



FOUNDATION ENERGY MANAGEMENT, LLC

DIRECTIONAL SURVEYING WORKSHEET

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Sectional Interpretation (Circular Arc)

Company: FOUNDATION ENERGY MANAGEMENT, LLC
 Field: LAY CREEK
 Borehole: GAMMA STATE 41-21
 Date: N/A
 Note:

Engineer: RLP
 Survey: PLAN

Survey Number	Measured Depth	INC	AZM	True Vertical Depth	Relative Coordinates		Relative Closure	Closure Azimuth	Dogleg Severity Deg/100Ft
					North= + South= -	East= + West= -			
0	0	0.00	222.79	0.00	0.00	0.00	0.00	222.79	-
1	500	0.00	222.79	500.00	0.00	0.00	0.00	222.79	0.00
2	1000	0.00	222.79	1000.00	0.00	0.00	0.00	222.79	0.00
3	1000	0.00	222.79	1000.00	0.00	0.00	0.00	222.79	0.00
4	1100	2.78	222.79	1099.96	-1.78	-1.65	2.42	222.79	2.78
5	1200	5.55	222.79	1199.69	-7.11	-6.58	9.68	222.79	2.78
6	1300	8.33	222.79	1298.94	-15.97	-14.79	21.76	222.79	2.78
7	1400	11.10	222.79	1397.50	-28.35	-26.25	38.64	222.79	2.78
8	1500	13.88	222.79	1495.12	-44.23	-40.94	60.27	222.79	2.78
9	1600	16.66	222.79	1591.58	-63.55	-58.83	86.60	222.79	2.78
10	1700	19.43	222.79	1686.66	-86.28	-79.87	117.57	222.79	2.78
11	1800	22.21	222.79	1780.12	-112.36	-104.01	153.11	222.79	2.78
12	1900	24.98	222.79	1871.75	-141.73	-131.20	193.13	222.79	2.78
13	2000	27.76	222.79	1961.33	-174.32	-161.38	237.55	222.79	2.78
14	3000	27.76	222.79	2846.24	-516.11	-477.79	703.31	222.79	0.00
15	4000	27.76	222.79	3731.15	-857.90	-794.20	1169.08	222.79	0.00
16	5000	27.76	222.79	4616.06	-1199.69	#####	1634.85	222.79	0.00
17	6000	27.76	222.79	5500.97	-1541.48	#####	2100.61	222.79	0.00
18	6100	24.98	222.79	5590.55	-1574.08	#####	2145.03	222.79	2.78
19	6200	22.21	222.79	5682.18	-1603.45	#####	2185.05	222.79	2.78
20	6300	19.43	222.79	5775.64	-1629.53	#####	2220.59	222.79	2.78
21	6400	16.66	222.79	5870.71	-1652.25	#####	2251.56	222.79	2.78
22	6500	13.88	222.79	5967.17	-1671.58	#####	2277.89	222.79	2.78
23	6600	11.10	222.79	6064.80	-1687.45	#####	2299.52	222.79	2.78
24	6700	8.33	222.79	6163.35	-1699.83	#####	2316.40	222.79	2.78
25	6800	5.55	222.79	6262.61	-1708.70	#####	2328.48	222.79	2.78
26	6900	2.78	222.79	6362.34	-1714.02	#####	2335.74	222.79	2.78
27	7000	0.00	222.79	6462.30	-1715.80	#####	2338.16	222.79	2.78
28	7278	0.00	222.79	6740.00	-1715.80	#####	2338.16	222.79	0.00
29	7500	0.00	222.79	6962.30	-1715.80	#####	2338.16	222.79	0.00
30	8000	0.00	222.79	7462.30	-1715.80	#####	2338.16	222.79	0.00
31	8500	0.00	222.79	7962.30	-1715.80	#####	2338.16	222.79	0.00
32	8968	0.00	222.79	8430.00	-1715.80	#####	2338.16	222.79	0.00
33	9000	0.00	222.79	8462.30	-1715.80	#####	2338.16	222.79	0.00
34	9138	0.00	222.79	8600.00	-1715.80	#####	2338.16	222.79	0.00
35				-537.70	-1715.80	#####	2338.16	222.79	0.00
36				-537.70	-1715.80	#####	2338.16	222.79	0.00
37				-537.70	-1715.80	#####	2338.16	222.79	0.00
38				-537.70	-1715.80	#####	2338.16	222.79	0.00
39				-537.70	-1715.80	#####	2338.16	222.79	0.00
40				-537.70	-1715.80	#####	2338.16	222.79	0.00
41				-537.70	-1715.80	#####	2338.16	222.79	0.00
42				-537.70	-1715.80	#####	2338.16	222.79	0.00
43				-537.70	-1715.80	#####	2338.16	222.79	0.00
44				-537.70	-1715.80	#####	2338.16	222.79	0.00
45				-537.70	-1715.80	#####	2338.16	222.79	0.00
46				-537.70	-1715.80	#####	2338.16	222.79	0.00
47				-537.70	-1715.80	#####	2338.16	222.79	0.00
48				-537.70	-1715.80	#####	2338.16	222.79	0.00
49				-537.70	-1715.80	#####	2338.16	222.79	0.00
50				-537.70	-1715.80	#####	2338.16	222.79	0.00
51				-537.70	-1715.80	#####	2338.16	222.79	0.00
52				-537.70	-1715.80	#####	2338.16	222.79	0.00
53				-537.70	-1715.80	#####	2338.16	222.79	0.00
54				-537.70	-1715.80	#####	2338.16	222.79	0.00
55				-537.70	-1715.80	#####	2338.16	222.79	0.00