

**SUMMIT**  
OILFIELD SERVICES, INC

Company: Civitas  
Lease/Well: Northrup 2-14  
County/State: Weld/CO  
API#: 05-123-21877

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

Date: 06/07/2024  
Job Number: 15730-512321877  
Survey Engineer: Mark Loar  
Instrument Number: GP1-1051

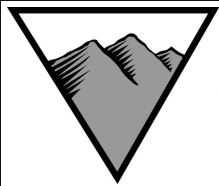
## Summit Oilfield Services

Northrup 2-14

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

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	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	0.69	190.76	100.00 ft	100.00 ft	-0.59 ft	-0.59 ft	-0.11 ft	0.69/100 ft	0.60 ft	190.76
200.00 ft	0.53	201.44	100.00 ft	199.99 ft	-1.61 ft	-1.61 ft	-0.39 ft	0.19/100 ft	1.66 ft	193.73
300.00 ft	0.82	210.54	100.00 ft	299.98 ft	-2.66 ft	-2.66 ft	-0.93 ft	0.31/100 ft	2.82 ft	199.24
400.00 ft	0.81	210.08	100.00 ft	399.97 ft	-3.89 ft	-3.89 ft	-1.65 ft	0.02/100 ft	4.22 ft	202.95
500.00 ft	0.66	224.11	100.00 ft	499.97 ft	-4.91 ft	-4.91 ft	-2.40 ft	0.23/100 ft	5.47 ft	206.04
600.00 ft	0.48	209.88	100.00 ft	599.96 ft	-5.69 ft	-5.69 ft	-3.01 ft	0.23/100 ft	6.43 ft	207.88
700.00 ft	0.48	204.74	100.00 ft	699.96 ft	-6.42 ft	-6.42 ft	-3.39 ft	0.04/100 ft	7.26 ft	207.82
800.00 ft	0.47	232.09	100.00 ft	799.95 ft	-7.05 ft	-7.05 ft	-3.89 ft	0.22/100 ft	8.05 ft	208.86
900.00 ft	0.62	235.06	100.00 ft	899.95 ft	-7.62 ft	-7.62 ft	-4.66 ft	0.15/100 ft	8.93 ft	211.44
1000.00 ft	0.67	205.93	100.00 ft	999.94 ft	-8.45 ft	-8.45 ft	-5.36 ft	0.33/100 ft	10.01 ft	212.36
1100.00 ft	0.69	226.47	100.00 ft	1099.94 ft	-9.40 ft	-9.40 ft	-6.05 ft	0.24/100 ft	11.18 ft	212.78
1200.00 ft	0.67	233.34	100.00 ft	1199.93 ft	-10.16 ft	-10.16 ft	-6.96 ft	0.09/100 ft	12.32 ft	214.40

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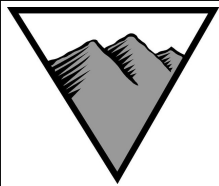
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North Reference: True North  
Rig Name: N/A  
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Date: 06/07/2024  
Job Number: 15730-512321877  
Survey Engineer: Mark Loar  
Instrument Number: GP1-1051

