

SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: Antelope 13-17
County/State: Weld/CO
API #: 05-123-32748

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

Date: 3-9-22
Job Number: 11352-512332748
Survey Engineer: Nathan Proffitt
Instrument Number: GP1-1021

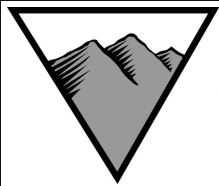
Summit Oilfield Services

Antelope 13-17 Gyro

*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	0.22	203.23	100.00 ft	100.00 ft	-0.18 ft	-0.08 ft	-0.18 ft	0.22/100 ft	0.19 ft	203.23
200.00 ft	0.16	244.18	100.00 ft	200.00 ft	-0.42 ft	-0.28 ft	-0.42 ft	0.15/100 ft	0.51 ft	213.84
300.00 ft	0.46	238.74	100.00 ft	300.00 ft	-0.69 ft	-0.75 ft	-0.69 ft	0.30/100 ft	1.02 ft	227.49
400.00 ft	0.37	236.06	100.00 ft	400.00 ft	-1.08 ft	-1.36 ft	-1.08 ft	0.10/100 ft	1.74 ft	231.66
500.00 ft	0.79	217.31	100.00 ft	499.99 ft	-1.81 ft	-2.05 ft	-1.81 ft	0.46/100 ft	2.73 ft	228.57
600.00 ft	0.69	228.36	100.00 ft	599.98 ft	-2.76 ft	-2.92 ft	-2.76 ft	0.18/100 ft	4.01 ft	226.61
700.00 ft	0.77	218.30	100.00 ft	699.97 ft	-3.68 ft	-3.78 ft	-3.68 ft	0.15/100 ft	5.28 ft	225.76
800.00 ft	1.02	218.50	100.00 ft	799.96 ft	-4.90 ft	-4.75 ft	-4.90 ft	0.26/100 ft	6.83 ft	224.08
900.00 ft	1.11	225.56	100.00 ft	899.94 ft	-6.28 ft	-5.99 ft	-6.28 ft	0.16/100 ft	8.68 ft	223.67
1000.00 ft	1.14	229.55	100.00 ft	999.92 ft	-7.60 ft	-7.44 ft	-7.60 ft	0.09/100 ft	10.64 ft	224.40
1100.00 ft	1.17	228.24	100.00 ft	1099.90 ft	-8.93 ft	-8.96 ft	-8.93 ft	0.04/100 ft	12.65 ft	225.11
1200.00 ft	1.18	227.01	100.00 ft	1199.88 ft	-10.31 ft	-10.48 ft	-10.31 ft	0.03/100 ft	14.70 ft	225.46

