

SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: Colorado State 16-11
(OWP)
County/State: Adams/CO
API#: 05-001-08342

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

Date: 8/11/2023
Job Number: 13342-0500108342
Survey Engineer: Mark Loar
Instrument Number: GP1-1025

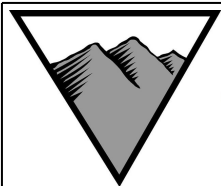
Summit OilField Services

Colorado State 16-11(OWP) Casing Survey

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	0.20	55.11	100.00 ft	100.00 ft	0.10 ft	0.10 ft	0.14 ft	0.20/100 ft	0.17 ft	55.11
200.00 ft	0.26	95.11	100.00 ft	200.00 ft	0.18 ft	0.18 ft	0.51 ft	0.17/100 ft	0.54 ft	70.88
300.00 ft	0.16	114.28	100.00 ft	300.00 ft	0.10 ft	0.10 ft	0.87 ft	0.12/100 ft	0.88 ft	83.59
400.00 ft	0.21	102.40	100.00 ft	400.00 ft	0.00 ft	0.00 ft	1.18 ft	0.06/100 ft	1.18 ft	90.05
500.00 ft	0.18	85.66	100.00 ft	500.00 ft	-0.03 ft	-0.03 ft	1.52 ft	0.07/100 ft	1.52 ft	91.10
600.00 ft	0.25	102.95	100.00 ft	600.00 ft	-0.07 ft	-0.07 ft	1.89 ft	0.09/100 ft	1.89 ft	92.00
700.00 ft	0.46	121.81	100.00 ft	699.99 ft	-0.32 ft	-0.32 ft	2.44 ft	0.24/100 ft	2.46 ft	97.58
800.00 ft	1.04	139.15	100.00 ft	799.99 ft	-1.22 ft	-1.22 ft	3.37 ft	0.62/100 ft	3.58 ft	109.91
900.00 ft	0.85	124.60	100.00 ft	899.97 ft	-2.33 ft	-2.33 ft	4.57 ft	0.30/100 ft	5.13 ft	116.97
1000.00 ft	0.75	130.24	100.00 ft	999.96 ft	-3.17 ft	-3.17 ft	5.68 ft	0.13/100 ft	6.51 ft	119.17
1100.00 ft	0.74	129.40	100.00 ft	1099.95 ft	-4.01 ft	-4.01 ft	6.69 ft	0.02/100 ft	7.79 ft	120.94
1200.00 ft	0.75	124.93	100.00 ft	1199.95 ft	-4.79 ft	-4.79 ft	7.72 ft	0.06/100 ft	9.09 ft	121.83

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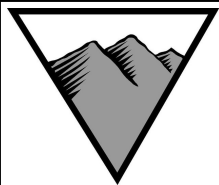
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County/State: Adamas/CO
API#: 05-001-08342

Survey Type: Memory
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Rig Name: N/A
RKB: N/A

Date: 8/11/2023
Job Number: 13342-0500108342
Survey Engineer: Mark Loar
Instrument Number: GP1-1025

