



6/19/21/27

Station	Surface	Reduced Level	Formation	Reduced Level	Bank	Cutting	Cub.Yds.Per Chain	Rate of Grade	Curve Data	Barthworks
178.00	177.47	178.61	178.39	1.84		4.5	178.39	1 in 100	R. 20	B. 29
177.02	178.39	178.31	1.67		4.5	5.2			4.01/471	C. 30 175
176.15	178.15	178.07	1.67		4.5	5.2				C. 29 56
175.21	178.15	178.07	1.67		4.5	5.2				B. 29 175
174.29	177.99	177.99	1.67		4.5	5.2				C. 30
173.33	177.83	177.83	1.67		4.5	5.2				C. 30
172.40	177.75	177.75	1.67		4.5	5.2				C. 30
171.46	177.59	177.59	1.67		4.5	5.2				C. 30
170.53	177.43	177.43	1.67		4.5	5.2				C. 30
169.60	177.27	177.27	1.67		4.5	5.2				C. 30
168.67	177.11	177.11	1.67		4.5	5.2				C. 30
167.74	176.95	176.95	1.67		4.5	5.2				C. 30
166.81	176.79	176.79	1.67		4.5	5.2				C. 30
165.88	176.63	176.63	1.67		4.5	5.2				C. 30
164.95	176.47	176.47	1.67		4.5	5.2				C. 30
164.02	176.31	176.31	1.67		4.5	5.2				C. 30
163.09	176.15	176.15	1.67		4.5	5.2				C. 30
162.16	175.99	175.99	1.67		4.5	5.2				C. 30
161.23	175.83	175.83	1.67		4.5	5.2				C. 30
160.30	175.67	175.67	1.67		4.5	5.2				C. 30
159.37	175.51	175.51	1.67		4.5	5.2				C. 30
158.44	175.35	175.35	1.67		4.5	5.2				C. 30
157.51	175.19	175.19	1.67		4.5	5.2				C. 30
156.58	175.03	175.03	1.67		4.5	5.2				C. 30
155.65	174.87	174.87	1.67		4.5	5.2				C. 30
154.72	174.71	174.71	1.67		4.5	5.2				C. 30
153.79	174.55	174.55	1.67		4.5	5.2				C. 30
152.86	174.39	174.39	1.67		4.5	5.2				C. 30
151.93	174.23	174.23	1.67		4.5	5.2				C. 30
151.00	174.07	174.07	1.67		4.5	5.2				C. 30
150.07	173.91	173.91	1.67		4.5	5.2				C. 30
149.14	173.75	173.75	1.67		4.5	5.2				C. 30
148.21	173.59	173.59	1.67		4.5	5.2				C. 30
147.28	173.43	173.43	1.67		4.5	5.2				C. 30
146.35	173.27	173.27	1.67		4.5	5.2				C. 30
145.42	173.11	173.11	1.67		4.5	5.2				C. 30
144.49	172.95	172.95	1.67		4.5	5.2				C. 30
143.56	172.79	172.79	1.67		4.5	5.2				C. 30
142.63	172.63	172.63	1.67		4.5	5.2				C. 30
141.70	172.47	172.47	1.67		4.5	5.2				C. 30
140.77	172.31	172.31	1.67		4.5	5.2				C. 30
139.84	172.15	172.15	1.67		4.5	5.2				C. 30
138.91	171.99	171.99	1.67		4.5	5.2				C. 30
137.98	171.83	171.83	1.67		4.5	5.2				C. 30
137.05	171.67	171.67	1.67		4.5	5.2				C. 30
136.12	171.51	171.51	1.67		4.5	5.2				C. 30
135.19	171.35	171.35	1.67		4.5	5.2				C. 30
134.26	171.19	171.19	1.67		4.5	5.2				C. 30
133.33	171.03	171.03	1.67		4.5	5.2				C. 30
132.40	170.87	170.87	1.67		4.5	5.2				C. 30
131.47	170.71	170.71	1.67		4.5	5.2				C. 30
130.54	170.55	170.55	1.67		4.5	5.2				C. 30
129.61	170.39	170.39	1.67		4.5	5.2				C. 30
128.68	170.23	170.23	1.67		4.5	5.2				C. 30
127.75	170.07	170.07	1.67		4.5	5.2				C. 30
126.82	169.91	169.91	1.67		4.5	5.2				C. 30
125.89	169.75	169.75	1.67		4.5	5.2				C. 30
