



SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: KUNER 6-4-25
County/ State: Weld, CO
API#: 05-123-30809

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

Date: 3-17-22
Job Number: 11386-512330809
Survey Engineer: N. Brehmer
Instrument Number: GP1-1021

Summit Oilfield Services

KUNER 6-4-25 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	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	0.56	185.39	100.00 ft	100.00 ft	-0.48 ft	-0.05 ft	-0.48 ft	0.56/100 ft	0.49 ft	185.39
200.00 ft	0.91	199.00	100.00 ft	199.99 ft	-1.72 ft	-0.35 ft	-1.72 ft	0.39/100 ft	1.76 ft	191.51
300.00 ft	0.96	204.33	100.00 ft	299.98 ft	-3.24 ft	-0.96 ft	-3.24 ft	0.10/100 ft	3.38 ft	196.44
400.00 ft	0.98	205.97	100.00 ft	399.96 ft	-4.77 ft	-1.67 ft	-4.77 ft	0.03/100 ft	5.05 ft	199.34
500.00 ft	1.16	212.55	100.00 ft	499.95 ft	-6.39 ft	-2.59 ft	-6.39 ft	0.22/100 ft	6.89 ft	202.08
600.00 ft	1.77	218.08	100.00 ft	599.91 ft	-8.45 ft	-4.08 ft	-8.45 ft	0.62/100 ft	9.39 ft	205.80
700.00 ft	2.30	225.07	100.00 ft	699.85 ft	-11.08 ft	-6.46 ft	-11.08 ft	0.59/100 ft	12.83 ft	210.23
800.00 ft	2.53	225.98	100.00 ft	799.76 ft	-14.04 ft	-9.47 ft	-14.04 ft	0.23/100 ft	16.93 ft	214.00
900.00 ft	3.15	226.37	100.00 ft	899.64 ft	-17.47 ft	-13.05 ft	-17.47 ft	0.63/100 ft	21.80 ft	216.75
1000.00 ft	4.96	219.84	100.00 ft	999.38 ft	-22.69 ft	-17.81 ft	-22.69 ft	1.86/100 ft	28.84 ft	218.13
1100.00 ft	6.99	216.91	100.00 ft	1098.83 ft	-30.87 ft	-24.23 ft	-30.87 ft	2.05/100 ft	39.24 ft	218.13
1200.00 ft	8.81	220.33	100.00 ft	1197.88 ft	-41.57 ft	-32.84 ft	-41.57 ft	1.88/100 ft	52.98 ft	218.31

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

Date: 3-17-22
Job Number: 11386-512330809
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	11.07	218.00	100.00 ft	1296.37 ft	-54.98 ft	-43.71 ft	-54.98 ft	2.30/100 ft	70.24 ft	218.49
1400.00 ft	12.60	216.46	100.00 ft	1394.25 ft	-71.32 ft	-56.10 ft	-71.32 ft	1.56/100 ft	90.74 ft	218.19
1500.00 ft	13.57	217.51	100.00 ft	1491.65 ft	-89.39 ft	-69.73 ft	-89.39 ft	1.00/100 ft	113.37 ft	217.95
1600.00 ft	16.05	218.43	100.00 ft	1588.32 ft	-109.54 ft	-85.47 ft	-109.54 ft	2.49/100 ft	138.93 ft	217.96
1700.00 ft	18.30	218.58	100.00 ft	1683.85 ft	-132.65 ft	-103.86 ft	-132.65 ft	2.25/100 ft	168.47 ft	218.06
1800.00 ft	19.27	217.81	100.00 ft	1778.52 ft	-157.96 ft	-123.77 ft	-157.96 ft	1.00/100 ft	200.67 ft	218.08
1900.00 ft	21.46	218.99	100.00 ft	1872.27 ft	-185.21 ft	-145.39 ft	-185.21 ft	2.23/100 ft	235.46 ft	218.13
2000.00 ft	22.68	219.33	100.00 ft	1964.94 ft	-214.34 ft	-169.12 ft	-214.34 ft	1.23/100 ft	273.03 ft	218.27
2100.00 ft	21.92	217.98	100.00 ft	2057.46 ft	-243.97 ft	-192.83 ft	-243.97 ft	0.91/100 ft	310.97 ft	218.32
2200.00 ft	22.01	218.58	100.00 ft	2150.20 ft	-273.33 ft	-216.00 ft	-273.33 ft	0.24/100 ft	348.38 ft	218.32
2300.00 ft	23.04	218.02	100.00 ft	2242.57 ft	-303.40 ft	-239.74 ft	-303.40 ft	1.05/100 ft	386.68 ft	218.31
2400.00 ft	23.49	218.09	100.00 ft	2334.44 ft	-334.49 ft	-264.08 ft	-334.49 ft	0.45/100 ft	426.18 ft	218.29
2500.00 ft	23.63	220.40	100.00 ft	2426.11 ft	-365.44 ft	-289.36 ft	-365.44 ft	0.94/100 ft	466.13 ft	218.37
2600.00 ft	23.54	219.92	100.00 ft	2517.76 ft	-396.01 ft	-315.17 ft	-396.01 ft	0.21/100 ft	506.12 ft	218.51
2700.00 ft	24.61	218.89	100.00 ft	2609.06 ft	-427.53 ft	-341.06 ft	-427.53 ft	1.15/100 ft	546.90 ft	218.58
2800.00 ft	23.65	217.81	100.00 ft	2700.32 ft	-459.59 ft	-366.43 ft	-459.59 ft	1.05/100 ft	587.78 ft	218.57
2900.00 ft	23.59	219.19	100.00 ft	2791.94 ft	-490.94 ft	-391.37 ft	-490.94 ft	0.56/100 ft	627.85 ft	218.56
3000.00 ft	23.93	217.21	100.00 ft	2883.47 ft	-522.60 ft	-416.28 ft	-522.60 ft	0.87/100 ft	668.13 ft	218.54
3100.00 ft	20.55	216.88	100.00 ft	2976.02 ft	-552.80 ft	-439.08 ft	-552.80 ft	3.39/100 ft	705.96 ft	218.46
3200.00 ft	19.14	218.00	100.00 ft	3070.08 ft	-579.75 ft	-459.71 ft	-579.75 ft	1.46/100 ft	739.89 ft	218.41
3300.00 ft	19.16	214.72	100.00 ft	3164.55 ft	-606.16 ft	-479.15 ft	-606.16 ft	1.08/100 ft	772.66 ft	218.33

