100.00 ft	0.65	100.94	100.00 ft	1099.97 ft	1.67 ft	1.67 ft	6.04 ft	6.27 ft	74.50	0.05/100 ft
1200.00 ft	0.65	97.12	100.00 ft	1199.96 ft	1.50 ft	1.50 ft	7.16 ft	7.31 ft	78.18	0.04/100 ft

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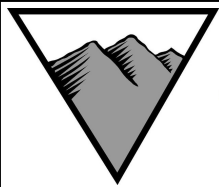
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Date: 2/9/2023
Job Number: 14200-501306026
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
1300.00 ft	0.51	92.52	100.00 ft	1299.96 ft	1.41 ft	1.41 ft	8.17 ft	8.29 ft	80.22	0.14/100 ft
1400.00 ft	0.28	68.23	100.00 ft	1399.96 ft	1.48 ft	1.48 ft	8.84 ft	8.96 ft	80.51	0.29/100 ft
1500.00 ft	0.18	20.67	100.00 ft	1499.96 ft	1.71 ft	1.71 ft	9.12 ft	9.28 ft	79.36	0.20/100 ft
1600.00 ft	0.17	353.93	100.00 ft	1599.96 ft	2.01 ft	2.01 ft	9.16 ft	9.38 ft	77.64	0.08/100 ft
1700.00 ft	0.14	354.30	100.00 ft	1699.96 ft	2.28 ft	2.28 ft	9.13 ft	9.41 ft	75.98	0.03/100 ft
1800.00 ft	0.17	10.31	100.00 ft	1799.95 ft	2.56 ft	2.56 ft	9.14 ft	9.50 ft	74.39	0.05/100 ft
1900.00 ft	0.19	16.54	100.00 ft	1899.95 ft	2.86 ft	2.86 ft	9.22 ft	9.65 ft	72.75	0.02/100 ft
2000.00 ft	0.26	30.90	100.00 ft	1999.95 ft	3.21 ft	3.21 ft	9.38 ft	9.92 ft	71.08	0.09/100 ft
2100.00 ft	0.36	36.48	100.00 ft	2099.95 ft	3.66 ft	3.66 ft	9.68 ft	10.35 ft	69.30	0.10/100 ft
2200.00 ft	0.42	56.64	100.00 ft	2199.95 ft	4.11 ft	4.11 ft	10.18 ft	10.98 ft	67.99	0.15/100 ft
2300.00 ft	0.56	57.07	100.00 ft	2299.95 ft	4.58 ft	4.58 ft	10.90 ft	11.82 ft	67.19	0.14/100 ft
2400.00 ft	0.45	49.24	100.00 ft	2399.94 ft	5.11 ft	5.11 ft	11.61 ft	12.68 ft	66.25	0.13/100 ft
2500.00 ft	0.53	59.54	100.00 ft	2499.94 ft	5.60 ft	5.60 ft	12.30 ft	13.51 ft	65.54	0.11/100 ft
2600.00 ft	0.67	31.70	100.00 ft	2599.93 ft	6.32 ft	6.32 ft	13.00 ft	14.46 ft	64.06	0.32/100 ft
2700.00 ft	0.86	39.03	100.00 ft	2699.92 ft	7.40 ft	7.40 ft	13.78 ft	15.64 ft	61.76	0.21/100 ft
2800.00 ft	0.85	32.31	100.00 ft	2799.91 ft	8.61 ft	8.61 ft	14.64 ft	16.98 ft	59.56	0.10/100 ft
2900.00 ft	0.93	36.33	100.00 ft	2899.90 ft	9.88 ft	9.88 ft	15.52 ft	18.40 ft	57.51	0.11/100 ft
3000.00 ft	0.90	41.35	100.00 ft	2999.89 ft	11.13 ft	11.13 ft	16.52 ft	19.92 ft	56.04	0.09/100 ft
3100.00 ft	0.84	44.58	100.00 ft	3099.88 ft	12.23 ft	12.23 ft	17.55 ft	21.39 ft	55.12	0.08/100 ft
3200.00 ft	0.89	49.23	100.00 ft	3199.87 ft	13.26 ft	13.26 ft	18.64 ft	22.87 ft	54.58	0.09/100 ft
3300.00 ft	1.00	60.50	100.00 ft	3299.85 ft	14.19 ft	14.19 ft	19.98 ft	24.51 ft	54.63	0.22/100 ft

