

SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: WILLIAMS 13-18
State/County: CO/WELD
API#: 05-123-24882

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

Date: 4/3/2023
Job Number: 12486-512324882
Survey Engineer: Travis Stoltz
Instrument Number: GP1-1051

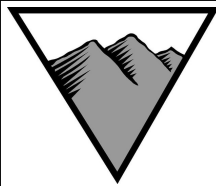
Summit Oilfield Services

WILLIAMS 13-18/Gyro Survey

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

Measured Depth	Inclin	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	0.35	274.97	100.00 ft	100.00 ft	0.03 ft	0.03 ft	-0.30 ft	0.30 ft	274.97	0.35/100 ft
200.00 ft	0.49	265.75	100.00 ft	200.00 ft	0.02 ft	0.02 ft	-1.03 ft	1.03 ft	271.15	0.16/100 ft
300.00 ft	0.48	249.44	100.00 ft	299.99 ft	-0.16 ft	-0.16 ft	-1.84 ft	1.85 ft	265.09	0.14/100 ft
400.00 ft	1.08	262.34	100.00 ft	399.98 ft	-0.43 ft	-0.43 ft	-3.18 ft	3.21 ft	262.25	0.62/100 ft
500.00 ft	1.95	267.77	100.00 ft	499.95 ft	-0.62 ft	-0.62 ft	-5.81 ft	5.85 ft	263.86	0.87/100 ft
600.00 ft	2.97	273.80	100.00 ft	599.85 ft	-0.52 ft	-0.52 ft	-10.10 ft	10.11 ft	267.06	1.05/100 ft
700.00 ft	4.05	278.11	100.00 ft	699.67 ft	0.15 ft	0.15 ft	-16.17 ft	16.17 ft	270.53	1.11/100 ft
800.00 ft	4.87	275.58	100.00 ft	799.36 ft	1.06 ft	1.06 ft	-23.89 ft	23.92 ft	272.54	0.84/100 ft
900.00 ft	4.75	277.91	100.00 ft	899.01 ft	2.04 ft	2.04 ft	-32.21 ft	32.28 ft	273.63	0.23/100 ft
1000.00 ft	4.41	279.27	100.00 ft	998.69 ft	3.23 ft	3.23 ft	-40.10 ft	40.23 ft	274.61	0.36/100 ft
1100.00 ft	3.85	278.65	100.00 ft	1098.43 ft	4.36 ft	4.36 ft	-47.22 ft	47.42 ft	275.27	0.56/100 ft
1200.00 ft	3.30	277.31	100.00 ft	1198.24 ft	5.23 ft	5.23 ft	-53.39 ft	53.65 ft	275.59	0.56/100 ft

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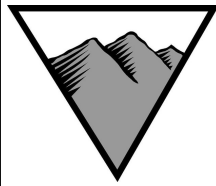
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Survey Engineer: Travis Stoltz
Instrument Number: GP1-1051

