



**SUMMIT**  
OILFIELD SERVICES, INC

Company: Civitas  
Lease/Well: GARDEN CREEK 32-07M  
County/ State: Weld, CO  
API#: 05-123-34636

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

Date: 12-16-21  
Job Number: 11126-512334636  
Survey Engineer: N. Brehmer  
Instrument Number: GP1-1021

## Summit Oilfield Services

### GARDEN CREEK 32-07M Gyro Survey

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

Measured Depth	Indin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
0.00 ft	0.00	0.00	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00/100 ft	0.00 ft	0.00
100.00 ft	0.20	166.09	100.00 ft	100.00 ft	-0.17 ft	0.04 ft	-0.17 ft	0.20/100 ft	0.17 ft	166.09
200.00 ft	0.14	91.95	100.00 ft	200.00 ft	-0.34 ft	0.20 ft	-0.34 ft	0.21/100 ft	0.40 ft	149.18
300.00 ft	0.18	27.04	100.00 ft	300.00 ft	-0.20 ft	0.40 ft	-0.20 ft	0.18/100 ft	0.45 ft	117.28
400.00 ft	0.21	245.56	100.00 ft	400.00 ft	-0.14 ft	0.30 ft	-0.14 ft	0.38/100 ft	0.33 ft	115.20
500.00 ft	0.13	2.02	100.00 ft	500.00 ft	-0.11 ft	0.13 ft	-0.11 ft	0.29/100 ft	0.17 ft	129.49
600.00 ft	0.22	16.49	100.00 ft	600.00 ft	0.18 ft	0.19 ft	0.18 ft	0.10/100 ft	0.26 ft	46.02
700.00 ft	0.39	58.77	100.00 ft	700.00 ft	0.54 ft	0.53 ft	0.54 ft	0.27/100 ft	0.76 ft	44.55
800.00 ft	0.25	127.68	100.00 ft	800.00 ft	0.58 ft	0.99 ft	0.58 ft	0.38/100 ft	1.15 ft	59.53
900.00 ft	0.31	204.12	100.00 ft	899.99 ft	0.20 ft	1.05 ft	0.20 ft	0.35/100 ft	1.07 ft	79.13
1000.00 ft	0.39	233.85	100.00 ft	999.99 ft	-0.25 ft	0.67 ft	-0.25 ft	0.20/100 ft	0.71 ft	110.50
1100.00 ft	0.51	254.42	100.00 ft	1099.99 ft	-0.57 ft	-0.04 ft	-0.57 ft	0.20/100 ft	0.57 ft	183.59
1200.00 ft	0.41	265.42	100.00 ft	1199.99 ft	-0.72 ft	-0.82 ft	-0.72 ft	0.13/100 ft	1.09 ft	228.72

