



SUMMIT
SLICKLINE INC.

Company: CRESTONE PEAK
Lease/Well: GRANDE 4-65 20-19 3CH
State/County: ARAPAHOE, CO
API#: 05-005-07487

Survey Type: DROP METHOD GYRO
North Reference: TRUE NORTH
Rig Name: ENSIGN 122
RKB: 13

Date: 09-12-21
Job Number: 10764
Survey Engineer: J-BENSON
J-HOOPES
Instrument Number: 1021

SUMMIT OILFIELD SERVICES

GRANDE 4-65 20-19 3CH GYRO

Minimum Curvature Method
Vertical Section Plane: 272.80
Vertical Section Reference: WELLHEAD
Rectangular Coordinates Reference: WELLHEAD

Measured Depth	Inclin	Azimuth	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction	Comment
0.00 ft	0.00	0.00	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00/100 ft	0.00 ft	0.00	Tie In Station
17.94 ft	1.09	306.40	17.94 ft	0.14 ft	0.10 ft	-0.14 ft	6.10/100 ft	0.17 ft	306.40	
48.50 ft	0.84	288.69	48.49 ft	0.60 ft	0.35 ft	-0.58 ft	1.28/100 ft	0.68 ft	300.66	
79.06 ft	0.85	284.81	79.05 ft	1.04 ft	0.48 ft	-1.01 ft	0.19/100 ft	1.12 ft	295.12	
109.62 ft	0.85	273.06	109.61 ft	1.48 ft	0.55 ft	-1.46 ft	0.57/100 ft	1.56 ft	290.50	
140.18 ft	1.01	289.69	140.16 ft	1.97 ft	0.65 ft	-1.94 ft	1.02/100 ft	2.04 ft	288.49	
170.74 ft	1.59	270.02	170.72 ft	2.65 ft	0.74 ft	-2.62 ft	2.38/100 ft	2.72 ft	285.77	
201.30 ft	1.78	301.59	201.26 ft	3.49 ft	0.99 ft	-3.44 ft	3.06/100 ft	3.58 ft	285.99	
231.86 ft	1.70	277.98	231.81 ft	4.36 ft	1.30 ft	-4.30 ft	2.34/100 ft	4.49 ft	286.81	
262.42 ft	1.63	278.44	262.36 ft	5.24 ft	1.43 ft	-5.18 ft	0.25/100 ft	5.37 ft	285.39	
305.08 ft	0.99	290.57	305.01 ft	6.19 ft	1.64 ft	-6.12 ft	1.63/100 ft	6.34 ft	285.03	
347.74 ft	0.57	293.00	347.66 ft	6.74 ft	1.86 ft	-6.66 ft	0.98/100 ft	6.91 ft	285.57	
390.40 ft	0.57	289.04	390.32 ft	7.15 ft	2.01 ft	-7.06 ft	0.09/100 ft	7.34 ft	285.88	

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North Reference: TRUE NORTH
Rig Name: ENSIGN 122
RKB: 13

Date: 09-12-21
Job Number: 10764
Survey Engineer: J-BENSON
J-HOOPES
Instrument Number: 1021

Measured Depth	Inclin	Azimuth	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction	Comment
433.06 ft	0.58	290.68	432.98 ft	7.56 ft	2.15 ft	-7.46 ft	0.04/100 ft	7.76 ft	286.10	
475.72 ft	0.80	320.78	475.63 ft	7.96 ft	2.46 ft	-7.85 ft	0.99/100 ft	8.23 ft	287.41	
518.38 ft	0.58	345.79	518.29 ft	8.22 ft	2.90 ft	-8.09 ft	0.87/100 ft	8.60 ft	289.74	
561.04 ft	0.69	319.38	560.95 ft	8.46 ft	3.31 ft	-8.31 ft	0.72/100 ft	8.95 ft	291.71	
603.70 ft	0.99	2.31	603.60 ft	8.64 ft	3.87 ft	-8.46 ft	1.59/100 ft	9.31 ft	294.59	
646.36 ft	1.60	37.22	646.25 ft	8.31 ft	4.72 ft	-8.09 ft	2.27/100 ft	9.36 ft	300.24	
689.02 ft	2.02	55.29	688.89 ft	7.38 ft	5.62 ft	-7.11 ft	1.65/100 ft	9.06 ft	308.31	
731.68 ft	2.14	52.40	731.52 ft	6.17 ft	6.53 ft	-5.86 ft	0.37/100 ft	8.78 ft	318.09	
774.34 ft	2.37	45.81	774.15 ft	4.97 ft	7.63 ft	-4.60 ft	0.81/100 ft	8.91 ft	328.93	
817.00 ft	2.32	47.32	816.78 ft	3.76 ft	8.83 ft	-3.33 ft	0.19/100 ft	9.44 ft	339.33	
859.66 ft	2.35	39.98	859.40 ft	2.63 ft	10.09 ft	-2.14 ft	0.71/100 ft	10.31 ft	348.05	
902.32 ft	2.49	42.12	902.02 ft	1.51 ft	11.45 ft	-0.95 ft	0.39/100 ft	11.49 ft	355.25	
944.98 ft	2.36	48.76	944.64 ft	0.29 ft	12.71 ft	0.33 ft	0.72/100 ft	12.72 ft	1.50	
987.64 ft	2.27	41.78	987.27 ft	-0.87 ft	13.92 ft	1.56 ft	0.70/100 ft	14.01 ft	6.38	
1030.30 ft	1.96	46.14	1029.90 ft	-1.90 ft	15.06 ft	2.64 ft	0.81/100 ft	15.29 ft	9.95	
1072.96 ft	1.42	48.39	1072.54 ft	-2.78 ft	15.91 ft	3.56 ft	1.27/100 ft	16.31 ft	12.62	
1115.62 ft	1.35	54.94	1115.19 ft	-3.55 ft	16.55 ft	4.37 ft	0.40/100 ft	17.12 ft	14.78	
1158.28 ft	1.83	62.38	1157.83 ft	-4.54 ft	17.16 ft	5.38 ft	1.22/100 ft	17.98 ft	17.42	
1200.94 ft	1.84	65.55	1200.47 ft	-5.73 ft	17.75 ft	6.61 ft	0.24/100 ft	18.94 ft	20.42	
1243.60 ft	1.25	59.69	1243.12 ft	-6.73 ft	18.27 ft	7.63 ft	1.43/100 ft	19.80 ft	22.67	
1286.26 ft	1.89	68.53	1285.76 ft	-7.76 ft	18.76 ft	8.69 ft	1.61/100 ft	20.68 ft	24.85	

