

5 cm

Survey of Mine Workings

Stations	Horizontal Angle	Quadrants	Vertical Angle	Distance in feet	Reduced		Latitudes		Departures		Totals				Elevation Corner Peg taken at station Peg 2300 ft	Remarks
					Hor Dist	Vert Dist	N	S	E	W	N	S	E	W		
Corner Peg to A	267°31'	S87°31'W	8°16'	333.433	329.21	47.841-		14.264		328.9		14.264		328.90	2252.159	Surface Peg
A to B	346°	N14°W	12°41'	263.075	256.065	57.628-	248.46			61.958	234.195			390.858	2194.531	" Peg on Tip No. 3 Adit
A to C	197°	S17°W	23°33'	126.72	126.585	5.840+		121.054		37.01		135.318		365.91	2257.999	" " " No. 2 "
C to D	192°01'	S12°1'W	6°15'+	181.1	180.03	19.726+		176.085		37.430		311.323		403.34	2277.725	Surface Peg
D to E	160°10'	S19°50'E	9°42'+	327.5	322.82	55.18+		303.672	109.58			614.995		293.76	2332.905	" Peg on Tip No. 1 Adit
D to F	110°55'	S49°5'E	9°15'+	285.	281.24	45.812+		100.405	262.706			411.728		140.534	2323.534	" " " No. 1 "
B to 1	157°30'	S22°30'E		60.	60.	.26+		55.433	22.961		178.762			367.897	2194.791	No. 3 Tunnel
1 to 2	160°	S20°E		154.	154.	.75+		144.71	52.671		34.052			315.126	2195.541	"
2 to 3	163°31'	S16°29'E		49.5	49.5	.25+		47.465	14.045			12.756		301.181	2195.791	"
3 to 4	171°29'	S8°31'E		34.1	34.1	.205+		33.724	5.05			46.480		296.13	2195.996	"
4 to 5	148°30'	S31°30'E		68.	68.	.31+		57.98	35.529			104.410		260.602	2196.306	"
5 to face	250°32'30"	S70°32'30"W		35.	35.	.21+		11.609		33.001		116.079		293.603	2196.516	Face No. 1 W X Cut
5 to 6	136°30'	S43°30'E		71.4	71.4	.44+		51.792	49.149			156.202		211.453	2196.746	"
6 to 7	67°32'	N67°32'E		39.1	39.1	.2+	14.942		36.142			141.260		175.31	2196.946	"
7 to 8	77°28'	N77°28'E		33.9	33.9	.18+	7.356		33.092			133.904		142.219	2197.126	Bottom of rise 30' left
6 to 9	142°31'	S37°29'E		32.6	32.6	.15+		25.879	19.838			182.081		191.615	2196.896	"
9 to face	250°30'	S70°30"W		20.	20.	.11+		6.676		18.853		188.757		210.468	2197.016	Face No. 2 W X Cut
9 to 10	141°29'	S38°31'E		20.	20.	.12+		15.649	12.455			197.730		179.160	2197.216	15.1' out to face
10 to 11	154°30'	S25°30'E		36.4	36.4	.20+		32.854	15.671			230.584		163.489	2197.216	"
11 to 12	78°31'	N78°31'E		16.2	16.2	.08+	3.225		15.886			227.359		147.603	2197.296	"
12 to 13	35°28'30"	S35°28'30"E		33.2	33.2	.13+	28.604		16.192			198.755		131.411	2197.426	17 ft out to face
13 to 14	67°30'30"	N67°30'30"E		24.	24.	.12+	9.1812		22.184			189.574		109.227	2197.546	"
14 to 15	64°29'	N64°29'E		77.	77.	.37+	33.169		69.489			156.405		39.738	2197.916	"
15 to 16	38°30'	N38°30'E		69.	69.	.34+	54.		42.953			102.405	3.215	2198.256		"
12 to 17	139°16'	N40°44'E		31.2	31.2	.17+		23.642	20.35			251.001		127.253	2197.466	"
17 to 18	92°	S88°E		11.9	11.9	.07+		0.415	11.893			251.416		115.360	2197.536	"
18 to 19	131°0'30"	S40°59'30"E		24.1	24.1	.12+		15.824	18.186			267.240		97.174	2197.656	"
19 to 20	165°30'	S14°30'E		12.	12.	.06+		11.628	3.005			276.868		94.169	2197.716	Face Rise up 38' over