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction
1300.00 ft	0.41	229.22	100.00 ft	1299.93 ft	-10.75 ft	-10.75 ft	-7.70 ft	0.26/100 ft	13.22 ft	215.61
1400.00 ft	0.58	203.72	100.00 ft	1399.92 ft	-11.45 ft	-11.45 ft	-8.18 ft	0.27/100 ft	14.07 ft	215.54
1500.00 ft	0.69	201.02	100.00 ft	1499.92 ft	-12.48 ft	-12.48 ft	-8.60 ft	0.12/100 ft	15.15 ft	214.57
1600.00 ft	0.78	195.31	100.00 ft	1599.91 ft	-13.70 ft	-13.70 ft	-8.99 ft	0.11/100 ft	16.39 ft	213.29
1700.00 ft	0.75	202.70	100.00 ft	1699.90 ft	-14.95 ft	-14.95 ft	-9.42 ft	0.10/100 ft	17.67 ft	212.22
1800.00 ft	0.74	189.12	100.00 ft	1799.89 ft	-16.19 ft	-16.19 ft	-9.78 ft	0.18/100 ft	18.91 ft	211.13
1900.00 ft	0.66	191.28	100.00 ft	1899.88 ft	-17.39 ft	-17.39 ft	-9.99 ft	0.08/100 ft	20.06 ft	209.88
2000.00 ft	0.62	224.58	100.00 ft	1999.88 ft	-18.35 ft	-18.35 ft	-10.49 ft	0.37/100 ft	21.13 ft	209.75
2100.00 ft	0.64	223.30	100.00 ft	2099.87 ft	-19.14 ft	-19.14 ft	-11.25 ft	0.02/100 ft	22.20 ft	210.45
2200.00 ft	0.67	212.72	100.00 ft	2199.86 ft	-20.04 ft	-20.04 ft	-11.95 ft	0.13/100 ft	23.34 ft	210.81
2300.00 ft	0.57	200.20	100.00 ft	2299.86 ft	-21.01 ft	-21.01 ft	-12.44 ft	0.17/100 ft	24.42 ft	210.64
2400.00 ft	0.28	211.25	100.00 ft	2399.86 ft	-21.68 ft	-21.68 ft	-12.74 ft	0.31/100 ft	25.15 ft	210.44
2500.00 ft	0.25	204.97	100.00 ft	2499.85 ft	-22.09 ft	-22.09 ft	-12.96 ft	0.04/100 ft	25.61 ft	210.40
2600.00 ft	0.39	210.60	100.00 ft	2599.85 ft	-22.58 ft	-22.58 ft	-13.22 ft	0.14/100 ft	26.17 ft	210.36
2700.00 ft	0.58	185.50	100.00 ft	2699.85 ft	-23.37 ft	-23.37 ft	-13.45 ft	0.28/100 ft	26.96 ft	209.91
2800.00 ft	0.38	155.03	100.00 ft	2799.85 ft	-24.17 ft	-24.17 ft	-13.35 ft	0.32/100 ft	27.62 ft	208.92
2900.00 ft	0.53	160.59	100.00 ft	2899.84 ft	-24.90 ft	-24.90 ft	-13.06 ft	0.15/100 ft	28.12 ft	207.68
3000.00 ft	0.34	179.13	100.00 ft	2999.84 ft	-25.64 ft	-25.64 ft	-12.91 ft	0.23/100 ft	28.70 ft	206.72
3100.00 ft	0.66	183.19	100.00 ft	3099.84 ft	-26.51 ft	-26.51 ft	-12.93 ft	0.32/100 ft	29.50 ft	206.00
3200.00 ft	0.46	178.69	100.00 ft	3199.83 ft	-27.49 ft	-27.49 ft	-12.96 ft	0.21/100 ft	30.39 ft	205.24
3300.00 ft	0.76	193.50	100.00 ft	3299.83 ft	-28.53 ft	-28.53 ft	-13.10 ft	0.33/100 ft	31.40 ft	204.66

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County/State: Weld/CO  
API#: 05-123-21877

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

Date: 06/07/2024  
Job Number: 15730-512321877  
Survey Engineer: Mark Loar  
Instrument Number: GP1-1051