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
1300.00 ft	2.69	278.84	100.00 ft	1298.10 ft	5.95 ft	5.95 ft	-58.56 ft	58.87 ft	275.81	0.61/100 ft
1400.00 ft	2.52	281.54	100.00 ft	1398.00 ft	6.76 ft	6.76 ft	-63.04 ft	63.40 ft	276.12	0.21/100 ft
1500.00 ft	2.55	273.91	100.00 ft	1497.90 ft	7.35 ft	7.35 ft	-67.41 ft	67.81 ft	276.22	0.34/100 ft
1600.00 ft	2.51	280.46	100.00 ft	1597.80 ft	7.90 ft	7.90 ft	-71.79 ft	72.22 ft	276.28	0.29/100 ft
1700.00 ft	2.43	285.29	100.00 ft	1697.71 ft	8.85 ft	8.85 ft	-75.99 ft	76.50 ft	276.65	0.22/100 ft
1800.00 ft	2.36	294.25	100.00 ft	1797.62 ft	10.26 ft	10.26 ft	-79.91 ft	80.56 ft	277.31	0.38/100 ft
1900.00 ft	1.98	293.94	100.00 ft	1897.55 ft	11.80 ft	11.80 ft	-83.36 ft	84.19 ft	278.06	0.38/100 ft
2000.00 ft	1.87	292.92	100.00 ft	1997.49 ft	13.14 ft	13.14 ft	-86.44 ft	87.44 ft	278.64	0.12/100 ft
2100.00 ft	1.80	292.29	100.00 ft	2097.44 ft	14.37 ft	14.37 ft	-89.40 ft	90.54 ft	279.13	0.07/100 ft
2200.00 ft	1.83	290.55	100.00 ft	2197.39 ft	15.52 ft	15.52 ft	-92.34 ft	93.64 ft	279.54	0.06/100 ft
2300.00 ft	1.75	287.14	100.00 ft	2297.34 ft	16.53 ft	16.53 ft	-95.29 ft	96.72 ft	279.84	0.13/100 ft
2400.00 ft	1.87	293.91	100.00 ft	2397.29 ft	17.64 ft	17.64 ft	-98.24 ft	99.82 ft	280.18	0.25/100 ft
2500.00 ft	1.77	289.33	100.00 ft	2497.24 ft	18.82 ft	18.82 ft	-101.19 ft	102.92 ft	280.53	0.18/100 ft
2600.00 ft	1.64	285.84	100.00 ft	2597.20 ft	19.72 ft	19.72 ft	-104.02 ft	105.87 ft	280.73	0.16/100 ft
2700.00 ft	1.50	287.93	100.00 ft	2697.16 ft	20.51 ft	20.51 ft	-106.64 ft	108.60 ft	280.89	0.16/100 ft
2800.00 ft	1.51	280.94	100.00 ft	2797.13 ft	21.16 ft	21.16 ft	-109.18 ft	111.21 ft	280.97	0.18/100 ft
2900.00 ft	1.68	288.00	100.00 ft	2897.09 ft	21.87 ft	21.87 ft	-111.87 ft	113.98 ft	281.06	0.26/100 ft
3000.00 ft	1.51	285.36	100.00 ft	2997.05 ft	22.67 ft	22.67 ft	-114.53 ft	116.75 ft	281.19	0.18/100 ft
3100.00 ft	1.78	285.32	100.00 ft	3097.01 ft	23.42 ft	23.42 ft	-117.29 ft	119.61 ft	281.29	0.27/100 ft
3200.00 ft	1.75	287.43	100.00 ft	3196.96 ft	24.29 ft	24.29 ft	-120.24 ft	122.67 ft	281.42	0.07/100 ft
3300.00 ft	2.22	287.54	100.00 ft	3296.90 ft	25.33 ft	25.33 ft	-123.54 ft	126.11 ft	281.59	0.47/100 ft

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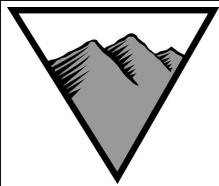
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North Reference: True North
Rig Name: N/A
RKB: N/A

Date: 4/3/2023
Job Number: 12486-512324882
Survey Engineer: Travis Stoltz
Instrument Number: GP1-1051

