



SUMMIT
OILFIELD SERVICES, INC

Company: Civitas
Lease/Well: BUCKLEY STATE 16-16
County/ State: Arapahoe, CO
API#: 05-005-06554

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

Date: 1-21-22
Job Number: 11248-500506554
Survey Engineer: N. Brehmer
Instrument Number: GP1-1021

Summit Oilfield Services

BUCKLEY STATE 16-16

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	0.47	354.26	100.00 ft	100.00 ft	0.41 ft	-0.04 ft	0.41 ft	0.47/100 ft	0.41 ft	354.26
200.00 ft	0.78	343.59	100.00 ft	199.99 ft	1.48 ft	-0.28 ft	1.48 ft	0.33/100 ft	1.50 ft	349.44
300.00 ft	0.62	315.03	100.00 ft	299.99 ft	2.51 ft	-0.85 ft	2.51 ft	0.38/100 ft	2.65 ft	341.29
400.00 ft	0.56	329.97	100.00 ft	399.98 ft	3.32 ft	-1.48 ft	3.32 ft	0.17/100 ft	3.63 ft	336.00
500.00 ft	0.61	337.84	100.00 ft	499.98 ft	4.23 ft	-1.92 ft	4.23 ft	0.10/100 ft	4.65 ft	335.58
600.00 ft	0.65	334.33	100.00 ft	599.97 ft	5.24 ft	-2.37 ft	5.24 ft	0.06/100 ft	5.75 ft	335.66
700.00 ft	0.69	316.10	100.00 ft	699.96 ft	6.19 ft	-3.04 ft	6.19 ft	0.22/100 ft	6.89 ft	333.87
800.00 ft	0.78	342.97	100.00 ft	799.95 ft	7.28 ft	-3.66 ft	7.28 ft	0.35/100 ft	8.14 ft	333.33
900.00 ft	0.90	345.98	100.00 ft	899.94 ft	8.69 ft	-4.04 ft	8.69 ft	0.12/100 ft	9.59 ft	335.04
1000.00 ft	0.59	317.39	100.00 ft	999.94 ft	9.83 ft	-4.58 ft	9.83 ft	0.47/100 ft	10.85 ft	334.99
1100.00 ft	0.55	346.22	100.00 ft	1099.93 ft	10.68 ft	-5.05 ft	10.68 ft	0.29/100 ft	11.81 ft	334.69
1200.00 ft	0.56	310.07	100.00 ft	1199.93 ft	11.46 ft	-5.54 ft	11.46 ft	0.35/100 ft	12.73 ft	334.20

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

Date: 1-21-22
Job Number: 11248-500506554
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	1.07	322.25	100.00 ft	1299.92 ft	12.52 ft	-6.49 ft	12.52 ft	0.54/100 ft	14.10 ft	332.59
1400.00 ft	1.14	332.34	100.00 ft	1399.90 ft	14.14 ft	-7.52 ft	14.14 ft	0.20/100 ft	16.01 ft	331.97
1500.00 ft	1.00	328.56	100.00 ft	1499.88 ft	15.76 ft	-8.44 ft	15.76 ft	0.15/100 ft	17.88 ft	331.83
1600.00 ft	1.06	337.40	100.00 ft	1599.86 ft	17.36 ft	-9.25 ft	17.36 ft	0.17/100 ft	19.67 ft	331.94
1700.00 ft	1.08	348.24	100.00 ft	1699.85 ft	19.13 ft	-9.80 ft	19.13 ft	0.20/100 ft	21.49 ft	332.88
1800.00 ft	0.89	335.55	100.00 ft	1799.83 ft	20.75 ft	-10.31 ft	20.75 ft	0.28/100 ft	23.17 ft	333.59
1900.00 ft	1.25	338.92	100.00 ft	1899.81 ft	22.48 ft	-11.02 ft	22.48 ft	0.36/100 ft	25.03 ft	333.88
2000.00 ft	1.24	349.52	100.00 ft	1999.79 ft	24.56 ft	-11.61 ft	24.56 ft	0.23/100 ft	27.16 ft	334.70
2100.00 ft	1.11	333.64	100.00 ft	2099.77 ft	26.49 ft	-12.24 ft	26.49 ft	0.35/100 ft	29.18 ft	335.20
2200.00 ft	1.02	335.49	100.00 ft	2199.75 ft	28.17 ft	-13.04 ft	28.17 ft	0.10/100 ft	31.04 ft	335.16
2300.00 ft	1.04	346.04	100.00 ft	2299.74 ft	29.86 ft	-13.62 ft	29.86 ft	0.19/100 ft	32.82 ft	335.47
2400.00 ft	0.82	339.02	100.00 ft	2399.72 ft	31.41 ft	-14.10 ft	31.41 ft	0.25/100 ft	34.43 ft	335.82
2500.00 ft	0.86	346.38	100.00 ft	2499.71 ft	32.82 ft	-14.54 ft	32.82 ft	0.12/100 ft	35.89 ft	336.11
2600.00 ft	1.00	1.21	100.00 ft	2599.70 ft	34.42 ft	-14.70 ft	34.42 ft	0.27/100 ft	37.43 ft	336.88
2700.00 ft	0.72	28.72	100.00 ft	2699.69 ft	35.84 ft	-14.38 ft	35.84 ft	0.49/100 ft	38.62 ft	338.14
2800.00 ft	0.86	6.31	100.00 ft	2799.68 ft	37.13 ft	-13.99 ft	37.13 ft	0.34/100 ft	39.68 ft	339.35
2900.00 ft	0.71	41.41	100.00 ft	2899.67 ft	38.34 ft	-13.50 ft	38.34 ft	0.49/100 ft	40.65 ft	340.60
3000.00 ft	0.68	27.24	100.00 ft	2999.66 ft	39.34 ft	-12.82 ft	39.34 ft	0.18/100 ft	41.37 ft	341.95
3100.00 ft	0.48	32.69	100.00 ft	3099.66 ft	40.22 ft	-12.32 ft	40.22 ft	0.20/100 ft	42.06 ft	342.97
3200.00 ft	0.81	42.27	100.00 ft	3199.65 ft	41.09 ft	-11.62 ft	41.09 ft	0.34/100 ft	42.70 ft	344.22
3300.00 ft	0.69	60.79	100.00 ft	3299.64 ft	41.91 ft	-10.61 ft	41.91 ft	0.27/100 ft	43.24 ft	345.79