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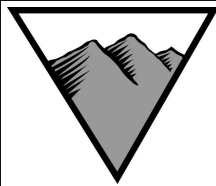
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Survey Engineer: Nathan Proffitt
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
1300.00 ft	1.31	230.00	100.00 ft	1299.86 ft	-11.74 ft	-12.10 ft	-11.74 ft	0.14/100 ft	16.86 ft	225.86
1400.00 ft	1.38	234.25	100.00 ft	1399.83 ft	-13.18 ft	-13.95 ft	-13.18 ft	0.12/100 ft	19.19 ft	226.63
1500.00 ft	1.47	232.96	100.00 ft	1499.80 ft	-14.66 ft	-15.96 ft	-14.66 ft	0.10/100 ft	21.67 ft	227.43
1600.00 ft	1.52	235.38	100.00 ft	1599.77 ft	-16.18 ft	-18.07 ft	-16.18 ft	0.08/100 ft	24.26 ft	228.15
1700.00 ft	1.08	231.71	100.00 ft	1699.74 ft	-17.52 ft	-19.90 ft	-17.52 ft	0.45/100 ft	26.51 ft	228.64
1800.00 ft	0.54	216.58	100.00 ft	1799.73 ft	-18.48 ft	-20.92 ft	-18.48 ft	0.57/100 ft	27.91 ft	228.54
1900.00 ft	0.58	201.55	100.00 ft	1899.73 ft	-19.33 ft	-21.39 ft	-19.33 ft	0.15/100 ft	28.83 ft	227.89
2000.00 ft	0.41	254.46	100.00 ft	1999.72 ft	-19.90 ft	-21.91 ft	-19.90 ft	0.47/100 ft	29.60 ft	227.76
2100.00 ft	0.47	262.38	100.00 ft	2099.72 ft	-20.05 ft	-22.66 ft	-20.05 ft	0.09/100 ft	30.25 ft	228.50
2200.00 ft	0.92	290.49	100.00 ft	2199.71 ft	-19.82 ft	-23.81 ft	-19.82 ft	0.55/100 ft	30.98 ft	230.23
2300.00 ft	1.25	299.61	100.00 ft	2299.69 ft	-19.00 ft	-25.52 ft	-19.00 ft	0.37/100 ft	31.81 ft	233.33
2400.00 ft	1.44	308.31	100.00 ft	2399.67 ft	-17.68 ft	-27.45 ft	-17.68 ft	0.27/100 ft	32.65 ft	237.21
2500.00 ft	1.76	311.01	100.00 ft	2499.63 ft	-15.90 ft	-29.59 ft	-15.90 ft	0.33/100 ft	33.59 ft	241.75
2600.00 ft	2.25	315.31	100.00 ft	2599.57 ft	-13.50 ft	-32.12 ft	-13.50 ft	0.51/100 ft	34.85 ft	247.21
2700.00 ft	2.48	312.82	100.00 ft	2699.48 ft	-10.63 ft	-35.09 ft	-10.63 ft	0.25/100 ft	36.67 ft	253.14
2800.00 ft	2.51	316.83	100.00 ft	2799.39 ft	-7.57 ft	-38.18 ft	-7.57 ft	0.18/100 ft	38.92 ft	258.79
2900.00 ft	2.51	318.95	100.00 ft	2899.29 ft	-4.32 ft	-41.11 ft	-4.32 ft	0.09/100 ft	41.34 ft	264.00
3000.00 ft	1.80	326.15	100.00 ft	2999.22 ft	-1.37 ft	-43.42 ft	-1.37 ft	0.75/100 ft	43.44 ft	268.20
3100.00 ft	1.36	338.39	100.00 ft	3099.18 ft	1.05 ft	-44.74 ft	1.05 ft	0.55/100 ft	44.75 ft	271.34
3200.00 ft	0.70	22.79	100.00 ft	3199.17 ft	2.72 ft	-44.94 ft	2.72 ft	0.99/100 ft	45.02 ft	273.47
3300.00 ft	0.96	102.09	100.00 ft	3299.16 ft	3.11 ft	-43.88 ft	3.11 ft	1.08/100 ft	43.99 ft	274.06