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction
1300.00 ft	0.43	112.77	100.00 ft	1299.94 ft	-5.31 ft	-5.31 ft	8.61 ft	0.35/100 ft	10.11 ft	121.70
1400.00 ft	0.31	100.85	100.00 ft	1399.94 ft	-5.51 ft	-5.51 ft	9.21 ft	0.14/100 ft	10.74 ft	120.87
1500.00 ft	0.28	122.41	100.00 ft	1499.94 ft	-5.69 ft	-5.69 ft	9.69 ft	0.11/100 ft	11.23 ft	120.43
1600.00 ft	0.19	25.89	100.00 ft	1599.94 ft	-5.67 ft	-5.67 ft	9.96 ft	0.35/100 ft	11.46 ft	119.65
1700.00 ft	0.18	20.78	100.00 ft	1699.94 ft	-5.38 ft	-5.38 ft	10.09 ft	0.02/100 ft	11.43 ft	118.05
1800.00 ft	0.18	15.32	100.00 ft	1799.94 ft	-5.08 ft	-5.08 ft	10.19 ft	0.02/100 ft	11.38 ft	116.50
1900.00 ft	0.26	13.10	100.00 ft	1899.93 ft	-4.71 ft	-4.71 ft	10.28 ft	0.08/100 ft	11.31 ft	114.61
2000.00 ft	0.15	347.02	100.00 ft	1999.93 ft	-4.36 ft	-4.36 ft	10.30 ft	0.14/100 ft	11.19 ft	112.95
2100.00 ft	0.03	122.50	100.00 ft	2099.93 ft	-4.26 ft	-4.26 ft	10.30 ft	0.17/100 ft	11.14 ft	112.45
2200.00 ft	0.13	138.26	100.00 ft	2199.93 ft	-4.36 ft	-4.36 ft	10.40 ft	0.10/100 ft	11.27 ft	112.73
2300.00 ft	0.38	155.85	100.00 ft	2299.93 ft	-4.74 ft	-4.74 ft	10.61 ft	0.25/100 ft	11.62 ft	114.08
2400.00 ft	0.59	142.01	100.00 ft	2399.93 ft	-5.44 ft	-5.44 ft	11.06 ft	0.24/100 ft	12.32 ft	116.21
2500.00 ft	0.85	117.74	100.00 ft	2499.92 ft	-6.19 ft	-6.19 ft	12.03 ft	0.40/100 ft	13.53 ft	117.23
2600.00 ft	0.86	109.79	100.00 ft	2599.91 ft	-6.79 ft	-6.79 ft	13.40 ft	0.12/100 ft	15.02 ft	116.89
2700.00 ft	0.99	99.72	100.00 ft	2699.90 ft	-7.19 ft	-7.19 ft	14.95 ft	0.21/100 ft	16.59 ft	115.69
2800.00 ft	1.08	109.47	100.00 ft	2799.88 ft	-7.65 ft	-7.65 ft	16.69 ft	0.20/100 ft	18.36 ft	114.63
2900.00 ft	1.05	111.62	100.00 ft	2899.86 ft	-8.30 ft	-8.30 ft	18.43 ft	0.05/100 ft	20.21 ft	114.25
3000.00 ft	0.74	119.84	100.00 ft	2999.85 ft	-8.96 ft	-8.96 ft	19.84 ft	0.34/100 ft	21.77 ft	114.31
3100.00 ft	0.69	129.01	100.00 ft	3099.84 ft	-9.65 ft	-9.65 ft	20.86 ft	0.12/100 ft	22.98 ft	114.84
3200.00 ft	0.79	137.80	100.00 ft	3199.84 ft	-10.54 ft	-10.54 ft	21.79 ft	0.16/100 ft	24.20 ft	115.82
3300.00 ft	0.68	139.54	100.00 ft	3299.83 ft	-11.51 ft	-11.51 ft	22.64 ft	0.11/100 ft	25.39 ft	116.94

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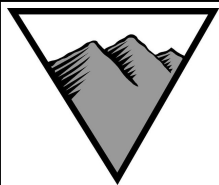
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Survey Type: Memory
North Reference: Ture North
Rig Name: N/A
RKB: N/A

Date: 8/11/2023
Job Number: 13342-0500108342
Survey Engineer: Mark Loar
Instrument Number: GP1-1025

Measured Depth	Indin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction
3400.00 ft	0.65	138.99	100.00 ft	3399.82 ft	-12.39 ft	-12.39 ft	23.40 ft	0.03/100 ft	26.47 ft	117.90
3500.00 ft	0.37	124.70	100.00 ft	3499.82 ft	-13.00 ft	-13.00 ft	24.04 ft	0.31/100 ft	27.33 ft	118.41
3600.00 ft	0.36	126.68	100.00 ft	3599.81 ft	-13.38 ft	-13.38 ft	24.56 ft	0.02/100 ft	27.97 ft	118.58
3700.00 ft	0.68	133.93	100.00 ft	3699.81 ft	-13.98 ft	-13.98 ft	25.24 ft	0.32/100 ft	28.86 ft	118.98
3800.00 ft	0.98	139.37	100.00 ft	3799.80 ft	-15.04 ft	-15.04 ft	26.23 ft	0.31/100 ft	30.24 ft	119.84
3900.00 ft	1.35	152.30	100.00 ft	3899.78 ft	-16.74 ft	-16.74 ft	27.34 ft	0.45/100 ft	32.05 ft	121.48
4000.00 ft	1.41	160.22	100.00 ft	3999.75 ft	-18.94 ft	-18.94 ft	28.30 ft	0.20/100 ft	34.05 ft	123.79
4100.00 ft	1.61	161.38	100.00 ft	4099.72 ft	-21.42 ft	-21.42 ft	29.16 ft	0.20/100 ft	36.19 ft	126.30
4200.00 ft	1.58	147.78	100.00 ft	4199.68 ft	-23.92 ft	-23.92 ft	30.35 ft	0.38/100 ft	38.64 ft	128.25
4300.00 ft	1.66	149.22	100.00 ft	4299.64 ft	-26.33 ft	-26.33 ft	31.82 ft	0.08/100 ft	41.30 ft	129.60
4400.00 ft	1.66	145.99	100.00 ft	4399.60 ft	-28.77 ft	-28.77 ft	33.37 ft	0.09/100 ft	44.06 ft	130.77
4500.00 ft	1.68	152.23	100.00 ft	4499.55 ft	-31.27 ft	-31.27 ft	34.87 ft	0.18/100 ft	46.83 ft	131.89
4600.00 ft	1.84	152.54	100.00 ft	4599.51 ft	-33.99 ft	-33.99 ft	36.29 ft	0.15/100 ft	49.72 ft	133.13
4700.00 ft	2.17	151.90	100.00 ft	4699.44 ft	-37.08 ft	-37.08 ft	37.92 ft	0.33/100 ft	53.04 ft	134.36
4800.00 ft	2.12	153.21	100.00 ft	4799.37 ft	-40.40 ft	-40.40 ft	39.64 ft	0.07/100 ft	56.60 ft	135.54
4900.00 ft	1.76	151.06	100.00 ft	4899.32 ft	-43.39 ft	-43.39 ft	41.22 ft	0.37/100 ft	59.84 ft	136.47
5000.00 ft	1.39	145.59	100.00 ft	4999.28 ft	-45.73 ft	-45.73 ft	42.64 ft	0.40/100 ft	62.53 ft	137.00
5100.00 ft	1.05	132.65	100.00 ft	5099.26 ft	-47.35 ft	-47.35 ft	44.00 ft	0.43/100 ft	64.64 ft	137.10
5200.00 ft	0.93	131.35	100.00 ft	5199.24 ft	-48.51 ft	-48.51 ft	45.29 ft	0.13/100 ft	66.36 ft	136.97
5300.00 ft	1.03	135.83	100.00 ft	5299.23 ft	-49.69 ft	-49.69 ft	46.52 ft	0.13/100 ft	68.07 ft	136.89
5400.00 ft	0.81	163.23	100.00 ft	5399.21 ft	-51.01 ft	-51.01 ft	47.35 ft	0.49/100 ft	69.60 ft	137.13