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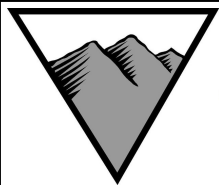
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Date: 2/9/2023
Job Number: 14200-501306026
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
3400.00 ft	1.16	71.62	100.00 ft	3399.84 ft	14.94 ft	14.94 ft	21.70 ft	26.34 ft	55.46	0.26/100 ft
3500.00 ft	1.24	84.98	100.00 ft	3499.81 ft	15.35 ft	15.35 ft	23.74 ft	28.27 ft	57.12	0.29/100 ft
3600.00 ft	1.23	86.73	100.00 ft	3599.79 ft	15.51 ft	15.51 ft	25.89 ft	30.18 ft	59.09	0.04/100 ft
3700.00 ft	1.24	85.27	100.00 ft	3699.77 ft	15.66 ft	15.66 ft	28.04 ft	32.12 ft	60.83	0.03/100 ft
3800.00 ft	1.22	86.83	100.00 ft	3799.74 ft	15.80 ft	15.80 ft	30.19 ft	34.08 ft	62.37	0.04/100 ft
3900.00 ft	1.14	90.60	100.00 ft	3899.72 ft	15.85 ft	15.85 ft	32.25 ft	35.93 ft	63.82	0.12/100 ft
4000.00 ft	0.89	100.97	100.00 ft	3999.71 ft	15.69 ft	15.69 ft	34.01 ft	37.45 ft	65.23	0.31/100 ft
4100.00 ft	0.77	108.44	100.00 ft	4099.70 ft	15.33 ft	15.33 ft	35.41 ft	38.59 ft	66.58	0.16/100 ft
4200.00 ft	0.64	108.62	100.00 ft	4199.69 ft	14.94 ft	14.94 ft	36.58 ft	39.51 ft	67.78	0.13/100 ft
4300.00 ft	0.57	112.06	100.00 ft	4299.68 ft	14.58 ft	14.58 ft	37.57 ft	40.30 ft	68.80	0.08/100 ft
4400.00 ft	0.73	115.44	100.00 ft	4399.68 ft	14.12 ft	14.12 ft	38.61 ft	41.11 ft	69.92	0.16/100 ft
4500.00 ft	0.70	106.29	100.00 ft	4499.67 ft	13.67 ft	13.67 ft	39.77 ft	42.05 ft	71.03	0.12/100 ft
4600.00 ft	0.62	122.17	100.00 ft	4599.66 ft	13.21 ft	13.21 ft	40.81 ft	42.90 ft	72.06	0.20/100 ft
4700.00 ft	0.74	117.78	100.00 ft	4699.66 ft	12.62 ft	12.62 ft	41.84 ft	43.70 ft	73.22	0.13/100 ft
4800.00 ft	0.62	119.57	100.00 ft	4799.65 ft	12.05 ft	12.05 ft	42.88 ft	44.54 ft	74.30	0.13/100 ft
4900.00 ft	0.64	130.42	100.00 ft	4899.64 ft	11.43 ft	11.43 ft	43.78 ft	45.24 ft	75.37	0.12/100 ft
5000.00 ft	0.70	122.34	100.00 ft	4999.64 ft	10.73 ft	10.73 ft	44.72 ft	45.99 ft	76.50	0.11/100 ft
5100.00 ft	0.65	131.53	100.00 ft	5099.63 ft	10.03 ft	10.03 ft	45.66 ft	46.75 ft	77.61	0.12/100 ft
5200.00 ft	0.68	128.69	100.00 ft	5199.62 ft	9.28 ft	9.28 ft	46.55 ft	47.47 ft	78.72	0.04/100 ft
5300.00 ft	0.46	119.72	100.00 ft	5299.62 ft	8.71 ft	8.71 ft	47.36 ft	48.16 ft	79.58	0.24/100 ft
5400.00 ft	0.57	121.97	100.00 ft	5399.61 ft	8.25 ft	8.25 ft	48.13 ft	48.83 ft	80.27	0.12/100 ft

