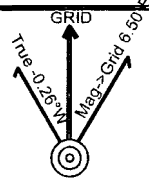
	Job Number:	191073	Elev. GL:	3412.00 ft	RKB:	25.00 ft	
	Company:	N/A	System:	US State Plane 1927 (Exact solution)			
	Lease/Well:	N/A	Group:	New Mexico East 3001			
	Location:	N/A	Datum:	CLARKE 1866			
	Rig Name:	N/A	Mag. Decl.:	6.76° (C:\HawkEye\IGRF2005.mif)			
	State/Country:	N/A/ N/A	Grid Conv.:	0.26410 E			
	Country:	N/A	Date:	Thursday, April 4, 2019			

Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 349.20°
Northing (US ft): 456871.90 Easting (US ft): 652961.40
Latitude: 32°15'18.3197" N Longitude: -103°50'18.7041" W
Direction Reference: Grid North



#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Closure (Ft)	CL (Ft)	NS (Ft)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	120.00	0.80	34.70	120.00	0.48	0.59	0.67	0.84	120.00	0.69
3	209.00	1.40	29.20	208.98	1.36	1.86	0.68	2.54	89.00	2.15
4	304.00	1.20	20.00	303.95	2.27	3.60	0.30	4.68	95.00	4.10
5	396.00	1.10	15.60	395.94	2.83	5.22	0.14	6.50	92.00	5.85
6	487.00	1.10	6.80	486.92	3.17	6.83	0.19	8.20	91.00	7.56
7	572.00	0.90	13.20	571.91	3.42	8.22	0.27	9.65	85.00	9.02
8	663.00	0.80	358.00	662.90	3.56	9.50	0.27	10.95	91.00	10.35
9	753.00	0.50	10.00	752.89	3.61	10.49	0.36	11.93	90.00	11.37
10	846.00	0.50	10.10	845.89	3.75	11.25	0.00	12.73	93.00	12.17
11	937.00	0.50	15.70	936.88	3.93	11.97	0.05	13.52	91.00	12.94
12	1028.00	0.60	25.40	1027.88	4.24	12.71	0.15	14.39	91.00	13.75
13	1117.00	0.60	25.10	1116.87	4.64	13.47	0.00	15.31	89.00	14.59
14	1208.00	0.60	10.10	1207.87	4.92	14.30	0.17	16.26	91.00	15.49
15	1298.00	0.70	26.30	1297.86	5.25	15.18	0.23	17.27	90.00	16.45
16	1388.00	0.70	7.60	1387.86	5.57	16.14	0.25	18.35	90.00	17.49
17	1479.00	0.60	356.50	1478.85	5.61	17.14	0.18	19.35	91.00	18.52
18	1570.00	0.70	18.60	1569.85	5.76	18.09	0.29	20.35	91.00	19.52
19	1661.00	0.70	2.50	1660.84	5.96	19.12	0.22	21.45	91.00	20.60
20	1751.00	0.60	32.80	1750.83	6.24	20.00	0.39	22.43	90.00	21.55
21	1841.00	0.50	36.60	1840.83	6.73	20.60	0.12	23.25	90.00	22.26
22	1932.00	0.80	40.20	1931.82	7.37	21.27	0.33	24.21	91.00	23.06
23	2023.00	0.70	42.40	2022.82	8.16	22.00	0.11	25.31	91.00	23.96
24	2113.00	0.70	44.00	2112.81	8.91	22.65	0.02	26.31	90.00	24.76
25	2204.00	0.70	11.50	2203.80	9.41	23.48	0.43	27.37	91.00	25.70
26	2296.00	0.70	26.70	2295.80	9.77	24.45	0.20	28.49	92.00	26.76
27	2387.00	0.70	1.10	2386.79	10.03	25.44	0.34	29.56	91.00	27.81
28	2476.00	0.60	11.20	2475.78	10.14	26.40	0.17	30.54	89.00	28.81
