



SUMMIT
SLICKLINE INC.

Company: PDC ENERGY
Lease / Well: MELLON 28-1 05123-11133
County/Parish: WELD 123
State: COLORADO
Date: 2/10/2017
Rig: NA
Surveyor: JOHNNY RIDDLE
Job Number: 3607-05-123-11133
Instrument Number: 3123 **Type:** MEMORY
Proposed Direction: 0 **GL Elev:** 4855
Magnetic Declination 9.79 EAST TO TRUE NORTH
Calulation Method: MINIMUM OF CURVATURE
Log Measured From: GL

TIE-IN Coordinates

Measured Depth (ft.)	Inclination	Azimuth Bearing	Vertical Depth	Coordinates	
				(+N/-S)	(+E/-W)
0	0.00	0.00	0.00	0.00	0.00

Directional Survey Report

Measured Depth (ft.)	Inclination	Azimuth Bearing	Vertical Depth	Vertical Section	Coordinates (+N/-S)	Coordinates (+E/-W)	Dog-Leg / 100 ft.	Closure Distance	Closure Direction
100	0.50	148.20	100.00	-0.37	-0.37	0.23	0.50	0.44	148.20°
200	0.17	149.70	200.00	-0.87	-0.87	0.53	0.33	1.02	148.42°
300	0.51	139.83	299.99	-1.34	-1.34	0.90	0.34	1.61	146.17°
400	0.36	227.00	399.99	-1.89	-1.89	0.95	0.61	2.12	153.25°
500	0.68	191.86	499.99	-2.69	-2.69	0.60	0.44	2.75	167.37°
600	0.65	181.13	599.98	-3.84	-3.84	0.47	0.13	3.86	173.03°
700	0.52	210.80	699.98	-4.79	-4.79	0.23	0.32	4.80	177.31°
800	0.76	234.78	799.97	-5.56	-5.56	-0.55	0.35	5.59	185.63°
900	0.79	210.97	899.96	-6.54	-6.54	-1.45	0.32	6.70	192.46°
1000	0.60	200.94	999.95	-7.62	-7.62	-1.99	0.22	7.87	194.62°
1100	0.78	191.96	1099.95	-8.77	-8.77	-2.32	0.21	9.07	194.78°
1200	0.44	189.20	1199.94	-9.82	-9.82	-2.52	0.34	10.14	194.38°
1300	0.99	188.49	1299.93	-11.05	-11.05	-2.71	0.55	11.38	193.76°
1400	1.00	225.72	1399.92	-12.51	-12.51	-3.46	0.64	12.98	195.45°
1500	0.55	239.48	1499.91	-13.37	-13.37	-4.50	0.48	14.10	198.59°
1600	1.09	244.35	1599.90	-14.02	-14.02	-5.77	0.54	15.16	202.36°
1700	0.51	207.48	1699.89	-14.83	-14.83	-6.83	0.75	16.33	204.73°
1800	0.62	240.91	1799.89	-15.49	-15.49	-7.51	0.34	17.21	205.87°
1900	0.83	233.67	1899.88	-16.18	-16.18	-8.57	0.23	18.31	207.90°
2000	0.93	247.84	1999.87	-16.92	-16.92	-9.90	0.24	19.60	210.34°
2100	0.89	258.99	2099.85	-17.37	-17.37	-11.41	0.18	20.78	213.31°
2200	0.55	269.89	2199.85	-17.52	-17.52	-12.66	0.37	21.61	215.85°
2300	1.29	297.61	2299.83	-17.00	-17.00	-14.13	0.84	22.11	219.74°
2400	0.80	265.54	2399.82	-16.53	-16.53	-15.83	0.75	22.89	223.76°
2500	0.71	289.18	2499.81	-16.38	-16.38	-17.11	0.32	23.69	226.24°
2600	0.90	308.99	2599.80	-15.68	-15.68	-18.30	0.33	24.10	229.41°
2700	0.93	279.57	2699.79	-15.05	-15.05	-19.71	0.47	24.81	232.63°
2800	1.03	322.00	2799.77	-14.21	-14.21	-21.07	0.72	25.41	236.00°
2900	1.17	307.89	2899.75	-12.88	-12.88	-22.43	0.30	25.86	240.14°
3000	0.72	321.54	2999.74	-11.76	-11.76	-23.62	0.50	26.39	243.54°
3100	0.45	304.11	3099.73	-11.04	-11.04	-24.34	0.32	26.73	245.59°
3200	1.05	272.63	3199.73	-10.78	-10.78	-25.58	0.71	27.76	247.14°
3300	0.83	266.06	3299.71	-10.79	-10.79	-27.22	0.24	29.28	248.37°
3400	0.67	241.22	3399.70	-11.12	-11.12	-28.45	0.36	30.55	248.65°
3500	0.90	289.09	3499.70	-11.15	-11.15	-29.71	0.67	31.73	249.43°
3600	0.66	329.52	3599.69	-10.39	-10.39	-30.74	0.58	32.45	251.32°
3700	1.46	290.99	3699.67	-9.44	-9.44	-32.22	1.03	33.58	253.67°
3800	0.78	238.95	3799.65	-9.34	-9.34	-34.00	1.16	35.25	254.65°
3900	0.28	304.73	3899.65	-9.55	-9.55	-34.78	0.71	36.07	254.65°
4000	1.43	310.68	3999.64	-8.59	-8.59	-35.93	1.15	36.94	256.55°
4100	1.08	323.06	4099.61	-7.03	-7.03	-37.44	0.44	38.09	259.37°
4200	0.89	276.01	4199.60	-6.19	-6.19	-38.78	0.81	39.27	260.93°
4300	0.61	1.62	4299.59	-5.58	-5.58	-39.54	1.04	39.93	261.97°
4400	0.27	312.13	4399.59	-4.89	-4.89	-39.70	0.48	40.00	262.98°
4500	0.23	272.34	4499.59	-4.72	-4.72	-40.07	0.17	40.35	263.28°
4600	0.21	298.23	4599.59	-4.63	-4.63	-40.43	0.10	40.70	263.47°
4700	0.80	273.66	4699.58	-4.50	-4.50	-41.29	0.62	41.54	263.78°
4800	0.74	288.58	4799.58	-4.25	-4.25	-42.60	0.21	42.81	264.31°