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Date: 3-17-22
Job Number: 11386-512330809
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	19.78	215.48	100.00 ft	3258.83 ft	-633.42 ft	-498.31 ft	-633.42 ft	0.67/100 ft	805.94 ft	218.19
3500.00 ft	21.03	220.65	100.00 ft	3352.56 ft	-660.82 ft	-519.82 ft	-660.82 ft	2.19/100 ft	840.77 ft	218.19
3600.00 ft	23.75	220.10	100.00 ft	3445.02 ft	-689.84 ft	-544.48 ft	-689.84 ft	2.72/100 ft	878.83 ft	218.28
3700.00 ft	24.78	219.50	100.00 ft	3536.18 ft	-721.41 ft	-570.78 ft	-721.41 ft	1.06/100 ft	919.91 ft	218.35
3800.00 ft	25.69	220.58	100.00 ft	3626.64 ft	-754.04 ft	-598.21 ft	-754.04 ft	1.02/100 ft	962.52 ft	218.43
3900.00 ft	25.48	220.86	100.00 ft	3716.83 ft	-786.77 ft	-626.39 ft	-786.77 ft	0.23/100 ft	1005.67 ft	218.52
4000.00 ft	24.33	217.10	100.00 ft	3807.54 ft	-819.48 ft	-652.89 ft	-819.48 ft	1.96/100 ft	1047.76 ft	218.54
4100.00 ft	24.22	217.49	100.00 ft	3898.69 ft	-852.19 ft	-677.80 ft	-852.19 ft	0.19/100 ft	1088.87 ft	218.50
4200.00 ft	23.24	218.73	100.00 ft	3990.24 ft	-883.86 ft	-702.63 ft	-883.86 ft	1.10/100 ft	1129.12 ft	218.48
4300.00 ft	23.32	218.49	100.00 ft	4082.09 ft	-914.75 ft	-727.29 ft	-914.75 ft	0.12/100 ft	1168.64 ft	218.49
4400.00 ft	23.32	217.30	100.00 ft	4173.92 ft	-945.98 ft	-751.61 ft	-945.98 ft	0.47/100 ft	1208.22 ft	218.47
4500.00 ft	24.06	220.01	100.00 ft	4265.50 ft	-977.35 ft	-776.71 ft	-977.35 ft	1.32/100 ft	1248.39 ft	218.47
4600.00 ft	21.84	220.00	100.00 ft	4357.57 ft	-1007.22 ft	-801.78 ft	-1007.22 ft	2.22/100 ft	1287.38 ft	218.52
4700.00 ft	21.03	218.44	100.00 ft	4450.66 ft	-1035.52 ft	-824.89 ft	-1035.52 ft	0.99/100 ft	1323.92 ft	218.54
4800.00 ft	21.98	213.35	100.00 ft	4543.70 ft	-1065.21 ft	-846.34 ft	-1065.21 ft	2.10/100 ft	1360.50 ft	218.47
4900.00 ft	19.99	214.40	100.00 ft	4637.06 ft	-1094.95 ft	-866.29 ft	-1094.95 ft	2.03/100 ft	1396.20 ft	218.35
5000.00 ft	18.23	217.96	100.00 ft	4731.55 ft	-1121.39 ft	-885.57 ft	-1121.39 ft	2.11/100 ft	1428.90 ft	218.30
5100.00 ft	17.77	218.54	100.00 ft	4826.66 ft	-1145.66 ft	-904.70 ft	-1145.66 ft	0.49/100 ft	1459.80 ft	218.30
5200.00 ft	14.70	219.25	100.00 ft	4922.66 ft	-1167.43 ft	-922.24 ft	-1167.43 ft	3.07/100 ft	1487.76 ft	218.31
5300.00 ft	11.78	220.13	100.00 ft	5019.99 ft	-1185.07 ft	-936.86 ft	-1185.07 ft	2.93/100 ft	1510.66 ft	218.33
5400.00 ft	10.42	217.35	100.00 ft	5118.12 ft	-1200.06 ft	-948.92 ft	-1200.06 ft	1.47/100 ft	1529.90 ft	218.33

