

**SUMMIT**  
OILFIELD SERVICES, INC

Company: Civitas  
Lease/Well: UPRR AMOCO 1-23-63-1  
State/County: CO/Weld  
API#: 05-123-15959

Survey Type: Memory  
North Reference: Ture North  
Rig Name: N/A  
RKB: N/A

Date: 7/24/2023  
Job Number: 13202-512315959  
Survey Engineer: Mark Loar  
Instrument Number: GP1-1025

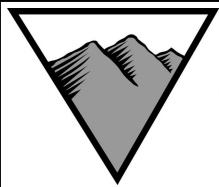
## Summit Oilfield Services

UPRR AMOCO 1-23-63-1 Tbg Survey

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

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	0.19	86.02	100.00 ft	100.00 ft	0.01 ft	0.01 ft	0.17 ft	0.17 ft	86.02	0.19/100 ft
200.00 ft	0.21	356.20	100.00 ft	200.00 ft	0.20 ft	0.20 ft	0.32 ft	0.38 ft	57.84	0.28/100 ft
300.00 ft	0.19	358.13	100.00 ft	300.00 ft	0.55 ft	0.55 ft	0.31 ft	0.63 ft	29.09	0.02/100 ft
400.00 ft	0.23	9.82	100.00 ft	400.00 ft	0.91 ft	0.91 ft	0.33 ft	0.97 ft	20.14	0.06/100 ft
500.00 ft	0.17	20.15	100.00 ft	500.00 ft	1.25 ft	1.25 ft	0.42 ft	1.32 ft	18.60	0.07/100 ft
600.00 ft	0.23	10.41	100.00 ft	600.00 ft	1.58 ft	1.58 ft	0.51 ft	1.66 ft	17.76	0.07/100 ft
700.00 ft	0.23	356.04	100.00 ft	700.00 ft	1.98 ft	1.98 ft	0.53 ft	2.05 ft	15.00	0.06/100 ft
800.00 ft	0.27	11.74	100.00 ft	800.00 ft	2.40 ft	2.40 ft	0.56 ft	2.47 ft	13.21	0.08/100 ft
900.00 ft	0.29	358.24	100.00 ft	899.99 ft	2.88 ft	2.88 ft	0.60 ft	2.94 ft	11.82	0.07/100 ft
1000.00 ft	0.26	333.84	100.00 ft	999.99 ft	3.34 ft	3.34 ft	0.50 ft	3.37 ft	8.47	0.12/100 ft
1100.00 ft	0.25	321.30	100.00 ft	1099.99 ft	3.71 ft	3.71 ft	0.26 ft	3.71 ft	4.05	0.06/100 ft
1200.00 ft	0.30	307.19	100.00 ft	1199.99 ft	4.03 ft	4.03 ft	-0.08 ft	4.03 ft	358.86	0.08/100 ft

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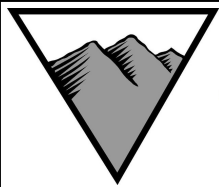
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Survey Type: Memory  
North Reference: Ture North  
Rig Name: N/A  
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Date: 7/24/2023  
Job Number: 13202-512315959  
Survey Engineer: Mark Loar  
Instrument Number: GP1-1025