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Date: 8/11/2023
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Survey Engineer: Mark Loar
Instrument Number: GP1-1025

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction
5500.00 ft	0.82	138.34	100.00 ft	5499.20 ft	-52.22 ft	-52.22 ft	48.03 ft	0.35/100 ft	70.95 ft	137.39
5600.00 ft	0.78	140.46	100.00 ft	5599.20 ft	-53.28 ft	-53.28 ft	48.94 ft	0.06/100 ft	72.35 ft	137.43
5700.00 ft	0.70	134.02	100.00 ft	5699.19 ft	-54.23 ft	-54.23 ft	49.81 ft	0.11/100 ft	73.63 ft	137.43
5800.00 ft	0.87	152.35	100.00 ft	5799.18 ft	-55.33 ft	-55.33 ft	50.61 ft	0.30/100 ft	74.98 ft	137.55
5900.00 ft	0.83	122.96	100.00 ft	5899.17 ft	-56.40 ft	-56.40 ft	51.57 ft	0.43/100 ft	76.42 ft	137.56
6000.00 ft	1.15	134.71	100.00 ft	5999.15 ft	-57.50 ft	-57.50 ft	52.89 ft	0.38/100 ft	78.12 ft	137.39
6100.00 ft	1.34	135.50	100.00 ft	6099.13 ft	-59.04 ft	-59.04 ft	54.42 ft	0.20/100 ft	80.29 ft	137.33
6200.00 ft	1.99	129.48	100.00 ft	6199.09 ft	-60.98 ft	-60.98 ft	56.59 ft	0.67/100 ft	83.19 ft	137.14
6300.00 ft	2.28	128.58	100.00 ft	6299.02 ft	-63.33 ft	-63.33 ft	59.48 ft	0.29/100 ft	86.88 ft	136.79
6400.00 ft	2.69	128.25	100.00 ft	6398.92 ft	-66.02 ft	-66.02 ft	62.88 ft	0.40/100 ft	91.17 ft	136.40
6500.00 ft	3.19	129.29	100.00 ft	6498.79 ft	-69.23 ft	-69.23 ft	66.87 ft	0.51/100 ft	96.26 ft	135.99
6600.00 ft	4.13	134.76	100.00 ft	6598.58 ft	-73.53 ft	-73.53 ft	71.59 ft	1.01/100 ft	102.63 ft	135.77
6700.00 ft	3.88	137.95	100.00 ft	6698.34 ft	-78.59 ft	-78.59 ft	76.41 ft	0.34/100 ft	109.61 ft	135.80
6800.00 ft	3.16	150.18	100.00 ft	6798.15 ft	-83.49 ft	-83.49 ft	80.05 ft	1.04/100 ft	115.67 ft	136.20
6900.00 ft	2.51	161.83	100.00 ft	6898.03 ft	-87.96 ft	-87.96 ft	82.10 ft	0.87/100 ft	120.32 ft	136.97
7000.00 ft	1.55	185.37	100.00 ft	6997.97 ft	-91.39 ft	-91.39 ft	82.66 ft	1.25/100 ft	123.23 ft	137.87
7100.00 ft	0.86	205.73	100.00 ft	7097.95 ft	-93.41 ft	-93.41 ft	82.21 ft	0.81/100 ft	124.44 ft	138.65

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