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

Date: 12-16-21  
Job Number: 11126-512334636  
Survey Engineer: N. Brehmer  
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
1300.00 ft	0.38	268.04	100.00 ft	1299.98 ft	-0.76 ft	-1.50 ft	-0.76 ft	0.03/100 ft	1.68 ft	243.27
1400.00 ft	0.33	286.63	100.00 ft	1399.98 ft	-0.68 ft	-2.11 ft	-0.68 ft	0.12/100 ft	2.22 ft	252.03
1500.00 ft	0.28	297.39	100.00 ft	1499.98 ft	-0.49 ft	-2.60 ft	-0.49 ft	0.08/100 ft	2.65 ft	259.32
1600.00 ft	0.43	261.95	100.00 ft	1599.98 ft	-0.43 ft	-3.18 ft	-0.43 ft	0.26/100 ft	3.21 ft	262.28
1700.00 ft	0.41	242.85	100.00 ft	1699.98 ft	-0.65 ft	-3.87 ft	-0.65 ft	0.14/100 ft	3.92 ft	260.51
1800.00 ft	0.23	265.95	100.00 ft	1799.98 ft	-0.82 ft	-4.39 ft	-0.82 ft	0.22/100 ft	4.47 ft	259.37
1900.00 ft	0.19	311.63	100.00 ft	1899.97 ft	-0.73 ft	-4.71 ft	-0.73 ft	0.17/100 ft	4.77 ft	261.18
2000.00 ft	0.22	306.70	100.00 ft	1999.97 ft	-0.51 ft	-4.99 ft	-0.51 ft	0.04/100 ft	5.02 ft	264.21
2100.00 ft	0.09	273.47	100.00 ft	2099.97 ft	-0.38 ft	-5.23 ft	-0.38 ft	0.16/100 ft	5.24 ft	265.80
2200.00 ft	0.17	50.51	100.00 ft	2199.97 ft	-0.28 ft	-5.19 ft	-0.28 ft	0.25/100 ft	5.20 ft	266.88
2300.00 ft	0.34	46.11	100.00 ft	2299.97 ft	0.02 ft	-4.87 ft	0.02 ft	0.17/100 ft	4.87 ft	270.19
2400.00 ft	0.36	57.87	100.00 ft	2399.97 ft	0.39 ft	-4.39 ft	0.39 ft	0.08/100 ft	4.40 ft	275.06
2500.00 ft	0.23	88.27	100.00 ft	2499.97 ft	0.56 ft	-3.92 ft	0.56 ft	0.20/100 ft	3.96 ft	278.17
2600.00 ft	0.16	177.16	100.00 ft	2599.97 ft	0.43 ft	-3.71 ft	0.43 ft	0.28/100 ft	3.74 ft	276.63
2700.00 ft	0.03	325.35	100.00 ft	2699.97 ft	0.32 ft	-3.72 ft	0.32 ft	0.19/100 ft	3.73 ft	274.91
2800.00 ft	0.36	124.27	100.00 ft	2799.97 ft	0.17 ft	-3.48 ft	0.17 ft	0.40/100 ft	3.48 ft	272.73
2900.00 ft	0.14	229.53	100.00 ft	2899.97 ft	-0.09 ft	-3.30 ft	-0.09 ft	0.42/100 ft	3.30 ft	268.45
3000.00 ft	0.07	159.27	100.00 ft	2999.97 ft	-0.22 ft	-3.37 ft	-0.22 ft	0.13/100 ft	3.38 ft	266.26
3100.00 ft	0.34	315.12	100.00 ft	3099.97 ft	-0.06 ft	-3.56 ft	-0.06 ft	0.40/100 ft	3.56 ft	268.99
3200.00 ft	0.85	274.77	100.00 ft	3199.96 ft	0.21 ft	-4.51 ft	0.21 ft	0.63/100 ft	4.52 ft	272.68
3300.00 ft	0.86	272.31	100.00 ft	3299.95 ft	0.30 ft	-6.00 ft	0.30 ft	0.04/100 ft	6.00 ft	272.89