124.96	169.59	169.59	1.67		4.5	5.2				C. 30
124.03	169.43	169.43	1.67		4.5	5.2				C. 30
123.10	169.27	169.27	1.67		4.5	5.2				C. 30
122.17	169.11	169.11	1.67		4.5	5.2				C. 30
121.24	168.95	168.95	1.67		4.5	5.2				C. 30
120.31	168.79	168.79	1.67		4.5	5.2				C. 30
119.38	168.63	168.63	1.67		4.5	5.2				C. 30
118.45	168.47	168.47	1.67		4.5	5.2				C. 30
117.52	168.31	168.31	1.67		4.5	5.2				C. 30
116.59	168.15	168.15	1.67		4.5	5.2				C. 30
115.66	167.99	167.99	1.67		4.5	5.2				C. 30
114.73	167.83	167.83	1.67		4.5	5.2				C. 30
113.80	167.67	167.67	1.67		4.5	5.2				C. 30
112.87	167.51	167.51	1.67		4.5	5.2				C. 30
111.94	167.35	167.35	1.67		4.5	5.2				C. 30
111.01	167.19	167.19	1.67		4.5	5.2				C. 30
110.08	167.03	167.03	1.67		4.5	5.2				C. 30
109.15	166.87	166.87	1.67		4.5	5.2				C. 30
108.22	166.71	166.71	1.67		4.5	5.2				C. 30
107.29	166.55	166.55	1.67		4.5	5.2				C. 30
106.36	166.39	166.39	1.67		4.5	5.2				C. 30
105.43	166.23	166.23	1.67		4.5	5.2				C. 30
104.50	166.07	166.07	1.67		4.5	5.2				C. 30
103.57	165.91	165.91	1.67		4.5	5.2				C. 30
102.64	165.75	165.75	1.67		4.5	5.2				C. 30
101.71	165.59	165.59	1.67		4.5	5.2				C. 30
100.78	165.43	165.43	1.67		4.5	5.2				C. 30
99.85	165.27	165.27	1.67		4.5	5.2				C. 30
98.92	165.11	165.11	1.67		4.5	5.2				C. 30
97.99	164.95	164.95	1.67		4.5	5.2				C. 30
97.06	164.79	164.79	1.67		4.5	5.2				C. 30
96.13	164.63	164.63	1.67		4.5	5.2				C. 30
95.20	164.47	164.47	1.67		4.5	5.2				C. 30
94.27	164.31	164.31	1.67		4.5	5.2				C. 30
93.34	164.15	164.15	1.67		4.5	5.2				C. 30
92.41	163.99	163.99	1.67		4.5	5.2				C. 30
91.48	163.83	163.83	1.67		4.5	5.2				C. 30
90.55	163.67	163.67	1.67		4.5	5.2				C. 30
89.62	163.51	163.51	1.67		4.5	5.2				C. 30
88.69	163.35	163.35	1.67		4.5	5.2				C. 30
87.76	163.19	163.19	1.67		4.5	5.2				C. 30
86.83	163.03	163.03	1.67		4.5	5.2				C. 30
85.90	162.87	162.87	1.67		4.5	5.2				C. 30
84.97	162.71	162.71	1.67		4.5	5.2				C. 30
84.04	162.55	162.55	1.67		4.5	5.2				C. 30
83.11	162.39	162.39	1.67		4.5	5.2				C. 30
82.18	162.23	162.23	1.67		4.5	5.2				C. 30
81.25	162.07	162.07	1.67		4.5	5.2				C. 30
80.32	161.91	161.91	1.67		4.5	5.2				C. 30
79.39	161.75	161.75	1.67		4.5	5.2				C. 30
78.46	161.59	161.59	1.67		4.5	5.2				C. 30
77.53	161.43	161.43	1.67		4.5	5.2				C. 30
76.60	161.27	161.27	1.67		4.5	5.2				C. 30
75.67	161.11	161.11	1.67		4.5	5.2				C. 30
74.74	160.95	160.95	1.67		4.5	5.2				C. 30
73.81	160.79	160.79	1.67		4.5	5.2				C. 30
72.88	160.63	160.63	1.67		4.5	5.2				C. 30
71.95	160.47	160.47	1.67		4.5	5.2				C. 30
71.02	160.31	160.31	1.67		4.5	5.2				C. 30
70.09	160.15	160.15	1.67		4.5	5.2				C. 30
69.16	159.99	159.99	1.67		4.5	5.2				C. 30
68.23	159.83	159.83	1.67		4.5	5.2				C. 30
67.30	159.67	159.67	1.67		4.5	5.2				