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API#: 05-005-06554

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

Date: 1-21-22
Job Number: 11248-500506554
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	0.81	57.94	100.00 ft	3399.63 ft	42.58 ft	-9.49 ft	42.58 ft	0.12/100 ft	43.63 ft	347.44
3500.00 ft	0.55	32.28	100.00 ft	3499.63 ft	43.36 ft	-8.64 ft	43.36 ft	0.39/100 ft	44.21 ft	348.74
3600.00 ft	0.40	67.62	100.00 ft	3599.62 ft	43.90 ft	-8.05 ft	43.90 ft	0.32/100 ft	44.64 ft	349.60
3700.00 ft	0.60	61.35	100.00 ft	3699.62 ft	44.29 ft	-7.27 ft	44.29 ft	0.21/100 ft	44.88 ft	350.68
3800.00 ft	0.35	48.40	100.00 ft	3799.62 ft	44.74 ft	-6.58 ft	44.74 ft	0.27/100 ft	45.22 ft	351.63
3900.00 ft	0.52	79.88	100.00 ft	3899.61 ft	45.02 ft	-5.91 ft	45.02 ft	0.29/100 ft	45.41 ft	352.52
4000.00 ft	0.16	96.28	100.00 ft	3999.61 ft	45.08 ft	-5.34 ft	45.08 ft	0.37/100 ft	45.40 ft	353.25
4100.00 ft	0.62	109.48	100.00 ft	4099.61 ft	44.89 ft	-4.69 ft	44.89 ft	0.47/100 ft	45.13 ft	354.04
4200.00 ft	0.74	136.30	100.00 ft	4199.60 ft	44.24 ft	-3.73 ft	44.24 ft	0.33/100 ft	44.40 ft	355.18
4300.00 ft	0.72	143.34	100.00 ft	4299.59 ft	43.28 ft	-2.92 ft	43.28 ft	0.09/100 ft	43.38 ft	356.14
4400.00 ft	0.69	113.83	100.00 ft	4399.59 ft	42.53 ft	-1.99 ft	42.53 ft	0.36/100 ft	42.58 ft	357.32
4500.00 ft	0.59	122.31	100.00 ft	4499.58 ft	42.01 ft	-1.00 ft	42.01 ft	0.14/100 ft	42.02 ft	358.64
4600.00 ft	0.63	137.79	100.00 ft	4599.58 ft	41.33 ft	-0.19 ft	41.33 ft	0.17/100 ft	41.33 ft	359.73
4700.00 ft	0.75	159.19	100.00 ft	4699.57 ft	40.31 ft	0.40 ft	40.31 ft	0.28/100 ft	40.32 ft	0.57
4800.00 ft	1.08	152.84	100.00 ft	4799.56 ft	38.87 ft	1.06 ft	38.87 ft	0.34/100 ft	38.89 ft	1.57
4900.00 ft	1.04	171.78	100.00 ft	4899.54 ft	37.14 ft	1.62 ft	37.14 ft	0.35/100 ft	37.17 ft	2.50
5000.00 ft	1.16	158.57	100.00 ft	4999.52 ft	35.30 ft	2.12 ft	35.30 ft	0.28/100 ft	35.36 ft	3.44
5100.00 ft	1.32	173.93	100.00 ft	5099.50 ft	33.21 ft	2.61 ft	33.21 ft	0.37/100 ft	33.31 ft	4.50
5200.00 ft	1.50	192.45	100.00 ft	5199.47 ft	30.78 ft	2.45 ft	30.78 ft	0.49/100 ft	30.88 ft	4.56
5300.00 ft	1.56	182.77	100.00 ft	5299.43 ft	28.15 ft	2.11 ft	28.15 ft	0.26/100 ft	28.23 ft	4.28
5400.00 ft	1.49	182.37	100.00 ft	5399.40 ft	25.50 ft	1.99 ft	25.50 ft	0.06/100 ft	25.57 ft	4.46

