



SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: CRITTER CREEK 14-18H
County/ State: Weld, CO
API#: 05-123-32868

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

Date: 12-27-21
Job Number: 11206-512332868
Survey Engineer: N. Brehmer
Instrument Number: GP1-1021

Summit Oilfield Services

CRITTER CREEK 14-18H 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	0.09	111.77	100.00 ft	100.00 ft	-0.03 ft	0.07 ft	-0.03 ft	0.09/100 ft	0.08 ft	111.77
200.00 ft	0.08	116.64	100.00 ft	200.00 ft	-0.09 ft	0.21 ft	-0.09 ft	0.01/100 ft	0.23 ft	113.31
300.00 ft	0.24	172.99	100.00 ft	300.00 ft	-0.33 ft	0.31 ft	-0.33 ft	0.20/100 ft	0.45 ft	137.30
400.00 ft	0.38	122.61	100.00 ft	400.00 ft	-0.72 ft	0.61 ft	-0.72 ft	0.29/100 ft	0.94 ft	139.62
500.00 ft	0.42	110.59	100.00 ft	500.00 ft	-1.02 ft	1.22 ft	-1.02 ft	0.09/100 ft	1.59 ft	129.79
600.00 ft	0.36	61.06	100.00 ft	599.99 ft	-1.00 ft	1.84 ft	-1.00 ft	0.33/100 ft	2.09 ft	118.45
700.00 ft	0.38	109.15	100.00 ft	699.99 ft	-0.95 ft	2.42 ft	-0.95 ft	0.30/100 ft	2.61 ft	111.46
800.00 ft	0.45	105.38	100.00 ft	799.99 ft	-1.17 ft	3.11 ft	-1.17 ft	0.07/100 ft	3.33 ft	110.51
900.00 ft	0.58	71.90	100.00 ft	899.99 ft	-1.11 ft	3.97 ft	-1.11 ft	0.32/100 ft	4.12 ft	105.64
1000.00 ft	0.51	88.79	100.00 ft	999.98 ft	-0.95 ft	4.89 ft	-0.95 ft	0.17/100 ft	4.98 ft	100.94
1100.00 ft	0.43	58.47	100.00 ft	1099.98 ft	-0.74 ft	5.65 ft	-0.74 ft	0.26/100 ft	5.70 ft	97.48
1200.00 ft	0.36	85.83	100.00 ft	1199.98 ft	-0.52 ft	6.28 ft	-0.52 ft	0.20/100 ft	6.30 ft	94.77

Icefield Tools Inc. makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document. Icefield Tools Inc. are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.



SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: CRITTER CREEK 14-18H
County/ State: Weld, CO
API#: 05-123-32868