29	2567.00	0.50	359.40	2566.78	10.22	27.23	0.17	31.39	91.00	29.67
30	2657.00	0.70	338.70	2656.77	10.02	28.16	0.32	32.18	90.00	30.58
31	2748.00	0.30	2.10	2747.77	9.83	28.94	0.48	32.84	91.00	31.33
32	2840.00	0.50	353.90	2839.77	9.79	29.57	0.23	33.44	92.00	31.97
33	2930.00	0.40	292.40	2929.77	9.46	30.14	0.52	33.83	90.00	32.48
34	3020.00	0.50	303.70	3019.76	8.84	30.58	0.15	33.99	90.00	32.82
35	3112.00	1.00	281.00	3111.76	7.72	31.16	0.62	34.08	92.00	33.20
36	3203.00	1.80	249.70	3202.73	5.60	31.22	1.19	33.33	91.00	32.85
37	3294.00	1.60	237.20	3293.69	3.19	30.51	0.46	31.83	91.00	31.67
38	3385.00	1.60	203.70	3384.66	1.61	28.99	1.01	29.86	91.00	29.82
39	3478.00	1.80	201.40	3477.61	0.56	26.68	0.23	27.27	93.00	27.27
40	3568.00	1.80	195.50	3567.57	-0.33	24.22	0.21	24.59	90.00	24.59
41	3658.00	2.40	190.80	3657.51	-1.06	21.20	0.69	21.40	90.00	21.38
42	3748.00	2.90	184.10	3747.41	-1.58	17.25	0.65	17.33	90.00	17.26
43	3825.00	2.90	186.90	3824.31	-1.95	13.51	0.18	13.52	77.00	13.38
44	3951.00	2.70	179.90	3950.16	-2.33	7.56	0.31	7.61	126.00	7.25
45	4042.00	2.60	216.30	4041.07	-3.55	4.04	1.82	4.94	91.00	3.44

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Closure (Ft)	CL (Ft)	NS (Ft)
46	4133.00	3.70	238.70	4131.94	-7.28	1.61	1.79	7.29	91.00	0.25
47	4224.00	6.30	250.00	4222.59	-14.48	-0.22	3.04	14.79	91.00	-2.98
48	4315.00	8.80	252.90	4312.79	-25.83	-1.78	2.78	26.69	91.00	-6.74
49	4403.00	10.30	253.80	4399.57	-39.82	-3.26	1.71	41.29	88.00	-10.91
50	4494.00	10.40	254.40	4489.09	-55.54	-4.71	0.16	57.64	91.00	-15.39
51	4585.00	11.10	252.60	4578.49	-71.81	-6.40	0.85	74.60	91.00	-20.22
52	4677.00	11.70	250.10	4668.68	-89.04	-8.90	0.84	92.77	92.00	-26.04
53	4768.00	11.70	249.90	4757.78	-106.38	-11.85	0.04	111.19	91.00	-32.35
54	4857.00	11.70	250.10	4844.94	-123.34	-14.73	0.05	129.21	89.00	-38.53
55	4948.00	11.30	249.50	4934.11	-140.36	-17.70	0.46	147.34	91.00	-44.79
56	5039.00	10.90	251.30	5023.41	-156.86	-20.38	0.58	164.84	91.00	-50.67
57	5130.00	10.80	250.80	5112.78	-173.06	-22.81	0.15	181.97	91.00	-56.23
58	5220.00	10.50	251.30	5201.23	-188.80	-25.17	0.35	198.60	90.00	-61.64
59	5310.00	11.20	257.20	5289.62	-205.09	-26.60	1.46	215.51	90.00	-66.20
60	5401.00	13.30	259.80	5378.55	-224.01	-26.80	2.39	234.70	91.00	-70.01
61	5493.00	13.70	260.10	5468.00	-245.16	-26.52	0.44	256.01	92.00	-73.76
62	5584.00	13.10	260.30	5556.53	-265.94	-26.15	0.66	276.96	91.00	-77.35