17 to 21	262°59'30"	S22°59'30"W		31.2	31.2	.16+		3.807		30.977		254.808		158.229	2197.626	"
21 to 22	255°30'25"	S45°30'25"W		44.4	44.4	.251+		11.110		42.987		265.918		201.217	2197.876	Face 32 ft out from 22
17 to 23	160°29'30"	S19°30'30"E		151.	151.	.76+		142.382	50.426			393.433		76.827	2198.226	"
23 to 24	"	"	64°+	12.3	5.392	11.055+		5.082	1.801			398.415		75.026	2209.281	"
24 to 25	"	"	53°+	11.2	6.74	8.945+		6.354	2.251			404.769		72.775	2218.226	"
25 to 26	"	"	40°+	12.3	9.422	7.908+		8.881	3.146			413.650		69.629	2226.134	"
26 to 27	"	"	33°+	20.6	17.276	11.22+		16.295	5.769			429.945		63.860	2237.354	"
27 to 28	"	"	42°+	18.4	13.674	12.312+		12.899	4.566			442.844		59.294	2249.666	"
28 to 29	"	"	27°+	44.	39.204	19.975+		36.953	13.102			479.796		46.192	2269.641	"
C to 30	94°	S86°E		56.76	56.76	.2+		3.959	56.622			139.277		309.288	2258.199	"
30 to 31	95°	S87°E		28.2	28.2	.2+		1.458	28.161			140.735		281.127	2258.399	"
31 to 32	103°17'	S76°43'E		34.	34.	.31+		7.812	33.091			148.547		248.036	2258.709	"
32 to 33	33°	N33°E		29.	29.	.3+	24.321		15.794			124.226		232.242	2259.009	"
33 to 34	7°50'	N78°E		32.	32.	.29+	31.701		4.361			92.525		227.881	2259.299	"
32 to 35	181°2'	S1°2'W		16.	16.	.15+		16.		0.2884		164.547		248.324	2258.859	No. 1 X Cut
35 to 36	"	"		21.	21.	.12+		20.997		0.3787		185.544		248.703	2258.999	- 2 "
36 to 37	"	"		15.	15.	.1+		14.998		0.2705		200.542		248.973	2259.079	"
36 to 38	103°	S77°E		29.	29.	.1+		6.524	28.257			172.068		220.446	2259.079	Face of No. 2 X Cut
35 to 39	106°58'	S73°2'E		27.	27.	.12+		7.879	25.825			172.426		222.499	2258.979	" - No. 1 "
31 to 40	103°17'	S76°43'E		42.5	42.5	.26+		9.765	41.363			150.500		239.764	2258.659	Top of Wenge
40 to 48	"	"	90°-	10.0	10.0	-						150.500		239.764	2248.659	Down Wenge
40 to 41	82°10'	N82°10'E		26.3	26.3	5.7-	3.584		26.055			146.916		213.709	2243.159	"
41 to 42	177°30'	S2°30'E		34.5	34.5	7.4-		34.467	1.115			181.383		212.194	2235.759	"
42 to 43	160°58'	S19°2'E		14.2	14.2	2.9-		13.424	4.631			194.807		207.563	2232.859	"
43 to 44	124°01'	S55°59'E		33.	33.	7.24-		18.461	27.353			213.268		180.210	2225.619	"
44 to 45	237°30"	S57°03'30"W		40.	40.	.2+		21.781		33.55		235.049		213.760	2225.419	"
43 to 46	124°01'	S55°59'E		41.	41.	9.0-		22.937	33.984			217.844		173.579	2223.859	"
46 to 47	112°02'	S67°58'E		39.	39.	.0		14.631	36.152			232.475		137.427	2223.859	"
F to 48	129°30'	S50°30'E		40.	40.	.2+		25.443	30.865			437.171		109.349	2323.737	No. 1 Adit
48 to 49	122°35'	S57°25'E		261.	261.	3.1+		140.555	219.921			577.806	110.572	2326.837		
E to 50	109°40'	S70°20'E		45.	45.	.3+		22.273	39.101			637.268		254.659	2333.205	No. 1 "
50 to 51	114°	S66°E		100.05	100.05	1.1+		40.674	91.355			677.942		163.304	2334.305	"

Instruments used 5" Y Theodolite, Dumpy Level, & Hydro level in air

L. B. Alexander Taudcan
Aug 4th 1912. Manager