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
3400.00 ft	2.13	286.54	100.00 ft	3396.83 ft	26.44 ft	26.44 ft	-127.16 ft	129.88 ft	281.75	0.09/100 ft
3500.00 ft	2.30	284.76	100.00 ft	3496.75 ft	27.48 ft	27.48 ft	-130.89 ft	133.74 ft	281.86	0.19/100 ft
3600.00 ft	2.13	283.84	100.00 ft	3596.68 ft	28.44 ft	28.44 ft	-134.64 ft	137.61 ft	281.93	0.18/100 ft
3700.00 ft	2.00	284.90	100.00 ft	3696.61 ft	29.33 ft	29.33 ft	-138.13 ft	141.21 ft	281.99	0.14/100 ft
3800.00 ft	1.84	284.21	100.00 ft	3796.56 ft	30.17 ft	30.17 ft	-141.37 ft	144.55 ft	282.05	0.16/100 ft
3900.00 ft	1.84	287.31	100.00 ft	3896.51 ft	31.04 ft	31.04 ft	-144.45 ft	147.75 ft	282.13	0.10/100 ft
4000.00 ft	1.19	287.77	100.00 ft	3996.47 ft	31.84 ft	31.84 ft	-146.97 ft	150.37 ft	282.22	0.65/100 ft
4100.00 ft	1.13	290.17	100.00 ft	4096.45 ft	32.49 ft	32.49 ft	-148.88 ft	152.39 ft	282.31	0.07/100 ft
4200.00 ft	1.29	284.80	100.00 ft	4196.43 ft	33.12 ft	33.12 ft	-150.90 ft	154.49 ft	282.38	0.20/100 ft
4300.00 ft	1.40	284.85	100.00 ft	4296.40 ft	33.72 ft	33.72 ft	-153.17 ft	156.84 ft	282.42	0.10/100 ft
4400.00 ft	1.39	294.77	100.00 ft	4396.37 ft	34.54 ft	34.54 ft	-155.45 ft	159.24 ft	282.53	0.24/100 ft
4500.00 ft	1.75	291.66	100.00 ft	4496.33 ft	35.61 ft	35.61 ft	-157.97 ft	161.93 ft	282.71	0.36/100 ft
4600.00 ft	1.81	292.43	100.00 ft	4596.29 ft	36.78 ft	36.78 ft	-160.84 ft	164.99 ft	282.88	0.07/100 ft
4700.00 ft	1.83	295.45	100.00 ft	4696.24 ft	38.07 ft	38.07 ft	-163.74 ft	168.11 ft	283.09	0.10/100 ft
4800.00 ft	1.52	295.69	100.00 ft	4796.19 ft	39.33 ft	39.33 ft	-166.38 ft	170.96 ft	283.30	0.32/100 ft
4900.00 ft	1.42	301.83	100.00 ft	4896.16 ft	40.56 ft	40.56 ft	-168.62 ft	173.43 ft	283.52	0.18/100 ft
5000.00 ft	1.41	301.74	100.00 ft	4996.13 ft	41.86 ft	41.86 ft	-170.73 ft	175.78 ft	283.78	0.01/100 ft
5100.00 ft	0.95	299.21	100.00 ft	5096.11 ft	42.91 ft	42.91 ft	-172.50 ft	177.76 ft	283.97	0.47/100 ft
5200.00 ft	0.63	303.82	100.00 ft	5196.10 ft	43.62 ft	43.62 ft	-173.68 ft	179.07 ft	284.10	0.32/100 ft
5300.00 ft	0.64	310.86	100.00 ft	5296.09 ft	44.29 ft	44.29 ft	-174.56 ft	180.09 ft	284.24	0.08/100 ft
5400.00 ft	0.66	318.80	100.00 ft	5396.09 ft	45.09 ft	45.09 ft	-175.36 ft	181.06 ft	284.42	0.09/100 ft

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North Reference: True North
Rig Name: N/A
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Date: 4/3/2023
Job Number: 12486-512324882
Survey Engineer: Travis Stoltz
Instrument Number: GP1-1051