63	5674.00	12.70	261.70	5644.25	-285.78	-25.52	0.56	296.90	90.00	-80.50
64	5763.00	12.30	262.70	5731.15	-304.86	-24.52	0.51	315.99	89.00	-83.11
65	5853.00	12.00	261.90	5819.13	-323.64	-23.49	0.38	334.78	90.00	-85.65
66	5943.00	9.50	279.70	5907.57	-340.23	-20.45	4.59	350.86	90.00	-85.72
67	6035.00	9.90	285.00	5998.25	-355.35	-14.35	1.06	364.78	92.00	-82.39
68	6125.00	9.50	285.20	6086.97	-369.99	-7.72	0.45	378.21	90.00	-78.44
69	6216.00	9.20	286.20	6176.76	-384.22	-1.13	0.37	391.37	91.00	-74.44
70	6307.00	10.20	288.50	6266.46	-398.85	6.12	1.18	404.92	91.00	-69.86
71	6399.00	12.30	285.50	6356.68	-416.02	14.45	2.37	421.01	92.00	-64.65
72	6489.00	11.70	285.10	6444.72	-434.07	22.68	0.67	438.16	90.00	-59.71
73	6580.00	11.10	286.10	6533.92	-451.39	30.67	0.69	454.72	91.00	-54.88
74	6671.00	11.30	284.60	6623.19	-468.44	38.46	0.39	471.12	91.00	-50.20
75	6761.00	11.30	281.90	6711.44	-485.60	45.65	0.59	487.79	90.00	-46.16
76	6854.00	12.50	279.50	6802.44	-504.44	52.65	1.40	506.24	93.00	-42.62
77	6943.00	11.60	280.00	6889.48	-522.75	59.17	1.02	524.24	89.00	-39.48
78	7034.00	12.30	277.10	6978.51	-541.38	65.40	1.01	542.62	91.00	-36.69
79	7124.00	12.00	277.20	7066.49	-560.18	71.24	0.33	561.23	90.00	-34.34
80	7216.00	11.20	277.60	7156.61	-578.52	77.02	0.87	579.40	92.00	-31.95
81	7307.00	12.10	276.40	7245.74	-596.76	82.63	1.02	597.50	91.00	-29.72
82	7399.00	11.90	276.20	7335.73	-615.77	88.25	0.22	616.39	92.00	-27.62
83	7490.00	12.30	277.10	7424.71	-634.72	93.97	0.49	635.23	91.00	-25.41
84	7581.00	11.90	276.30	7513.68	-653.66	99.71	0.48	654.07	91.00	-23.18
85	7670.00	12.20	277.00	7600.72	-672.12	105.28	0.37	672.45	89.00	-21.03
86	7761.00	12.10	275.90	7689.69	-691.15	110.96	0.28	691.41	91.00	-18.88
87	7851.00	11.30	272.70	7777.82	-709.34	115.73	1.14	709.56	90.00	-17.49
88	7943.00	12.80	278.50	7867.79	-728.42	121.21	2.09	728.59	92.00	-15.56
89	8036.00	12.00	276.60	7958.62	-748.22	127.50	0.97	748.33	93.00	-12.93
90	8082.00	16.70	294.50	8003.19	-758.99	132.76	13.94	759.05	46.00	-9.64
91	8127.00	20.70	307.50	8045.83	-771.20	142.44	12.79	771.20	45.00	-2.11
92	8173.00	25.30	316.90	8088.17	-784.37	156.83	12.77	784.44	46.00	10.03
93	8219.00	29.90	323.40	8128.94	-797.94	175.48	11.94	798.37	46.00	26.42
94	8264.00	34.30	327.20	8167.05	-811.50	197.34	10.75	812.81	45.00	46.10
95	8310.00	39.00	331.90	8203.96	-825.35	223.20	11.89	828.29	46.00	69.78
96	8355.00	41.10	337.80	8238.41	-837.61	251.23	9.64	843.09	45.00	95.98
