



SUMMIT
 DIRECTIONAL SOLUTIONS
 A SUMMIT OILFIELD SERVICES COMPANY

Company: BONANZA CREEK
 Lease/Well: Antelope 11-20
 State/County: CO./ WELD
 API#: 05-123-34023

Survey Type: MEMORY SURVEY
 North Reference: TRUE NORTH
 Rig Name: N/A
 RKB: N/A

Date: 09-01-2021
 Job Number: 10600-512334023
 Survey Engineer: JAMES BENSON
 Instrument Number: GP1-1021

SUMMIT OILFIELD SERVICES

Antelope 11-20

*Minimum Curvature Method
 Vertical Section Plane: 0.00
 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
100.00 ft	0.22	56.00	100.00 ft	0.11 ft	0.11 ft	0.16 ft	0.22/100 ft	0.19 ft	56.00	
200.00 ft	0.34	11.66	200.00 ft	0.51 ft	0.51 ft	0.38 ft	0.24/100 ft	0.63 ft	36.71	
300.00 ft	0.42	333.23	300.00 ft	1.13 ft	1.13 ft	0.27 ft	0.26/100 ft	1.17 ft	13.57	
400.00 ft	0.83	1.40	399.99 ft	2.19 ft	2.19 ft	0.12 ft	0.50/100 ft	2.19 ft	3.26	
500.00 ft	0.97	345.22	499.98 ft	3.73 ft	3.73 ft	-0.07 ft	0.29/100 ft	3.73 ft	358.85	
600.00 ft	0.71	320.71	599.97 ft	5.04 ft	5.04 ft	-0.69 ft	0.44/100 ft	5.08 ft	352.25	
700.00 ft	0.93	328.85	699.96 ft	6.21 ft	6.21 ft	-1.50 ft	0.24/100 ft	6.39 ft	346.44	
800.00 ft	0.56	341.86	799.95 ft	7.36 ft	7.36 ft	-2.07 ft	0.40/100 ft	7.65 ft	344.31	
900.00 ft	0.75	306.05	899.94 ft	8.21 ft	8.21 ft	-2.75 ft	0.44/100 ft	8.66 ft	341.49	
1000.00 ft	0.70	297.72	999.93 ft	8.88 ft	8.88 ft	-3.82 ft	0.12/100 ft	9.67 ft	336.73	
1100.00 ft	0.55	339.61	1099.93 ft	9.62 ft	9.62 ft	-4.53 ft	0.47/100 ft	10.63 ft	334.78	
1200.00 ft	0.41	296.57	1199.93 ft	10.23 ft	10.23 ft	-5.01 ft	0.38/100 ft	11.39 ft	333.88	