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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	10.29	219.59	100.00 ft	5216.49 ft	-1214.14 ft	-960.10 ft	-1214.14 ft	0.42/100 ft	1547.88 ft	218.34
5600.00 ft	8.76	221.10	100.00 ft	5315.10 ft	-1226.76 ft	-970.80 ft	-1226.76 ft	1.55/100 ft	1564.42 ft	218.36
5700.00 ft	7.51	220.60	100.00 ft	5414.10 ft	-1237.47 ft	-980.07 ft	-1237.47 ft	1.26/100 ft	1578.56 ft	218.38
5800.00 ft	5.79	219.64	100.00 ft	5513.42 ft	-1246.31 ft	-987.54 ft	-1246.31 ft	1.72/100 ft	1590.13 ft	218.39
5900.00 ft	4.30	219.52	100.00 ft	5613.03 ft	-1253.09 ft	-993.14 ft	-1253.09 ft	1.49/100 ft	1598.92 ft	218.40
6000.00 ft	3.11	224.83	100.00 ft	5712.82 ft	-1257.90 ft	-997.43 ft	-1257.90 ft	1.24/100 ft	1605.36 ft	218.41
6100.00 ft	1.29	240.56	100.00 ft	5812.74 ft	-1260.38 ft	-1000.33 ft	-1260.38 ft	1.89/100 ft	1609.10 ft	218.44
6200.00 ft	0.99	261.91	100.00 ft	5912.72 ft	-1261.05 ft	-1002.17 ft	-1261.05 ft	0.52/100 ft	1610.77 ft	218.47
6300.00 ft	1.25	281.92	100.00 ft	6012.70 ft	-1260.95 ft	-1004.09 ft	-1260.95 ft	0.46/100 ft	1611.89 ft	218.53
6400.00 ft	1.53	272.97	100.00 ft	6112.67 ft	-1260.65 ft	-1006.50 ft	-1260.65 ft	0.36/100 ft	1613.16 ft	218.60
6500.00 ft	0.47	278.12	100.00 ft	6212.66 ft	-1260.53 ft	-1008.24 ft	-1260.53 ft	1.07/100 ft	1614.15 ft	218.65
6600.00 ft	0.57	213.65	100.00 ft	6312.65 ft	-1260.89 ft	-1008.92 ft	-1260.89 ft	0.56/100 ft	1614.86 ft	218.67
6700.00 ft	0.52	251.87	100.00 ft	6412.65 ft	-1261.44 ft	-1009.63 ft	-1261.44 ft	0.36/100 ft	1615.73 ft	218.67
6800.00 ft	0.64	251.20	100.00 ft	6512.65 ft	-1261.76 ft	-1010.59 ft	-1261.76 ft	0.13/100 ft	1616.58 ft	218.69
6900.00 ft	0.51	182.14	100.00 ft	6612.64 ft	-1262.39 ft	-1011.14 ft	-1262.39 ft	0.66/100 ft	1617.42 ft	218.69
7000.00 ft	0.76	173.38	100.00 ft	6712.64 ft	-1263.50 ft	-1011.08 ft	-1263.50 ft	0.27/100 ft	1618.24 ft	218.67
7100.00 ft	0.96	126.65	100.00 ft	6812.62 ft	-1264.66 ft	-1010.33 ft	-1264.66 ft	0.71/100 ft	1618.68 ft	218.62
7200.00 ft	0.86	72.13	100.00 ft	6912.61 ft	-1264.93 ft	-1008.94 ft	-1264.93 ft	0.84/100 ft	1618.02 ft	218.58
7300.00 ft	0.95	87.52	100.00 ft	7012.60 ft	-1264.66 ft	-1007.39 ft	-1264.66 ft	0.26/100 ft	1616.85 ft	218.54
7350.00 ft	1.13	90.28	50.00 ft	7062.59 ft	-1264.65 ft	-1006.49 ft	-1264.65 ft	0.37/100 ft	1616.28 ft	218.52

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