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Measured Depth	Inclin	Azimuth	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction	Comment
1328.92 ft	1.61	57.54	1328.40 ft	-8.89 ft	19.34 ft	9.85 ft	1.02/100 ft	21.71 ft	26.99	
1371.58 ft	1.27	61.86	1371.05 ft	-9.79 ft	19.89 ft	10.77 ft	0.83/100 ft	22.62 ft	28.44	
1414.24 ft	1.29	72.08	1413.70 ft	-10.65 ft	20.26 ft	11.65 ft	0.54/100 ft	23.37 ft	29.90	
1456.90 ft	1.49	77.80	1456.34 ft	-11.63 ft	20.53 ft	12.65 ft	0.57/100 ft	24.11 ft	31.65	
1499.56 ft	1.12	71.89	1498.99 ft	-12.56 ft	20.77 ft	13.59 ft	0.94/100 ft	24.82 ft	33.19	
1542.22 ft	1.53	78.88	1541.64 ft	-13.50 ft	21.01 ft	14.54 ft	1.03/100 ft	25.55 ft	34.69	
1584.88 ft	1.53	58.61	1584.29 ft	-14.52 ft	21.42 ft	15.59 ft	1.26/100 ft	26.49 ft	36.05	
1627.54 ft	1.26	66.46	1626.93 ft	-15.41 ft	21.90 ft	16.50 ft	0.78/100 ft	27.42 ft	37.00	
1670.20 ft	1.13	58.74	1669.58 ft	-16.18 ft	22.31 ft	17.29 ft	0.48/100 ft	28.22 ft	37.78	
1712.86 ft	1.63	48.73	1712.23 ft	-16.96 ft	22.93 ft	18.11 ft	1.30/100 ft	29.21 ft	38.30	
1755.52 ft	1.94	36.14	1754.87 ft	-17.80 ft	23.91 ft	18.99 ft	1.17/100 ft	30.53 ft	38.46	
1798.18 ft	1.83	25.78	1797.51 ft	-18.46 ft	25.11 ft	19.71 ft	0.84/100 ft	31.92 ft	38.14	
1840.84 ft	1.81	40.03	1840.15 ft	-19.14 ft	26.24 ft	20.44 ft	1.06/100 ft	33.26 ft	37.92	
1883.50 ft	1.90	30.83	1882.78 ft	-19.88 ft	27.36 ft	21.24 ft	0.72/100 ft	34.64 ft	37.82	
1926.16 ft	1.54	19.77	1925.42 ft	-20.38 ft	28.51 ft	21.79 ft	1.14/100 ft	35.88 ft	37.40	
1968.82 ft	1.44	11.37	1968.07 ft	-20.62 ft	29.57 ft	22.09 ft	0.56/100 ft	36.91 ft	36.77	
2011.48 ft	1.53	2.26	2010.72 ft	-20.70 ft	30.66 ft	22.22 ft	0.59/100 ft	37.87 ft	35.93	
2054.14 ft	1.27	348.43	2053.36 ft	-20.57 ft	31.69 ft	22.15 ft	0.99/100 ft	38.66 ft	34.95	
2096.80 ft	1.55	356.15	2096.01 ft	-20.39 ft	32.73 ft	22.02 ft	0.79/100 ft	39.44 ft	33.93	
2139.46 ft	1.63	359.57	2138.65 ft	-20.29 ft	33.91 ft	21.97 ft	0.30/100 ft	40.40 ft	32.94	

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