

PRINCETON MINE

The Princeton Mine closed down August 27th, 1921, and has been idle since. The mine pumps have continued to operate, and the main levels have been kept in repair. Operations can be resumed at this property on comparatively short notice. It should be borne in mind, however, that alterations to the head-frame should be made prior to re-opening. This involves raising it so that two skips can operate in balance, which will permit of an increased production at a lower cost.

The shipments for the year and balance of ore in stock are as follows:-

	<u>SHIPMENTS</u>	<u>IN STOCK</u> <u>DEC. 31, 1924</u>
Princeport,		9,160 tons
Sec. 19 Princeport,		1,313 "
Cambridge,	7,453 tons	153,842 "
Sec. 19 Cambridge,	<u>0</u>	<u>19,979 "</u>
Total,	7,453 "	184,294 "

A considerable quantity of the ore shipped was loaded one car at a time for all-rail shipments. A bucket and double-drum puffer was used for loading. In December, after the district crusher closed down for the season, several cars were loaded by hand over a grizzly, all chunks being broken to 2-1/2" size.

This year the estimated tonnage in the mine is again included, being sub-divided as required by the Tax Commission. (Includes ore on Sections 20 and 18, Princeton property and ore on C. & N. W. Ry. Co. Lease, Section 19).

Non-Bessemer Ore:

Developed.	1. Sec. 20 Princeport,	72,552 tons
	2. " " Cambridge,	562,161 "
	1. Sec. 18 Princeport,	10,318 "
	1. C&NW Lease Sec. 19 Princeport,	9,000 "
	2. " " " Cambridge,	<u>57,128 "</u>
	Total Developed,	711,159 tons.

Total Developed Ore, brought forward, 711,159 tons.

Non-Bessemer:

Prospective.	1. Sec. 20 Princeport,	20,000 tons
	2. " " Cambridge,	418,815 "
	1. C&NW Lease Sec.19 Princeport	5,000 "
	2. " " " Cambridge,	<u>46,921</u> "
	Total Prospective,	<u>490,736</u> "
	GRAND TOTAL,	1,201,895 "

The following is a detail of the repair work done on the main levels during 1924:

The first three months of 1924 were spent in repairing the first crosscut North of No. 3 Shaft, on the 6th Level. It was cleaned and the bottom lowered to grade; seventeed new sets of timber, fifteen sills and twenty-seven props installed. The arkose caved from the back and considerable rock had to be removed when the new sets were installed.

During the month of April the footwall drift Southwest of No. 3 Shaft on the 6th Level was repaired, fifteen new sets of timber being installed and lagging placed on the sides and back of old sets.

During the month of May the 6th Level haulage drift towards No. 1 Shaft, on Sections 19 and 20, was repaired, nine legs and sixteen sets of timber being installed.

In June and July, the 5th Level haulage and footwall drift, North and West of No. 3 Shaft, was repaired, thirty-seven new sets of timber being installed.

During August and September No. 3 crosscut West of No. 3 Shaft on the 5th Level was repaired. The bottom of the crosscut was lowered to grade and thirteen new sets of timber installed.

In October, repair work was continued on the 5th Level near No. 3 Shaft, nine lining sets, six new sets and one leg being installed.

During November, four new sets of timber were installed in the East haulage drift on the 5th Level near No. 3 Shaft and seven sets in the footwall

drift North of No. 3 Shaft on the 6th Level. Both of these drifts were also cleaned.

In December work was done at a number of points on the 5th and 6th Levels, where sets had broken down. During this month twenty new sets of timber were installed, eleven broken legs replaced, four props and one cap installed.

A summary of the work is shown by the following table:-

		<u>SETS OF TIMBER</u>	<u>LEGS</u>	<u>PROPS</u>	<u>CAPS</u>	<u>SILLS</u>
January,)					
February,)	17		27		15
March,)					
April,		15				
May,		16	9			
June,)					
July,)	37				
August,		10				
September,		3				
October,		15	1			
November,		11				
December,		20	11	4	1	
Total,		144	21	31	1	15

In addition to the mining captain there were four men employed underground on repair work from January 1st to October 1st; three men, October 1st to December 31st. One timberman was injured on October 1st, and has not yet returned to work.

PRINCETON MINE

AVERAGE MINE ANALYSIS ON OUTPUT FOR YEAR 1924.

GRADE	IRON	PHOS.	SILICA	MANG.
Princeport,		(No Production)		
Cambridge,		(No Production)		

AVERAGE ANALYSIS ON STRAIGHT CARGOES FOR YEAR 1924.

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

ORE STATEMENT - DECEMBER 31ST, 1924.

	PRINCE- PORT	SEC. 19 PRINCE- PORT	CAMBRIDGE	SEC. 19 CAMBRIDGE	TOTAL	TOTAL LAST YEAR
On Hand Jan. 1, 1924,	9,160	1,313	160,438	20,836	191,747	217,389
Output for Year,	-	-	-	-	-	-
Transferred,	-	-	857	857	-	-
Total,	9,160	1,313	161,295	19,979	191,747	217,389
Shipments,	-	-	7,453	-	7,453	25,642
Balance on Hand,	9,160	1,313	153,842	19,979	184,294	191,747
Decrease in Ore on Hand,					7,453	

1924 -- Mine Idle during Year.

1923 -- Mine Idle during Year.

PRINCETON MINE

SHIPMENTS FOR YEAR-1924.

GRADE	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR
Princeport,	-	-	-	-
Sec. 19 Princeport,	-	-	-	-
Cambridge,	-	7,453	7,453	25,642
Sec. 19 Cambridge,	-	-	-	-
Total,	-	7,453	7,453	25,642
Total Last Year,	-	25,642	25,642	
Decrease,			18,189	

PRINCETON MINE

COMPARATIVE WAGES AND PRODUCT

	1 9 2 4	1 9 2 3	INCREASE	DECREASE
PRODUCT	-	-		
No.Shifts & Hours				
AVG.NO.MEN WORKING				
Surface	3	3		
Underground	6	4	2	
Total	9	7	2	
AVG.WAGES PER DAY				
Surface	4.81	4.55	.26-5.71%	
Underground	4.98	4.83	.15-3.10%	
Total	4.91	4.70	.21-4.47%	
WAGES PER MO. of 25 DAYS				
Surface	120.25	118.75	6.50	
Underground	124.50	120.75	3.75	
Total	122.75	117.50	5.25	
PRODUCT PER MAN PER DAY				
Surface				
Underground				
Total				
LABOR COST PER TON				
Surface				
Underground				
Total				
AVG.PRODUCT BRK'G & TRM'G " WAGES CONTRACT MINERS				
TOTAL NO.DAYS				
Surface	1,095	1,138½		43½
Underground	1,667½	1,400½	267	
Total	2762½	2,539	223½	
AMOUNT FOR LABOR				
Surface	5272.89	5185.02	87.87	
Underground	8307.04	6764.81	1542.23	
Total	13579.93	11949.83	1630.10	

Proportion Surface to Underground Men:

1924 - 1 to 2.
 1923 - 1 to 1.33
 1922 - 1 to 2.
 1921 - 1 to 2.81
 1920 - 1 to 3.1
 1919 - 1 to 4.69
 1918 - 1 to 3.48