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API#: 05-123-34636

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

Date: 12-16-21  
Job Number: 11126-512334636  
Survey Engineer: N. Brehmer  
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
3400.00 ft	0.92	271.58	100.00 ft	3399.94 ft	0.35 ft	-7.55 ft	0.35 ft	0.07/100 ft	7.55 ft	272.69
3500.00 ft	0.83	269.31	100.00 ft	3499.93 ft	0.37 ft	-9.07 ft	0.37 ft	0.10/100 ft	9.08 ft	272.33
3600.00 ft	0.57	263.83	100.00 ft	3599.92 ft	0.31 ft	-10.29 ft	0.31 ft	0.26/100 ft	10.29 ft	271.70
3700.00 ft	1.07	263.74	100.00 ft	3699.91 ft	0.15 ft	-11.72 ft	0.15 ft	0.50/100 ft	11.72 ft	270.73
3800.00 ft	0.89	248.84	100.00 ft	3799.89 ft	-0.23 ft	-13.37 ft	-0.23 ft	0.31/100 ft	13.37 ft	269.01
3900.00 ft	0.90	249.55	100.00 ft	3899.88 ft	-0.79 ft	-14.83 ft	-0.79 ft	0.02/100 ft	14.85 ft	266.97
4000.00 ft	0.59	252.26	100.00 ft	3999.87 ft	-1.22 ft	-16.06 ft	-1.22 ft	0.31/100 ft	16.10 ft	265.66
4100.00 ft	0.40	351.33	100.00 ft	4099.87 ft	-1.03 ft	-16.60 ft	-1.03 ft	0.77/100 ft	16.64 ft	266.46
4200.00 ft	0.73	339.60	100.00 ft	4199.87 ft	-0.08 ft	-16.88 ft	-0.08 ft	0.35/100 ft	16.88 ft	269.73
4300.00 ft	0.44	172.08	100.00 ft	4299.86 ft	0.14 ft	-17.05 ft	0.14 ft	1.16/100 ft	17.05 ft	270.47
4400.00 ft	0.47	179.23	100.00 ft	4399.86 ft	-0.65 ft	-16.99 ft	-0.65 ft	0.06/100 ft	17.00 ft	267.81
4500.00 ft	0.22	241.17	100.00 ft	4499.86 ft	-1.15 ft	-17.16 ft	-1.15 ft	0.41/100 ft	17.20 ft	266.16
4600.00 ft	0.34	156.99	100.00 ft	4599.86 ft	-1.52 ft	-17.21 ft	-1.52 ft	0.39/100 ft	17.28 ft	264.96
4700.00 ft	0.34	72.34	100.00 ft	4699.86 ft	-1.70 ft	-16.81 ft	-1.70 ft	0.46/100 ft	16.89 ft	264.22
4800.00 ft	0.85	68.34	100.00 ft	4799.85 ft	-1.34 ft	-15.83 ft	-1.34 ft	0.51/100 ft	15.89 ft	265.17
4900.00 ft	0.83	73.84	100.00 ft	4899.84 ft	-0.86 ft	-14.44 ft	-0.86 ft	0.08/100 ft	14.47 ft	266.59
5000.00 ft	0.75	76.34	100.00 ft	4999.83 ft	-0.50 ft	-13.11 ft	-0.50 ft	0.08/100 ft	13.12 ft	267.79
5100.00 ft	0.65	87.07	100.00 ft	5099.82 ft	-0.32 ft	-11.91 ft	-0.32 ft	0.17/100 ft	11.91 ft	268.46
5200.00 ft	0.27	95.85	100.00 ft	5199.82 ft	-0.32 ft	-11.11 ft	-0.32 ft	0.39/100 ft	11.12 ft	268.37
5300.00 ft	0.20	159.98	100.00 ft	5299.82 ft	-0.50 ft	-10.82 ft	-0.50 ft	0.25/100 ft	10.84 ft	267.36
5400.00 ft	0.54	146.53	100.00 ft	5399.82 ft	-1.05 ft	-10.51 ft	-1.05 ft	0.35/100 ft	10.56 ft	264.30