97	8400.00	42.40	343.80	8272.00	-847.44	280.85	9.33	856.50	45.00	124.25
98	8445.00	42.30	349.70	8305.27	-854.38	311.11	8.83	868.10	45.00	153.73
99	8490.00	42.30	354.00	8338.56	-858.67	341.34	6.43	878.10	45.00	183.70
100	8535.00	42.70	357.30	8371.74	-860.98	371.54	5.03	887.17	45.00	214.00
101	8582.00	44.10	357.50	8405.89	-862.44	403.51	2.99	896.91	47.00	246.26

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	VS (Ft)	DLS "/100 Ft	Closure (Ft)	CL (Ft)	NS (Ft)
102	8626.00	46.40	355.40	8436.86	-864.39	434.50	6.23	907.82	44.00	277.45
103	8671.00	49.40	354.50	8467.03	-867.33	467.72	6.83	921.30	45.00	310.70
104	8717.00	53.00	353.20	8495.85	-871.18	503.44	8.13	937.50	46.00	346.33
105	8763.00	58.10	351.70	8521.86	-876.18	541.30	11.41	956.60	46.00	383.92
106	8809.00	65.00	351.70	8543.77	-882.01	581.68	15.00	978.60	46.00	423.92
107	8854.00	72.00	351.00	8560.25	-888.31	623.50	15.62	1002.79	45.00	465.28
108	8900.00	77.30	354.10	8572.42	-894.05	667.76	13.23	1028.91	46.00	509.25
109	8946.00	82.30	357.90	8580.57	-897.19	712.69	13.57	1054.66	46.00	554.39
110	8992.00	85.70	0.80	8585.38	-897.71	757.71	9.69	1079.83	46.00	600.12
111	9038.00	87.60	1.20	8588.07	-896.90	802.66	4.22	1105.35	46.00	646.04
112	9129.00	88.70	0.60	8591.00	-895.48	891.72	1.38	1159.74	91.00	736.97
113	9221.00	89.80	0.40	8592.21	-894.67	981.92	1.22	1219.68	92.00	828.96
114	9313.00	87.40	0.40	8594.46	-894.03	1072.14	2.61	1283.51	92.00	920.93
115	9404.00	87.50	359.70	8598.50	-893.95	1161.42	0.78	1350.17	91.00	1011.83
116	9495.00	88.50	358.50	8601.68	-895.38	1251.01	1.72	1420.49	91.00	1102.77
117	9584.00	89.50	357.40	8603.23	-898.56	1338.96	1.67	1492.50	89.00	1191.69
118	9675.00	90.20	0.70	8603.47	-900.07	1428.60	3.71	1566.96	91.00	1282.67
119	9767.00	90.90	0.80	8602.59	-898.87	1518.74	0.77	1642.45	92.00	1374.65
120	9859.00	91.30	359.80	8600.82	-898.39	1609.00	1.17	1719.92	92.00	1466.63
121	9949.00	90.40	359.90	8599.49	-898.62	1697.44	1.01	1797.39	90.00	1556.62
122	10041.00	91.30	358.80	8598.12	-899.67	1787.98	1.54	1878.11	92.00	1648.60
123	10132.00	91.80	359.70	8595.66	-900.86	1877.55	1.13	1958.98	91.00	1739.56
124	10223.00	89.80	1.20	8594.39	-900.14	1966.79	2.75	2039.89	91.00	1830.54
125	10314.00	90.20	0.80	8594.39	-898.55	2055.87	0.62	2121.24	91.00	1921.53
126	10405.00	88.30	0.50	8595.58	-897.52	2145.04	2.11	2203.58	91.00	2012.51
127	10496.00	89.20	359.70	8597.57	-897.36	2234.38	1.32	2286.90	91.00	2103.49
128	10587.00	90.30	358.30	8597.96	-898.95	2324.05	1.96	2371.46	91.00	2194.47