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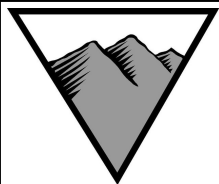
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Survey Type: Memory
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Date: 2/9/2023
Job Number: 14200-501306026
Survey Engineer: Shon Lane
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
5500.00 ft	0.51	95.55	100.00 ft	5499.61 ft	7.94 ft	7.94 ft	49.00 ft	49.64 ft	80.79	0.25/100 ft
5600.00 ft	0.47	109.86	100.00 ft	5599.60 ft	7.76 ft	7.76 ft	49.83 ft	50.43 ft	81.15	0.13/100 ft
5700.00 ft	0.53	80.52	100.00 ft	5699.60 ft	7.70 ft	7.70 ft	50.67 ft	51.25 ft	81.36	0.26/100 ft
5800.00 ft	0.53	84.84	100.00 ft	5799.60 ft	7.82 ft	7.82 ft	51.59 ft	52.18 ft	81.38	0.04/100 ft
5900.00 ft	0.65	69.62	100.00 ft	5899.59 ft	8.06 ft	8.06 ft	52.58 ft	53.20 ft	81.29	0.19/100 ft
6000.00 ft	0.50	63.97	100.00 ft	5999.59 ft	8.45 ft	8.45 ft	53.51 ft	54.17 ft	81.03	0.16/100 ft
6100.00 ft	0.73	67.76	100.00 ft	6099.58 ft	8.88 ft	8.88 ft	54.49 ft	55.21 ft	80.74	0.23/100 ft
6200.00 ft	0.57	61.72	100.00 ft	6199.57 ft	9.35 ft	9.35 ft	55.51 ft	56.29 ft	80.44	0.18/100 ft
6300.00 ft	0.76	70.72	100.00 ft	6299.57 ft	9.81 ft	9.81 ft	56.57 ft	57.42 ft	80.17	0.22/100 ft
6400.00 ft	0.76	50.88	100.00 ft	6399.56 ft	10.44 ft	10.44 ft	57.71 ft	58.65 ft	79.74	0.26/100 ft
6500.00 ft	0.86	48.45	100.00 ft	6499.55 ft	11.36 ft	11.36 ft	58.79 ft	59.87 ft	79.06	0.11/100 ft
6600.00 ft	0.92	30.72	100.00 ft	6599.54 ft	12.54 ft	12.54 ft	59.76 ft	61.06 ft	78.14	0.28/100 ft
6700.00 ft	0.94	9.38	100.00 ft	6699.52 ft	14.04 ft	14.04 ft	60.30 ft	61.91 ft	76.89	0.35/100 ft
6800.00 ft	1.12	16.79	100.00 ft	6799.51 ft	15.80 ft	15.80 ft	60.72 ft	62.74 ft	75.42	0.22/100 ft
6900.00 ft	1.27	6.95	100.00 ft	6899.49 ft	17.83 ft	17.83 ft	61.13 ft	63.68 ft	73.74	0.25/100 ft
7000.00 ft	0.47	344.82	100.00 ft	6999.47 ft	19.32 ft	19.32 ft	61.16 ft	64.14 ft	72.47	0.85/100 ft
7100.00 ft	0.99	200.80	100.00 ft	7099.47 ft	18.91 ft	18.91 ft	60.75 ft	63.62 ft	72.71	1.40/100 ft
7200.00 ft	1.42	197.69	100.00 ft	7199.45 ft	16.92 ft	16.92 ft	60.06 ft	62.40 ft	74.27	0.43/100 ft
7300.00 ft	1.40	183.68	100.00 ft	7299.42 ft	14.52 ft	14.52 ft	59.61 ft	61.35 ft	76.31	0.34/100 ft
7400.00 ft	1.98	195.60	100.00 ft	7399.37 ft	11.64 ft	11.64 ft	59.06 ft	60.20 ft	78.85	0.68/100 ft
7500.00 ft	1.56	188.10	100.00 ft	7499.33 ft	8.62 ft	8.62 ft	58.41 ft	59.04 ft	81.60	0.48/100 ft

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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
7600.00 ft	1.55	177.27	100.00 ft	7599.29 ft	5.92 ft	5.92 ft	58.28 ft	58.58 ft	84.20	0.29/100 ft
7700.00 ft	1.27	174.67	100.00 ft	7699.26 ft	3.46 ft	3.46 ft	58.45 ft	58.55 ft	86.61	0.29/100 ft

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