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

Date: 12-27-21
Job Number: 11206-512332868
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	0.26	64.31	100.00 ft	1299.97 ft	-0.40 ft	6.79 ft	-0.40 ft	0.15/100 ft	6.80 ft	93.41
1400.00 ft	0.18	337.74	100.00 ft	1399.97 ft	-0.16 ft	6.93 ft	-0.16 ft	0.30/100 ft	6.94 ft	91.35
1500.00 ft	0.28	345.83	100.00 ft	1499.97 ft	0.22 ft	6.81 ft	0.22 ft	0.11/100 ft	6.82 ft	88.16
1600.00 ft	0.51	343.74	100.00 ft	1599.97 ft	0.89 ft	6.63 ft	0.89 ft	0.23/100 ft	6.69 ft	82.38
1700.00 ft	0.53	345.27	100.00 ft	1699.97 ft	1.77 ft	6.39 ft	1.77 ft	0.02/100 ft	6.63 ft	74.55
1800.00 ft	0.69	2.71	100.00 ft	1799.96 ft	2.82 ft	6.30 ft	2.82 ft	0.24/100 ft	6.90 ft	65.91
1900.00 ft	0.64	329.17	100.00 ft	1899.95 ft	3.90 ft	6.04 ft	3.90 ft	0.39/100 ft	7.19 ft	57.16
2000.00 ft	0.36	351.77	100.00 ft	1999.95 ft	4.69 ft	5.70 ft	4.69 ft	0.34/100 ft	7.39 ft	50.56
2100.00 ft	0.62	317.60	100.00 ft	2099.95 ft	5.41 ft	5.29 ft	5.41 ft	0.38/100 ft	7.57 ft	44.38
2200.00 ft	0.51	315.17	100.00 ft	2199.94 ft	6.13 ft	4.61 ft	6.13 ft	0.11/100 ft	7.67 ft	36.95
2300.00 ft	0.56	331.57	100.00 ft	2299.94 ft	6.88 ft	4.06 ft	6.88 ft	0.16/100 ft	7.98 ft	30.57
2400.00 ft	0.16	329.85	100.00 ft	2399.94 ft	7.42 ft	3.76 ft	7.42 ft	0.40/100 ft	8.32 ft	26.85
2500.00 ft	0.49	337.39	100.00 ft	2499.93 ft	7.94 ft	3.52 ft	7.94 ft	0.34/100 ft	8.69 ft	23.93
2600.00 ft	0.20	285.64	100.00 ft	2599.93 ft	8.39 ft	3.19 ft	8.39 ft	0.40/100 ft	8.97 ft	20.80
2700.00 ft	0.20	76.39	100.00 ft	2699.93 ft	8.48 ft	3.18 ft	8.48 ft	0.39/100 ft	9.05 ft	20.58
2800.00 ft	0.35	43.20	100.00 ft	2799.93 ft	8.74 ft	3.56 ft	8.74 ft	0.22/100 ft	9.44 ft	22.17
2900.00 ft	0.18	45.27	100.00 ft	2899.93 ft	9.08 ft	3.88 ft	9.08 ft	0.17/100 ft	9.87 ft	23.16
3000.00 ft	0.28	0.97	100.00 ft	2999.93 ft	9.43 ft	4.00 ft	9.43 ft	0.19/100 ft	10.24 ft	22.98
3100.00 ft	0.29	28.21	100.00 ft	3099.93 ft	9.89 ft	4.12 ft	9.89 ft	0.13/100 ft	10.71 ft	22.62
3200.00 ft	0.25	56.58	100.00 ft	3199.93 ft	10.23 ft	4.42 ft	10.23 ft	0.14/100 ft	11.14 ft	23.36
3300.00 ft	0.23	109.81	100.00 ft	3299.93 ft	10.28 ft	4.79 ft	10.28 ft	0.21/100 ft	11.34 ft	24.97

Icefield Tools Inc. makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document. Icefield Tools Inc. are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.



SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: CRITTER CREEK 14-18H
County/ State: Weld, CO
API#: 05-123-32868

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

Date: 12-27-21
Job Number: 11206-512332868
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	0.27	185.41	100.00 ft	3399.92 ft	9.98 ft	4.95 ft	9.98 ft	0.31/100 ft	11.14 ft	26.41
3500.00 ft	0.25	233.48	100.00 ft	3499.92 ft	9.61 ft	4.76 ft	9.61 ft	0.21/100 ft	10.73 ft	26.34
3600.00 ft	0.34	260.29	100.00 ft	3599.92 ft	9.44 ft	4.30 ft	9.44 ft	0.16/100 ft	10.37 ft	24.48
3700.00 ft	0.23	226.42	100.00 ft	3699.92 ft	9.25 ft	3.86 ft	9.25 ft	0.19/100 ft	10.02 ft	22.66
3800.00 ft	0.48	216.96	100.00 ft	3799.92 ft	8.77 ft	3.46 ft	8.77 ft	0.26/100 ft	9.43 ft	21.54
3900.00 ft	0.59	238.07	100.00 ft	3899.92 ft	8.17 ft	2.77 ft	8.17 ft	0.22/100 ft	8.62 ft	18.77
4000.00 ft	0.35	269.85	100.00 ft	3999.91 ft	7.89 ft	2.03 ft	7.89 ft	0.34/100 ft	8.15 ft	14.45
4100.00 ft	0.19	123.24	100.00 ft	4099.91 ft	7.80 ft	1.86 ft	7.80 ft	0.52/100 ft	8.02 ft	13.44
4200.00 ft	0.36	139.52	100.00 ft	4199.91 ft	7.48 ft	2.20 ft	7.48 ft	0.18/100 ft	7.80 ft	16.42
4300.00 ft	0.45	83.02	100.00 ft	4299.91 ft	7.29 ft	2.79 ft	7.29 ft	0.39/100 ft	7.80 ft	20.96
4400.00 ft	0.89	64.56	100.00 ft	4399.90 ft	7.67 ft	3.88 ft	7.67 ft	0.49/100 ft	8.60 ft	26.84
4500.00 ft	1.05	76.70	100.00 ft	4499.89 ft	8.21 ft	5.47 ft	8.21 ft	0.26/100 ft	9.87 ft	33.68
4600.00 ft	1.02	82.79	100.00 ft	4599.87 ft	8.54 ft	7.24 ft	8.54 ft	0.11/100 ft	11.19 ft	40.32
4700.00 ft	1.34	100.98	100.00 ft	4699.85 ft	8.42 ft	9.28 ft	8.42 ft	0.49/100 ft	12.53 ft	47.75
4800.00 ft	1.48	96.64	100.00 ft	4799.82 ft	8.05 ft	11.71 ft	8.05 ft	0.17/100 ft	14.21 ft	55.49
4900.00 ft	1.48	97.18	100.00 ft	4899.79 ft	7.74 ft	14.27 ft	7.74 ft	0.01/100 ft	16.24 ft	61.53
5000.00 ft	0.42	30.64	100.00 ft	4999.77 ft	7.89 ft	15.74 ft	7.89 ft	1.37/100 ft	17.61 ft	63.36
5100.00 ft	0.44	7.34	100.00 ft	5099.77 ft	8.59 ft	15.98 ft	8.59 ft	0.17/100 ft	18.14 ft	61.74
5200.00 ft	0.49	328.49	100.00 ft	5199.77 ft	9.33 ft	15.80 ft	9.33 ft	0.31/100 ft	18.35 ft	59.45
5300.00 ft	0.40	297.55	100.00 ft	5299.76 ft	9.85 ft	15.27 ft	9.85 ft	0.25/100 ft	18.17 ft	57.19
5400.00 ft	0.17	335.23	100.00 ft	5399.76 ft	10.14 ft	14.91 ft	10.14 ft	0.28/100 ft	18.03 ft	55.77