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Closure Distance	Closure Direction	Dogleg Severity
5500.00 ft	0.93	314.54	100.00 ft	5496.08 ft	46.09 ft	46.09 ft	-176.31 ft	182.24 ft	284.65	0.28/100 ft
5600.00 ft	0.70	302.22	100.00 ft	5596.07 ft	46.98 ft	46.98 ft	-177.41 ft	183.52 ft	284.83	0.28/100 ft
5700.00 ft	0.68	294.55	100.00 ft	5696.06 ft	47.56 ft	47.56 ft	-178.46 ft	184.69 ft	284.92	0.10/100 ft
5800.00 ft	0.45	303.38	100.00 ft	5796.05 ft	48.02 ft	48.02 ft	-179.33 ft	185.64 ft	284.99	0.24/100 ft
5900.00 ft	0.32	331.89	100.00 ft	5896.05 ft	48.48 ft	48.48 ft	-179.78 ft	186.20 ft	285.09	0.23/100 ft
6000.00 ft	0.44	2.08	100.00 ft	5996.05 ft	49.11 ft	49.11 ft	-179.90 ft	186.48 ft	285.27	0.23/100 ft
6100.00 ft	0.60	355.61	100.00 ft	6096.05 ft	50.02 ft	50.02 ft	-179.93 ft	186.75 ft	285.54	0.17/100 ft
6200.00 ft	0.68	20.02	100.00 ft	6196.04 ft	51.10 ft	51.10 ft	-179.76 ft	186.88 ft	285.87	0.28/100 ft
6300.00 ft	1.11	20.34	100.00 ft	6296.03 ft	52.56 ft	52.56 ft	-179.22 ft	186.77 ft	286.35	0.43/100 ft
6400.00 ft	1.11	37.13	100.00 ft	6396.01 ft	54.24 ft	54.24 ft	-178.30 ft	186.37 ft	286.92	0.32/100 ft
6500.00 ft	1.53	46.19	100.00 ft	6495.98 ft	55.94 ft	55.94 ft	-176.75 ft	185.39 ft	287.56	0.47/100 ft
6600.00 ft	2.07	42.74	100.00 ft	6595.93 ft	58.19 ft	58.19 ft	-174.57 ft	184.01 ft	288.44	0.55/100 ft
6700.00 ft	2.66	41.88	100.00 ft	6695.85 ft	61.24 ft	61.24 ft	-171.80 ft	182.38 ft	289.62	0.59/100 ft
6800.00 ft	2.25	21.10	100.00 ft	6795.76 ft	64.79 ft	64.79 ft	-169.54 ft	181.50 ft	290.91	0.97/100 ft
6900.00 ft	2.06	21.99	100.00 ft	6895.69 ft	68.28 ft	68.28 ft	-168.17 ft	181.50 ft	292.10	0.19/100 ft
7000.00 ft	2.18	26.07	100.00 ft	6995.62 ft	71.65 ft	71.65 ft	-166.66 ft	181.41 ft	293.26	0.19/100 ft
7100.00 ft	2.47	20.38	100.00 ft	7095.54 ft	75.38 ft	75.38 ft	-165.08 ft	181.47 ft	294.54	0.38/100 ft
7200.00 ft	1.80	8.58	100.00 ft	7195.47 ft	78.96 ft	78.96 ft	-164.09 ft	182.10 ft	295.70	0.80/100 ft
7300.00 ft	0.90	19.49	100.00 ft	7295.44 ft	81.25 ft	81.25 ft	-163.59 ft	182.66 ft	296.41	0.93/100 ft
7400.00 ft	0.44	10.83	100.00 ft	7395.43 ft	82.37 ft	82.37 ft	-163.26 ft	182.86 ft	296.77	0.47/100 ft
7500.00 ft	0.67	35.56	100.00 ft	7495.43 ft	83.22 ft	83.22 ft	-162.85 ft	182.88 ft	297.07	0.33/100 ft

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7600.00 ft	0.69	45.87	100.00 ft	7595.42 ft	84.11 ft	84.11 ft	-162.08 ft	182.60 ft	297.43	0.12/100 ft
7700.00 ft	0.49	359.70	100.00 ft	7695.41 ft	84.96 ft	84.96 ft	-161.65 ft	182.61 ft	297.73	0.50/100 ft
7800.00 ft	0.18	335.05	100.00 ft	7795.41 ft	85.53 ft	85.53 ft	-161.72 ft	182.94 ft	297.87	0.33/100 ft
7900.00 ft	0.13	281.90	100.00 ft	7895.41 ft	85.70 ft	85.70 ft	-161.90 ft	183.18 ft	297.89	0.15/100 ft

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