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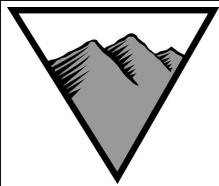
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Date: 3-9-22
Job Number: 11352-512332748
Survey Engineer: Nathan Proffitt
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
3400.00 ft	1.12	113.12	100.00 ft	3399.14 ft	2.55 ft	-42.16 ft	2.55 ft	0.26/100 ft	42.24 ft	273.46
3500.00 ft	1.11	114.52	100.00 ft	3499.12 ft	1.77 ft	-40.38 ft	1.77 ft	0.03/100 ft	40.42 ft	272.51
3600.00 ft	1.17	100.00	100.00 ft	3599.10 ft	1.19 ft	-38.50 ft	1.19 ft	0.30/100 ft	38.52 ft	271.77
3700.00 ft	1.34	92.07	100.00 ft	3699.08 ft	0.97 ft	-36.32 ft	0.97 ft	0.24/100 ft	36.34 ft	271.53
3800.00 ft	1.49	88.57	100.00 ft	3799.05 ft	0.96 ft	-33.85 ft	0.96 ft	0.18/100 ft	33.87 ft	271.63
3900.00 ft	1.64	83.08	100.00 ft	3899.01 ft	1.17 ft	-31.13 ft	1.17 ft	0.21/100 ft	31.15 ft	272.14
4000.00 ft	2.01	71.09	100.00 ft	3998.96 ft	1.91 ft	-28.05 ft	1.91 ft	0.53/100 ft	28.11 ft	273.89
4100.00 ft	2.19	58.66	100.00 ft	4098.89 ft	3.47 ft	-24.76 ft	3.47 ft	0.49/100 ft	25.00 ft	277.98
4200.00 ft	2.14	51.53	100.00 ft	4198.82 ft	5.63 ft	-21.66 ft	5.63 ft	0.27/100 ft	22.38 ft	284.56
4300.00 ft	2.19	50.05	100.00 ft	4298.75 ft	8.02 ft	-18.73 ft	8.02 ft	0.07/100 ft	20.37 ft	293.18
4400.00 ft	2.28	45.39	100.00 ft	4398.68 ft	10.64 ft	-15.85 ft	10.64 ft	0.20/100 ft	19.09 ft	303.89
4500.00 ft	2.21	42.61	100.00 ft	4498.60 ft	13.46 ft	-13.13 ft	13.46 ft	0.13/100 ft	18.80 ft	315.71
4600.00 ft	2.53	37.40	100.00 ft	4598.51 ft	16.63 ft	-10.48 ft	16.63 ft	0.39/100 ft	19.66 ft	327.78
4700.00 ft	3.08	30.13	100.00 ft	4698.39 ft	20.71 ft	-7.79 ft	20.71 ft	0.66/100 ft	22.13 ft	339.39
4800.00 ft	3.17	28.94	100.00 ft	4798.24 ft	25.46 ft	-5.10 ft	25.46 ft	0.10/100 ft	25.96 ft	348.67
4900.00 ft	3.27	30.36	100.00 ft	4898.09 ft	30.34 ft	-2.32 ft	30.34 ft	0.13/100 ft	30.42 ft	355.62
5000.00 ft	3.19	32.92	100.00 ft	4997.93 ft	35.13 ft	0.63 ft	35.13 ft	0.17/100 ft	35.14 ft	1.03
5100.00 ft	3.17	31.79	100.00 ft	5097.77 ft	39.82 ft	3.60 ft	39.82 ft	0.07/100 ft	39.98 ft	5.17
5200.00 ft	2.95	33.08	100.00 ft	5197.63 ft	44.33 ft	6.46 ft	44.33 ft	0.23/100 ft	44.80 ft	8.30
5300.00 ft	2.72	47.29	100.00 ft	5297.51 ft	48.09 ft	9.61 ft	48.09 ft	0.74/100 ft	49.04 ft	11.30
5400.00 ft	2.72	53.87	100.00 ft	5397.40 ft	51.10 ft	13.28 ft	51.10 ft	0.31/100 ft	52.80 ft	14.56

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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
5500.00 ft	2.60	57.64	100.00 ft	5497.29 ft	53.72 ft	17.11 ft	53.72 ft	0.22/100 ft	56.38 ft	17.67
5600.00 ft	2.25	67.31	100.00 ft	5597.20 ft	55.69 ft	20.83 ft	55.69 ft	0.54/100 ft	59.45 ft	20.51
5700.00 ft	1.75	72.09	100.00 ft	5697.14 ft	56.91 ft	24.09 ft	56.91 ft	0.52/100 ft	61.80 ft	22.94
5800.00 ft	2.07	93.77	100.00 ft	5797.09 ft	57.26 ft	27.35 ft	57.26 ft	0.78/100 ft	63.46 ft	25.53
5900.00 ft	2.68	98.85	100.00 ft	5897.00 ft	56.78 ft	31.46 ft	56.78 ft	0.65/100 ft	64.92 ft	28.98
6000.00 ft	3.18	103.73	100.00 ft	5996.87 ft	55.77 ft	36.46 ft	55.77 ft	0.56/100 ft	66.63 ft	33.18
6100.00 ft	3.53	97.79	100.00 ft	6096.70 ft	54.69 ft	42.21 ft	54.69 ft	0.49/100 ft	69.08 ft	37.66

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