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

Date: 1-21-22
Job Number: 11248-500506554
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	1.49	189.03	100.00 ft	5499.36 ft	22.91 ft	1.73 ft	22.91 ft	0.17/100 ft	22.98 ft	4.32
5600.00 ft	1.51	186.91	100.00 ft	5599.33 ft	20.32 ft	1.37 ft	20.32 ft	0.06/100 ft	20.37 ft	3.85
5700.00 ft	1.54	201.79	100.00 ft	5699.29 ft	17.77 ft	0.71 ft	17.77 ft	0.40/100 ft	17.78 ft	2.29
5800.00 ft	1.68	200.23	100.00 ft	5799.25 ft	15.15 ft	-0.30 ft	15.15 ft	0.14/100 ft	15.15 ft	358.88
5900.00 ft	1.81	201.07	100.00 ft	5899.21 ft	12.30 ft	-1.37 ft	12.30 ft	0.13/100 ft	12.38 ft	353.66
6000.00 ft	1.93	203.03	100.00 ft	5999.16 ft	9.28 ft	-2.59 ft	9.28 ft	0.14/100 ft	9.64 ft	344.38
6100.00 ft	2.06	204.16	100.00 ft	6099.09 ft	6.08 ft	-3.99 ft	6.08 ft	0.14/100 ft	7.28 ft	326.74
6200.00 ft	1.98	201.82	100.00 ft	6199.03 ft	2.84 ft	-5.37 ft	2.84 ft	0.12/100 ft	6.07 ft	297.89
6300.00 ft	1.84	210.01	100.00 ft	6298.98 ft	-0.15 ft	-6.81 ft	-0.15 ft	0.30/100 ft	6.81 ft	268.75
6400.00 ft	1.38	241.83	100.00 ft	6398.94 ft	-2.11 ft	-8.68 ft	-2.11 ft	0.99/100 ft	8.93 ft	256.35
6500.00 ft	1.20	251.92	100.00 ft	6498.91 ft	-3.00 ft	-10.74 ft	-3.00 ft	0.29/100 ft	11.15 ft	254.38
6600.00 ft	1.00	259.31	100.00 ft	6598.90 ft	-3.49 ft	-12.59 ft	-3.49 ft	0.24/100 ft	13.06 ft	254.51
6700.00 ft	0.73	264.82	100.00 ft	6698.88 ft	-3.71 ft	-14.09 ft	-3.71 ft	0.28/100 ft	14.57 ft	255.25
6800.00 ft	0.82	261.52	100.00 ft	6798.88 ft	-3.87 ft	-15.43 ft	-3.87 ft	0.09/100 ft	15.91 ft	255.91
6900.00 ft	0.47	268.52	100.00 ft	6898.87 ft	-3.99 ft	-16.54 ft	-3.99 ft	0.35/100 ft	17.02 ft	256.45
7000.00 ft	0.09	236.94	100.00 ft	6998.87 ft	-4.04 ft	-17.02 ft	-4.04 ft	0.40/100 ft	17.49 ft	256.64
7100.00 ft	0.20	61.00	100.00 ft	7098.87 ft	-4.00 ft	-16.94 ft	-4.00 ft	0.29/100 ft	17.40 ft	256.71
7200.00 ft	0.53	59.38	100.00 ft	7198.86 ft	-3.68 ft	-16.39 ft	-3.68 ft	0.33/100 ft	16.80 ft	257.34
7300.00 ft	0.45	38.02	100.00 ft	7298.86 ft	-3.14 ft	-15.75 ft	-3.14 ft	0.20/100 ft	16.06 ft	258.72
7400.00 ft	0.72	19.70	100.00 ft	7398.86 ft	-2.24 ft	-15.30 ft	-2.24 ft	0.33/100 ft	15.47 ft	261.66
7500.00 ft	0.66	47.28	100.00 ft	7498.85 ft	-1.26 ft	-14.67 ft	-1.26 ft	0.33/100 ft	14.72 ft	265.09

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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
7600.00 ft	0.50	32.05	100.00 ft	7598.84 ft	-0.50 ft	-14.01 ft	-0.50 ft	0.22/100 ft	14.02 ft	267.96

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