129	10678.00	90.90	357.10	8597.01	-902.60	2414.04	1.47	2457.17	91.00	2285.39
130	10769.00	90.10	358.50	8596.22	-906.09	2504.01	1.77	2543.20	91.00	2376.32
131	10861.00	90.70	357.30	8595.57	-909.47	2594.95	1.46	2630.47	92.00	2468.25
132	10952.00	91.10	359.70	8594.14	-911.85	2684.73	2.67	2716.79	91.00	2559.20
133	11044.00	89.80	1.30	8593.42	-911.04	2774.94	2.24	2803.36	92.00	2651.19
134	11135.00	90.40	0.80	8593.26	-909.38	2864.00	0.86	2889.03	91.00	2742.17
135	11226.00	90.60	2.60	8592.47	-906.68	2952.84	1.99	2974.67	91.00	2833.13
136	11317.00	87.80	2.50	8593.74	-902.63	3041.36	3.08	3060.17	91.00	2924.02
137	11408.00	88.10	1.30	8597.00	-899.61	3130.08	1.36	3146.26	91.00	3014.91
138	11500.00	89.10	0.70	8599.24	-898.01	3220.10	1.27	3234.04	92.00	3106.86
139	11590.00	89.80	359.70	8600.11	-897.70	3308.44	1.36	3320.51	90.00	3196.86
140	11682.00	91.30	358.90	8599.22	-898.82	3399.01	1.85	3409.45	92.00	3288.84
141	11772.00	89.60	0.20	8598.52	-899.53	3487.54	2.38	3496.52	90.00	3378.83
142	11862.00	90.60	359.70	8598.36	-899.60	3575.96	1.24	3583.58	90.00	3468.83
143	11953.00	91.60	358.90	8596.61	-900.72	3665.53	1.41	3671.99	91.00	3559.81
144	12043.00	90.10	358.80	8595.28	-902.52	3754.24	1.67	3759.71	90.00	3649.77
145	12134.00	86.50	358.50	8597.98	-904.66	3843.95	3.97	3848.53	91.00	3740.69
146	12225.00	86.90	357.50	8603.22	-907.84	3933.73	1.18	3937.57	91.00	3831.49
147	12317.00	87.80	359.30	8607.47	-910.40	4024.45	2.19	4027.59	92.00	3923.35
148	12408.00	88.80	358.90	8610.17	-911.83	4114.05	1.18	4116.55	91.00	4014.30
149	12498.00	91.00	359.30	8610.33	-913.24	4202.70	2.48	4204.65	90.00	4104.28
150	12591.00	92.20	357.50	8607.73	-915.84	4294.47	2.33	4295.96	93.00	4197.20
151	12685.00	90.80	357.10	8605.27	-920.26	4387.50	1.55	4388.63	94.00	4291.06
152	12776.00	91.30	358.60	8603.60	-923.68	4477.44	1.74	4478.27	91.00	4381.98
153	12866.00	90.70	0.00	8602.03	-924.78	4566.03	1.69	4566.57	90.00	4471.96
154	12958.00	89.70	0.60	8601.71	-924.30	4656.31	1.27	4656.61	92.00	4563.95
155	13049.00	91.10	359.80	8601.07	-923.98	4745.63	1.77	4745.76	91.00	4654.95
156	13141.00	93.40	359.60	8597.46	-924.46	4836.01	2.51	4836.05	92.00	4746.87
157	13184.00	94.80	0.00	8594.39	-924.61	4878.17	3.39	4878.18	43.00	4789.76

#	Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	VS (Ft)	DLS °/100 Ft	Closure (Ft)	CL (Ft)	NS (Ft)
158	13230.00	94.80	0.00	8590.54	-924.61	4923.20	0.00	4923.20	46.00	4835.60