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 API#: 05-123-34023

Survey Type: MEMORY SURVEY
 North Reference: TRUE NORTH
 Rig Name: N/A
 RKB: N/A

Date: 09-01-2021
 Job Number: 10600-512334023
 Survey Engineer: JAMES BENSON
 Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction	Comment
1300.00 ft	0.67	297.83	1299.92 ft	10.66 ft	10.66 ft	-5.85 ft	0.27/100 ft	12.16 ft	331.24	
1400.00 ft	0.74	317.18	1399.91 ft	11.41 ft	11.41 ft	-6.81 ft	0.25/100 ft	13.28 ft	329.17	
1500.00 ft	0.64	303.14	1499.91 ft	12.18 ft	12.18 ft	-7.71 ft	0.20/100 ft	14.41 ft	327.67	
1600.00 ft	0.58	314.00	1599.90 ft	12.84 ft	12.84 ft	-8.54 ft	0.13/100 ft	15.42 ft	326.37	
1700.00 ft	0.19	256.87	1699.90 ft	13.15 ft	13.15 ft	-9.07 ft	0.51/100 ft	15.98 ft	325.42	
1800.00 ft	0.06	121.91	1799.90 ft	13.09 ft	13.09 ft	-9.18 ft	0.24/100 ft	15.99 ft	324.95	
1900.00 ft	0.22	145.24	1899.90 ft	12.90 ft	12.90 ft	-9.03 ft	0.16/100 ft	15.75 ft	325.03	
2000.00 ft	0.42	156.28	1999.90 ft	12.41 ft	12.41 ft	-8.77 ft	0.21/100 ft	15.20 ft	324.75	
2100.00 ft	0.64	173.09	2099.89 ft	11.52 ft	11.52 ft	-8.56 ft	0.27/100 ft	14.35 ft	323.40	
2200.00 ft	0.65	179.19	2199.89 ft	10.40 ft	10.40 ft	-8.48 ft	0.07/100 ft	13.42 ft	320.80	
2300.00 ft	0.23	131.63	2299.88 ft	9.70 ft	9.70 ft	-8.32 ft	0.52/100 ft	12.78 ft	319.36	
2400.00 ft	0.59	102.96	2399.88 ft	9.45 ft	9.45 ft	-7.67 ft	0.40/100 ft	12.17 ft	320.92	
2500.00 ft	0.56	131.36	2499.88 ft	9.01 ft	9.01 ft	-6.81 ft	0.28/100 ft	11.29 ft	322.93	
2600.00 ft	0.30	45.81	2599.87 ft	8.87 ft	8.87 ft	-6.25 ft	0.61/100 ft	10.85 ft	324.81	
2700.00 ft	0.54	70.58	2699.87 ft	9.21 ft	9.21 ft	-5.62 ft	0.30/100 ft	10.79 ft	328.61	
2800.00 ft	0.16	76.15	2799.87 ft	9.40 ft	9.40 ft	-5.04 ft	0.38/100 ft	10.66 ft	331.82	
2900.00 ft	0.58	24.28	2899.87 ft	9.90 ft	9.90 ft	-4.69 ft	0.50/100 ft	10.95 ft	334.65	
3000.00 ft	0.35	52.94	2999.86 ft	10.55 ft	10.55 ft	-4.23 ft	0.32/100 ft	11.37 ft	338.14	
3100.00 ft	0.37	355.37	3099.86 ft	11.06 ft	11.06 ft	-4.01 ft	0.35/100 ft	11.77 ft	340.06	
3200.00 ft	0.76	172.69	3199.86 ft	10.73 ft	10.73 ft	-3.95 ft	1.14/100 ft	11.43 ft	339.76	
3300.00 ft	1.31	184.34	3299.84 ft	8.93 ft	8.93 ft	-3.96 ft	0.58/100 ft	9.76 ft	336.10	

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 State/County: CO./ WELD
 API#: 05-123-34023