Icefield Tools Inc. makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document. Icefield Tools Inc. are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.



SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: CRITTER CREEK 14-18H
County/ State: Weld, CO
API#: 05-123-32868

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

Date: 12-27-21
Job Number: 11206-512332868
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	0.34	334.34	100.00 ft	5499.76 ft	10.54 ft	14.72 ft	10.54 ft	0.17/100 ft	18.10 ft	54.38
5600.00 ft	0.32	263.42	100.00 ft	5599.76 ft	10.78 ft	14.31 ft	10.78 ft	0.39/100 ft	17.91 ft	53.00
5700.00 ft	0.28	191.57	100.00 ft	5699.76 ft	10.51 ft	13.98 ft	10.51 ft	0.35/100 ft	17.49 ft	53.06
5800.00 ft	0.15	96.19	100.00 ft	5799.76 ft	10.26 ft	14.06 ft	10.26 ft	0.33/100 ft	17.41 ft	53.89
5900.00 ft	0.13	356.13	100.00 ft	5899.76 ft	10.36 ft	14.19 ft	10.36 ft	0.22/100 ft	17.57 ft	53.87
6000.00 ft	0.21	185.94	100.00 ft	5999.76 ft	10.30 ft	14.16 ft	10.30 ft	0.34/100 ft	17.51 ft	53.99
6100.00 ft	0.46	118.21	100.00 ft	6099.76 ft	9.93 ft	14.50 ft	9.93 ft	0.42/100 ft	17.57 ft	55.60
6200.00 ft	0.34	115.35	100.00 ft	6199.76 ft	9.61 ft	15.12 ft	9.61 ft	0.11/100 ft	17.91 ft	57.56
6300.00 ft	0.59	146.55	100.00 ft	6299.75 ft	9.05 ft	15.67 ft	9.05 ft	0.34/100 ft	18.10 ft	59.98
6400.00 ft	0.79	124.92	100.00 ft	6399.74 ft	8.23 ft	16.52 ft	8.23 ft	0.33/100 ft	18.46 ft	63.52
6500.00 ft	0.66	115.33	100.00 ft	6499.74 ft	7.59 ft	17.61 ft	7.59 ft	0.18/100 ft	19.17 ft	66.68
6600.00 ft	0.56	134.32	100.00 ft	6599.73 ft	7.00 ft	18.48 ft	7.00 ft	0.22/100 ft	19.76 ft	69.25
6700.00 ft	0.80	142.65	100.00 ft	6699.72 ft	6.11 ft	19.25 ft	6.11 ft	0.25/100 ft	20.19 ft	72.40
6800.00 ft	0.81	118.90	100.00 ft	6799.71 ft	5.22 ft	20.29 ft	5.22 ft	0.33/100 ft	20.95 ft	75.58
6850.00 ft	0.83	140.83	50.00 ft	6849.71 ft	4.77 ft	20.82 ft	4.77 ft	0.62/100 ft	21.36 ft	77.11

Icefield Tools Inc. makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document. Icefield Tools Inc. are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.