Directional Survey Report									
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4900	0.52	286.02	4899.57	-3.92	-3.92	-43.65	0.22	43.82	264.87°
5000	0.27	317.08	4999.57	-3.62	-3.62	-44.25	0.32	44.39	265.33°
5100	0.35	344.02	5099.57	-3.15	-3.15	-44.49	0.16	44.60	265.95°
5200	0.36	193.93	5199.56	-3.16	-3.16	-44.65	0.69	44.76	265.95°
5300	0.89	213.93	5299.56	-4.11	-4.11	-45.16	0.57	45.35	264.80°
5400	1.04	249.63	5399.55	-5.07	-5.07	-46.44	0.61	46.72	263.77°
5500	1.59	270.19	5499.52	-5.38	-5.38	-48.68	0.72	48.98	263.69°
5600	1.02	270.62	5599.49	-5.37	-5.37	-50.96	0.57	51.24	263.98°
5700	1.41	284.52	5699.47	-5.05	-5.05	-53.04	0.49	53.28	264.56°
5800	1.67	297.80	5799.43	-4.06	-4.06	-55.52	0.44	55.67	265.81°
5900	1.73	293.40	5899.39	-2.78	-2.78	-58.19	0.14	58.26	267.26°
6000	2.03	298.44	5999.34	-1.34	-1.34	-61.14	0.34	61.15	268.74°
6100	0.97	309.97	6099.30	0.05	0.05	-63.34	1.10	63.34	270.04°
6200	1.14	339.56	6199.28	1.52	1.52	-64.34	0.56	64.36	271.35°
6300	0.91	347.13	6299.27	3.23	3.23	-64.86	0.27	64.94	272.85°
6400	1.21	335.01	6399.25	4.96	4.96	-65.49	0.37	65.67	274.33°
6500	1.32	333.18	6499.23	6.94	6.94	-66.45	0.12	66.81	275.97°
6600	1.32	335.66	6599.20	9.02	9.02	-67.45	0.06	68.05	277.62°
6700	0.97	322.21	6699.18	10.74	10.74	-68.44	0.44	69.28	278.92°
6800	0.63	308.58	6799.17	11.75	11.75	-69.39	0.39	70.38	279.61°
6900	0.84	276.52	6899.16	12.18	12.18	-70.55	0.45	71.59	279.79°
7000	0.27	225.64	6999.16	12.10	12.10	-71.44	0.70	72.46	279.61°

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