Survey Type: MEMORY SURVEY
 North Reference: TRUE NORTH
 Rig Name: N/A
 RKB: N/A

Date: 09-01-2021
 Job Number: 10600-512334023
 Survey Engineer: JAMES BENSON
 Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction	Comment
3400.00 ft	1.62	164.78	3399.81 ft	6.42 ft	6.42 ft	-3.67 ft	0.58/100 ft	7.40 ft	330.25	
3500.00 ft	1.92	173.61	3499.76 ft	3.39 ft	3.39 ft	-3.11 ft	0.41/100 ft	4.60 ft	317.43	
3600.00 ft	1.61	166.78	3599.72 ft	0.36 ft	0.36 ft	-2.61 ft	0.38/100 ft	2.63 ft	277.80	
3700.00 ft	1.80	170.44	3699.67 ft	-2.55 ft	-2.55 ft	-2.03 ft	0.22/100 ft	3.26 ft	218.44	
3800.00 ft	1.14	173.90	3799.64 ft	-5.09 ft	-5.09 ft	-1.66 ft	0.66/100 ft	5.35 ft	198.07	
3900.00 ft	1.49	167.62	3899.61 ft	-7.35 ft	-7.35 ft	-1.27 ft	0.38/100 ft	7.46 ft	189.84	
4000.00 ft	1.10	179.03	3999.59 ft	-9.58 ft	-9.58 ft	-0.98 ft	0.47/100 ft	9.63 ft	185.83	
4100.00 ft	0.98	184.17	4099.57 ft	-11.40 ft	-11.40 ft	-1.02 ft	0.15/100 ft	11.44 ft	185.14	
4200.00 ft	1.03	210.49	4199.55 ft	-13.03 ft	-13.03 ft	-1.55 ft	0.46/100 ft	13.12 ft	186.76	
4300.00 ft	0.81	197.73	4299.54 ft	-14.47 ft	-14.47 ft	-2.22 ft	0.31/100 ft	14.64 ft	188.71	
4400.00 ft	0.76	232.21	4399.53 ft	-15.55 ft	-15.55 ft	-2.95 ft	0.47/100 ft	15.83 ft	190.76	
4500.00 ft	0.48	204.74	4499.53 ft	-16.33 ft	-16.33 ft	-3.65 ft	0.40/100 ft	16.73 ft	192.60	
4600.00 ft	0.42	258.61	4599.52 ft	-16.78 ft	-16.78 ft	-4.18 ft	0.41/100 ft	17.29 ft	194.00	
4700.00 ft	0.33	196.44	4699.52 ft	-17.13 ft	-17.13 ft	-4.62 ft	0.40/100 ft	17.75 ft	195.11	
4800.00 ft	0.27	305.82	4799.52 ft	-17.27 ft	-17.27 ft	-4.90 ft	0.50/100 ft	17.95 ft	195.84	
4900.00 ft	0.33	33.94	4899.52 ft	-16.89 ft	-16.89 ft	-4.93 ft	0.42/100 ft	17.60 ft	196.27	
5000.00 ft	0.51	342.16	4999.52 ft	-16.23 ft	-16.23 ft	-4.91 ft	0.40/100 ft	16.96 ft	196.82	
5100.00 ft	1.23	19.18	5099.51 ft	-14.80 ft	-14.80 ft	-4.69 ft	0.88/100 ft	15.53 ft	197.58	
5200.00 ft	1.27	24.72	5199.48 ft	-12.78 ft	-12.78 ft	-3.87 ft	0.13/100 ft	13.36 ft	196.86	
5300.00 ft	0.99	39.56	5299.46 ft	-11.11 ft	-11.11 ft	-2.86 ft	0.40/100 ft	11.47 ft	194.44	
5400.00 ft	0.87	9.31	5399.45 ft	-9.70 ft	-9.70 ft	-2.19 ft	0.50/100 ft	9.94 ft	192.71	

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Measured Depth	Inclin	Azimuth	True Vertical Depth	Vertical Section	N[+]/S[-]	E[+]/W[-]	Dogleg Severity	Closure Distance	Closure Direction	Comment
5500.00 ft	0.94	15.92	5499.44 ft	-8.16 ft	-8.16 ft	-1.84 ft	0.13/100 ft	8.37 ft	192.70	
5600.00 ft	0.95	14.13	5599.43 ft	-6.57 ft	-6.57 ft	-1.41 ft	0.03/100 ft	6.72 ft	192.14	
5700.00 ft	0.91	2.99	5699.41 ft	-4.97 ft	-4.97 ft	-1.17 ft	0.19/100 ft	5.10 ft	193.23	
5800.00 ft	0.88	7.56	5799.40 ft	-3.41 ft	-3.41 ft	-1.03 ft	0.08/100 ft	3.57 ft	196.72	
5900.00 ft	0.95	3.58	5899.39 ft	-1.83 ft	-1.83 ft	-0.87 ft	0.10/100 ft	2.02 ft	205.54	
6000.00 ft	1.01	7.89	5999.37 ft	-0.12 ft	-0.12 ft	-0.70 ft	0.10/100 ft	0.71 ft	260.07	
6100.00 ft	0.99	5.30	6099.36 ft	1.61 ft	1.61 ft	-0.50 ft	0.05/100 ft	1.69 ft	342.80	

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