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction
3400.00 ft	0.63	182.71	100.00 ft	3399.82 ft	-29.72 ft	-29.72 ft	-13.28 ft	0.18/100 ft	32.56 ft	204.08
3500.00 ft	1.44	193.78	100.00 ft	3499.80 ft	-31.49 ft	-31.49 ft	-13.61 ft	0.84/100 ft	34.31 ft	203.37
3600.00 ft	1.33	196.59	100.00 ft	3599.77 ft	-33.83 ft	-33.83 ft	-14.24 ft	0.13/100 ft	36.71 ft	202.83
3700.00 ft	1.38	185.75	100.00 ft	3699.74 ft	-36.15 ft	-36.15 ft	-14.69 ft	0.26/100 ft	39.02 ft	202.12
3800.00 ft	1.25	194.20	100.00 ft	3799.72 ft	-38.40 ft	-38.40 ft	-15.08 ft	0.23/100 ft	41.25 ft	201.44
3900.00 ft	0.94	200.11	100.00 ft	3899.70 ft	-40.22 ft	-40.22 ft	-15.63 ft	0.33/100 ft	43.15 ft	201.23
4000.00 ft	1.10	183.57	100.00 ft	3999.68 ft	-41.95 ft	-41.95 ft	-15.97 ft	0.33/100 ft	44.89 ft	200.84
4100.00 ft	1.81	181.23	100.00 ft	4099.65 ft	-44.49 ft	-44.49 ft	-16.07 ft	0.71/100 ft	47.30 ft	199.86
4200.00 ft	2.45	193.17	100.00 ft	4199.58 ft	-48.15 ft	-48.15 ft	-16.59 ft	0.78/100 ft	50.92 ft	199.01
4300.00 ft	2.31	193.69	100.00 ft	4299.50 ft	-52.19 ft	-52.19 ft	-17.55 ft	0.14/100 ft	55.06 ft	198.59
4400.00 ft	2.04	194.14	100.00 ft	4399.42 ft	-55.88 ft	-55.88 ft	-18.46 ft	0.27/100 ft	58.85 ft	198.29
4500.00 ft	1.79	193.29	100.00 ft	4499.37 ft	-59.13 ft	-59.13 ft	-19.26 ft	0.26/100 ft	62.19 ft	198.04
4600.00 ft	1.49	185.81	100.00 ft	4599.33 ft	-61.94 ft	-61.94 ft	-19.75 ft	0.37/100 ft	65.01 ft	197.68
4700.00 ft	1.27	181.58	100.00 ft	4699.30 ft	-64.35 ft	-64.35 ft	-19.91 ft	0.24/100 ft	67.36 ft	197.20
4800.00 ft	1.03	181.48	100.00 ft	4799.28 ft	-66.35 ft	-66.35 ft	-19.97 ft	0.25/100 ft	69.29 ft	196.75
4900.00 ft	0.76	176.09	100.00 ft	4899.26 ft	-67.91 ft	-67.91 ft	-19.94 ft	0.28/100 ft	70.78 ft	196.37
5000.00 ft	0.65	162.98	100.00 ft	4999.26 ft	-69.11 ft	-69.11 ft	-19.73 ft	0.19/100 ft	71.87 ft	195.94
5100.00 ft	0.37	141.09	100.00 ft	5099.25 ft	-69.90 ft	-69.90 ft	-19.36 ft	0.34/100 ft	72.54 ft	195.48
5200.00 ft	0.42	101.37	100.00 ft	5199.25 ft	-70.23 ft	-70.23 ft	-18.81 ft	0.27/100 ft	72.70 ft	194.99
5300.00 ft	0.71	81.87	100.00 ft	5299.25 ft	-70.21 ft	-70.21 ft	-17.83 ft	0.35/100 ft	72.44 ft	194.25
5400.00 ft	0.82	83.47	100.00 ft	5399.24 ft	-70.04 ft	-70.04 ft	-16.50 ft	0.11/100 ft	71.96 ft	193.26

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

Date: 06/07/2024  
Job Number: 15730-512321877  
Survey Engineer: Mark Loar  
Instrument Number: GP1-1051

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction
5500.00 ft	1.04	93.59	100.00 ft	5499.22 ft	-70.01 ft	-70.01 ft	-14.88 ft	0.27/100 ft	71.58 ft	192.00
5600.00 ft	0.99	85.92	100.00 ft	5599.21 ft	-70.01 ft	-70.01 ft	-13.11 ft	0.14/100 ft	71.23 ft	190.61
5700.00 ft	0.83	79.82	100.00 ft	5699.20 ft	-69.82 ft	-69.82 ft	-11.54 ft	0.19/100 ft	70.77 ft	189.38
5800.00 ft	0.90	87.65	100.00 ft	5799.18 ft	-69.66 ft	-69.66 ft	-10.04 ft	0.14/100 ft	70.38 ft	188.20
5900.00 ft	1.13	76.78	100.00 ft	5899.17 ft	-69.40 ft	-69.40 ft	-8.29 ft	0.30/100 ft	69.90 ft	186.81
6000.00 ft	0.87	76.49	100.00 ft	5999.15 ft	-69.00 ft	-69.00 ft	-6.59 ft	0.26/100 ft	69.31 ft	185.45

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