

PRINCETON MINE.

SURFACE:

There was practically no surface work done at the Princeton Mine, with the exception of the work necessary for loading out ore shipped from stockpile in the summer, until late in the Fall, when it was decided to change over the hoisting plant from the old engine house to the new engine house. This entailed moving the motor and electrical equipment and changing the hoisting ropes from the old hoist to the new. It was also necessary to lower the pulley stands as the new engine house is located about 60 feet nearer the shaft. In addition to the above work, the engine house was wired for lights and a brick chimney built. A heating stove was installed, so that the building could be heated. This work was completed early in December.

UNDERGROUND:

During the first four months of the year there was a mining captain and three timbermen working underground at the Princeton Mine on alternate days. When full time was resumed in June, the Captain took charge of operations at the Austin Mine, where he has since spent most of his time. Three timbermen have worked full time underground at the Princeton, as there has been a large amount of repair work necessary. The drift on 6th Level from No. 2 towards No. 1 shaft on Sections 18, 19 and 20, has been repaired during the year. The timber in about 300 feet of this drift had crushed to such an extent that it was necessary to install new timber. Some ore was obtained from this work, as well as rock. Considerable repairs have also been

necessary near No. 3 shaft territory on both the 5th and 6th levels.

When operations are resumed at this property it will be necessary to re-open the sub-levels, as it is impossible to keep them open when the mine is idle.

PRINCETON MINE

AVERAGE MINE ANALYSIS ON OUTPUT FOR YEAR 1922.

GRADE	IRON	PHOS.	SILICA	MANG.
Princeport,	(No Production)			
Cambridge,	61.89	.664	2.88	1.317

AVERAGE ANALYSIS ON STRAIGHT CARGOES FOR YEAR 1922.

GRADE	Mine			
	IRON	PHOS.	SILICA	MANG.
Princeport,	(No Shipments)			
Cambridge,	(All Mixed)			

ORE STATEMENT - DECEMBER 31ST, 1922.

	PRINCE- PORT	SEC. 19 PRINCE- PORT	CAMBRIDGE	SEC. 19 CAMBRIDGE	TOTAL	TOTAL LAST YEAR
On hand Jan. 1, 1922,	9,160	1,313	206,199	26,788	243,460	170,226
Output for Year,	-	-	74	-	74	97,150
Transferred,	-	-	3,005	3,005	-	-
Total,	9,160	1,313	209,278	23,783	243,534	267,376
Shipments,	-	-	26,145	-	26,145	23,916
Balance on Hand,	9,160	1,313	183,133	23,783	217,389	243,460
Decrease in Output,					97,076	
Decrease in Ore on Hand,					26,071	

1922 -- Mine Idle during Year.

1921 -- 1-8 Hour Shift, 6 days per week, Jan. 1st to March 26th, 1921.
 1-8 Hour Shift, 5 days per week, Mar. 26th to June 1st, 1921.
 1-4 Hour Shift, 6 days per week, June 1st to Aug. 26th, 1921.
 Mine closed Aug. 26th, 1921.

MADE IN U.S.A.

PRINCETON MINE
SHIPMENTS FOR YEAR 1922.

GRADE	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR
Princeport,	-	-	-	4,461
Sec. 19 Princeport,	-	-	-	607
Cambridge,	-	26,145	26,145	16,748
Sec. 19 Cambridge,	-	-	-	2,100
Total,	-	26,145	26,145	23,916
Total Last Year,	4,274	19,642	23,916	
Increase,			2,229	

Damascus
Bond
MADE IN U.S.A.

PRINCETON MINE

COMPARATIVE MINING COST FOR YEAR

	1 9 2 2	1 9 2 1	INCREASE	DECREASE
PRODUCT	74	97,150		
Underground Costs		1.862		
Surface Costs		.418		
General Mine Accounts		.223		
Cost of Production		2.503		
Original Cost		.316		
Plant Account		.053		
Uncompleted Construction		.015		
Taxes		.149		
Central Office		.080		
Contingent Expense		.009		
Idle Expense		.261		
Cost Adjustment		.103		
Cost on Stockpile		3.489		
Loading & Shipping		.019		
Total Cost on Cars		3.508		
No. Days Operating		189		
No. Shifts & Hours		1-8hr-115 1-4hr- 74		
Avg. Daily Product		514		
COST OF PRODUCTION				
Labor		1.581		
Supplies		.928		
Total		2.503		

NOTE: 1921 - 1-8hr 6 days a week to Mar.26;
 1-8hr 5 " " May 31;
 1-4hr 6 " " June 1 to Aug.27;
 Idle - Aug.28th to Dec.31st.
 1922 - Not operated.

PRINCETON MINE

COMPARATIVE WAGES AND PRODUCT

	1 9 2 2	1 9 2 1	INCREASE	DECREASE
Product	74	97,150		97,076
No. Shifts & Hours		1-8;1-4		
AVG. NO. MEN WORKING				
Surface	3	32		29
Underground	6	90		84
Total	9	122		113
AVG. WAGES PER DAY				
Surface	3.99	4.80		.91-19.%
Underground	4.55	5.37		.82-15.2%
Total	4.29	5.37		1.08-20%
WAGES PER MO. OF 25 DAYS				
Surface	99.75	120.00		20.25
Underground	113.75	139.25		25.50
Total	107.25	134.25		27.00
PRODUCT PER MAN PER DAY				
Surface		13.24		
Underground		4.73		
Total		3.48		
LABOR COST PER TON				
Surface		.362		
Underground		1.179		
Total		1.541		
AVG. PRODUCT BRK'G & TRM'G		7.46		
" WAGES CONTRACT MINERS		5.96		
" " "		5.96		
TOTAL NO. OF DAYS				
Surface	1,159 $\frac{1}{2}$	7333- $\frac{3}{4}$		6174 $\frac{1}{2}$
Underground	1,387 $\frac{1}{2}$	20544- $\frac{1}{2}$		19157
Total	2,546 $\frac{1}{2}$	27878		25331 $\frac{1}{2}$
AMOUNT FOR LABOR				
Surface	4628.70	35207.36		30578.66
Underground	6312.03	114506.03		108194.00
Total	10940.73	149713.39		138772.66

Proportion Surface to Underground Men:

1922 - 1 to 2.
 1921 - 1 to 2.81
 1920 - 1 to 3.1
 1919 - 1 to 4.63
 1918 - 1 to 3.48

1921
 1-8hr 6 days a week to Mar.26;
 1-8hr 5 " " May 31;
 1-4hr 6 " " June 1 to Aug.27;
 Idle Aug.28th to Dec.31st.

1922.
 Not operating.