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
1300.00 ft	0.34	300.08	100.00 ft	1299.99 ft	4.34 ft	4.34 ft	-0.54 ft	4.37 ft	352.85	0.06/100 ft
1400.00 ft	0.35	301.19	100.00 ft	1399.99 ft	4.64 ft	4.64 ft	-1.06 ft	4.76 ft	347.13	0.01/100 ft
1500.00 ft	0.42	293.01	100.00 ft	1499.99 ft	4.95 ft	4.95 ft	-1.66 ft	5.22 ft	341.43	0.09/100 ft
1600.00 ft	0.48	300.59	100.00 ft	1599.98 ft	5.30 ft	5.30 ft	-2.36 ft	5.80 ft	336.00	0.08/100 ft
1700.00 ft	0.49	296.22	100.00 ft	1699.98 ft	5.70 ft	5.70 ft	-3.10 ft	6.49 ft	331.46	0.04/100 ft
1800.00 ft	0.50	305.51	100.00 ft	1799.97 ft	6.14 ft	6.14 ft	-3.83 ft	7.24 ft	328.02	0.08/100 ft
1900.00 ft	0.44	308.67	100.00 ft	1899.97 ft	6.63 ft	6.63 ft	-4.49 ft	8.01 ft	325.93	0.06/100 ft
2000.00 ft	0.39	311.27	100.00 ft	1999.97 ft	7.10 ft	7.10 ft	-5.04 ft	8.70 ft	324.61	0.05/100 ft
2100.00 ft	0.30	311.90	100.00 ft	2099.97 ft	7.49 ft	7.49 ft	-5.49 ft	9.29 ft	323.78	0.09/100 ft
2200.00 ft	0.27	313.36	100.00 ft	2199.97 ft	7.82 ft	7.82 ft	-5.85 ft	9.77 ft	323.22	0.03/100 ft
2300.00 ft	0.56	269.79	100.00 ft	2299.96 ft	7.98 ft	7.98 ft	-6.51 ft	10.30 ft	320.80	0.41/100 ft
2400.00 ft	0.53	265.48	100.00 ft	2399.96 ft	7.94 ft	7.94 ft	-7.46 ft	10.90 ft	316.80	0.06/100 ft
2500.00 ft	0.46	254.08	100.00 ft	2499.96 ft	7.80 ft	7.80 ft	-8.30 ft	11.39 ft	313.20	0.12/100 ft
2600.00 ft	0.31	242.54	100.00 ft	2599.95 ft	7.56 ft	7.56 ft	-8.93 ft	11.70 ft	310.25	0.17/100 ft
2700.00 ft	0.24	235.90	100.00 ft	2699.95 ft	7.32 ft	7.32 ft	-9.34 ft	11.87 ft	308.07	0.08/100 ft
2800.00 ft	0.17	257.35	100.00 ft	2799.95 ft	7.17 ft	7.17 ft	-9.66 ft	12.03 ft	306.59	0.10/100 ft
2900.00 ft	0.20	274.74	100.00 ft	2899.95 ft	7.15 ft	7.15 ft	-9.98 ft	12.28 ft	305.63	0.06/100 ft
3000.00 ft	0.21	245.30	100.00 ft	2999.95 ft	7.09 ft	7.09 ft	-10.33 ft	12.53 ft	304.48	0.11/100 ft
3100.00 ft	0.20	249.22	100.00 ft	3099.95 ft	6.95 ft	6.95 ft	-10.66 ft	12.72 ft	303.12	0.02/100 ft
3200.00 ft	0.31	238.03	100.00 ft	3199.95 ft	6.75 ft	6.75 ft	-11.05 ft	12.95 ft	301.39	0.12/100 ft
3300.00 ft	0.34	227.49	100.00 ft	3299.95 ft	6.40 ft	6.40 ft	-11.50 ft	13.16 ft	299.08	0.07/100 ft

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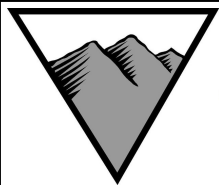
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Survey Type: Memory  
North Reference: Ture North  
Rig Name: N/A  
RKB: N/A

Date: 7/24/2023  
Job Number: 13202-512315959  
Survey Engineer: Mark Loar  
Instrument Number: GP1-1025

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
3400.00 ft	0.51	211.15	100.00 ft	3399.94 ft	5.82 ft	5.82 ft	-11.95 ft	13.29 ft	295.95	0.20/100 ft
3500.00 ft	0.67	216.07	100.00 ft	3499.94 ft	4.97 ft	4.97 ft	-12.53 ft	13.48 ft	291.62	0.17/100 ft
3600.00 ft	0.73	214.79	100.00 ft	3599.93 ft	3.97 ft	3.97 ft	-13.24 ft	13.82 ft	286.69	0.07/100 ft
3700.00 ft	0.69	206.38	100.00 ft	3699.92 ft	2.90 ft	2.90 ft	-13.87 ft	14.17 ft	281.82	0.11/100 ft
3800.00 ft	0.63	194.11	100.00 ft	3799.92 ft	1.83 ft	1.83 ft	-14.27 ft	14.39 ft	277.30	0.15/100 ft
3900.00 ft	0.67	187.19	100.00 ft	3899.91 ft	0.72 ft	0.72 ft	-14.48 ft	14.50 ft	272.84	0.09/100 ft
4000.00 ft	0.60	178.42	100.00 ft	3999.90 ft	-0.39 ft	-0.39 ft	-14.54 ft	14.54 ft	268.48	0.12/100 ft
4100.00 ft	0.64	177.78	100.00 ft	4099.90 ft	-1.47 ft	-1.47 ft	-14.50 ft	14.58 ft	264.22	0.04/100 ft
4200.00 ft	0.62	182.80	100.00 ft	4199.89 ft	-2.56 ft	-2.56 ft	-14.51 ft	14.73 ft	259.97	0.06/100 ft
4300.00 ft	0.47	189.67	100.00 ft	4299.89 ft	-3.51 ft	-3.51 ft	-14.60 ft	15.02 ft	256.49	0.17/100 ft
4400.00 ft	0.55	187.48	100.00 ft	4399.88 ft	-4.39 ft	-4.39 ft	-14.73 ft	15.37 ft	253.42	0.08/100 ft
4500.00 ft	0.48	188.19	100.00 ft	4499.88 ft	-5.28 ft	-5.28 ft	-14.85 ft	15.76 ft	250.45	0.07/100 ft
4600.00 ft	0.48	187.63	100.00 ft	4599.88 ft	-6.11 ft	-6.11 ft	-14.97 ft	16.17 ft	247.81	0.01/100 ft
4700.00 ft	0.49	193.36	100.00 ft	4699.87 ft	-6.94 ft	-6.94 ft	-15.12 ft	16.64 ft	245.35	0.05/100 ft
4800.00 ft	0.54	196.66	100.00 ft	4799.87 ft	-7.80 ft	-7.80 ft	-15.36 ft	17.23 ft	243.06	0.06/100 ft
4900.00 ft	0.54	200.40	100.00 ft	4899.86 ft	-8.69 ft	-8.69 ft	-15.66 ft	17.91 ft	240.95	0.04/100 ft
5000.00 ft	0.55	215.21	100.00 ft	4999.86 ft	-9.53 ft	-9.53 ft	-16.10 ft	18.71 ft	239.37	0.14/100 ft
5100.00 ft	0.54	207.16	100.00 ft	5099.86 ft	-10.35 ft	-10.35 ft	-16.59 ft	19.55 ft	238.06	0.08/100 ft
5200.00 ft	0.31	211.48	100.00 ft	5199.85 ft	-11.00 ft	-11.00 ft	-16.95 ft	20.21 ft	237.02	0.23/100 ft
5300.00 ft	0.20	230.51	100.00 ft	5299.85 ft	-11.34 ft	-11.34 ft	-17.23 ft	20.63 ft	236.64	0.14/100 ft
5400.00 ft	0.07	228.95	100.00 ft	5399.85 ft	-11.49 ft	-11.49 ft	-17.41 ft	20.86 ft	236.57	0.13/100 ft