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Date: 12-16-21  
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Survey Engineer: N. Brehmer  
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
5500.00 ft	0.14	84.10	100.00 ft	5499.82 ft	-1.43 ft	-10.13 ft	-1.43 ft	0.49/100 ft	10.22 ft	261.98
5600.00 ft	0.07	204.78	100.00 ft	5599.82 ft	-1.47 ft	-10.03 ft	-1.47 ft	0.19/100 ft	10.13 ft	261.66
5700.00 ft	0.24	257.28	100.00 ft	5699.81 ft	-1.57 ft	-10.26 ft	-1.57 ft	0.21/100 ft	10.38 ft	261.28
5800.00 ft	0.44	229.34	100.00 ft	5799.81 ft	-1.87 ft	-10.76 ft	-1.87 ft	0.26/100 ft	10.92 ft	260.13
5900.00 ft	0.41	208.96	100.00 ft	5899.81 ft	-2.43 ft	-11.22 ft	-2.43 ft	0.16/100 ft	11.48 ft	257.76
6000.00 ft	0.44	211.27	100.00 ft	5999.81 ft	-3.07 ft	-11.59 ft	-3.07 ft	0.04/100 ft	11.99 ft	255.15
6100.00 ft	0.49	204.43	100.00 ft	6099.80 ft	-3.79 ft	-11.97 ft	-3.79 ft	0.07/100 ft	12.56 ft	252.42
6200.00 ft	0.37	217.26	100.00 ft	6199.80 ft	-4.44 ft	-12.34 ft	-4.44 ft	0.16/100 ft	13.12 ft	250.22
6300.00 ft	0.33	212.88	100.00 ft	6299.80 ft	-4.93 ft	-12.69 ft	-4.93 ft	0.05/100 ft	13.61 ft	248.76
6400.00 ft	0.03	345.68	100.00 ft	6399.80 ft	-5.15 ft	-12.85 ft	-5.15 ft	0.35/100 ft	13.84 ft	248.17
6500.00 ft	0.34	314.66	100.00 ft	6499.80 ft	-4.92 ft	-13.06 ft	-4.92 ft	0.31/100 ft	13.96 ft	249.38
6600.00 ft	0.38	261.47	100.00 ft	6599.80 ft	-4.76 ft	-13.60 ft	-4.76 ft	0.33/100 ft	14.41 ft	250.71
6700.00 ft	0.26	270.14	100.00 ft	6699.80 ft	-4.81 ft	-14.16 ft	-4.81 ft	0.14/100 ft	14.95 ft	251.24
6800.00 ft	0.28	291.06	100.00 ft	6799.79 ft	-4.72 ft	-14.61 ft	-4.72 ft	0.10/100 ft	15.35 ft	252.09
6900.00 ft	0.11	316.51	100.00 ft	6899.79 ft	-4.57 ft	-14.90 ft	-4.57 ft	0.19/100 ft	15.58 ft	252.96
7000.00 ft	0.20	90.55	100.00 ft	6999.79 ft	-4.50 ft	-14.79 ft	-4.50 ft	0.28/100 ft	15.46 ft	253.07
7100.00 ft	0.49	65.51	100.00 ft	7099.79 ft	-4.33 ft	-14.23 ft	-4.33 ft	0.32/100 ft	14.88 ft	253.09
7200.00 ft	0.48	84.04	100.00 ft	7199.79 ft	-4.11 ft	-13.43 ft	-4.11 ft	0.16/100 ft	14.04 ft	253.00
7300.00 ft	0.24	82.72	100.00 ft	7299.79 ft	-4.04 ft	-12.81 ft	-4.04 ft	0.24/100 ft	13.43 ft	252.51
7400.00 ft	0.13	98.66	100.00 ft	7399.79 ft	-4.03 ft	-12.49 ft	-4.03 ft	0.11/100 ft	13.12 ft	252.12
7500.00 ft	0.65	64.80	100.00 ft	7499.78 ft	-3.80 ft	-11.86 ft	-3.80 ft	0.55/100 ft	12.46 ft	252.21

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Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
7600.00 ft	0.88	68.99	100.00 ft	7599.77 ft	-3.29 ft	-10.63 ft	-3.29 ft	0.24/100 ft	11.12 ft	252.82
7700.00 ft	0.65	58.27	100.00 ft	7699.76 ft	-2.71 ft	-9.42 ft	-2.71 ft	0.27/100 ft	9.81 ft	253.95
7800.00 ft	0.58	94.09	100.00 ft	7799.76 ft	-2.45 ft	-8.43 ft	-2.45 ft	0.38/100 ft	8.78 ft	253.81
7900.00 ft	0.31	132.04	100.00 ft	7899.76 ft	-2.67 ft	-7.72 ft	-2.67 ft	0.39/100 ft	8.17 ft	250.95
8000.00 ft	0.15	164.02	100.00 ft	7999.76 ft	-2.98 ft	-7.49 ft	-2.98 ft	0.20/100 ft	8.06 ft	248.32

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