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Date: 7/24/2023  
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Survey Engineer: Mark Loar  
Instrument Number: GP1-1025

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
5500.00 ft	0.20	86.71	100.00 ft	5499.85 ft	-11.52 ft	-11.52 ft	-17.28 ft	20.77 ft	236.31	0.26/100 ft
5600.00 ft	0.20	62.01	100.00 ft	5599.85 ft	-11.43 ft	-11.43 ft	-16.96 ft	20.45 ft	236.01	0.09/100 ft
5700.00 ft	0.33	80.09	100.00 ft	5699.85 ft	-11.30 ft	-11.30 ft	-16.51 ft	20.01 ft	235.62	0.15/100 ft
5800.00 ft	0.31	88.02	100.00 ft	5799.85 ft	-11.24 ft	-11.24 ft	-15.96 ft	19.52 ft	234.85	0.05/100 ft
5900.00 ft	0.38	100.42	100.00 ft	5899.85 ft	-11.29 ft	-11.29 ft	-15.36 ft	19.06 ft	233.68	0.10/100 ft
6000.00 ft	0.38	91.62	100.00 ft	5999.84 ft	-11.36 ft	-11.36 ft	-14.70 ft	18.58 ft	232.31	0.06/100 ft
6100.00 ft	0.78	109.42	100.00 ft	6099.84 ft	-11.59 ft	-11.59 ft	-13.73 ft	17.97 ft	229.83	0.44/100 ft
6200.00 ft	1.36	110.04	100.00 ft	6199.82 ft	-12.23 ft	-12.23 ft	-11.98 ft	17.11 ft	224.41	0.58/100 ft
6300.00 ft	2.25	121.24	100.00 ft	6299.77 ft	-13.65 ft	-13.65 ft	-9.19 ft	16.45 ft	213.94	0.95/100 ft
6400.00 ft	2.92	125.43	100.00 ft	6399.67 ft	-16.14 ft	-16.14 ft	-5.43 ft	17.03 ft	198.60	0.70/100 ft
6500.00 ft	3.31	125.62	100.00 ft	6499.52 ft	-19.30 ft	-19.30 ft	-1.01 ft	19.33 ft	182.98	0.39/100 ft
6600.00 ft	3.86	125.33	100.00 ft	6599.32 ft	-22.93 ft	-22.93 ft	4.09 ft	23.30 ft	169.89	0.55/100 ft
6700.00 ft	4.03	121.37	100.00 ft	6699.09 ft	-26.71 ft	-26.71 ft	9.83 ft	28.46 ft	159.79	0.32/100 ft
6800.00 ft	4.28	124.28	100.00 ft	6798.82 ft	-30.64 ft	-30.64 ft	15.92 ft	34.53 ft	152.55	0.33/100 ft
6900.00 ft	4.44	128.30	100.00 ft	6898.54 ft	-35.14 ft	-35.14 ft	22.04 ft	41.48 ft	147.90	0.34/100 ft
7000.00 ft	4.27	131.63	100.00 ft	6998.25 ft	-40.01 ft	-40.01 ft	27.85 ft	48.75 ft	145.15	0.30/100 ft
7100.00 ft	4.13	133.90	100.00 ft	7097.98 ft	-44.97 ft	-44.97 ft	33.23 ft	55.92 ft	143.54	0.21/100 ft

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