

AUSTIN MINE

The Austin Mine was not operated in 1920. All Bessemer ore in stock was shipped during the year.

The ore statement for the year 1920 is as follows:

	<u>AUSTIN BESSEMER</u>	<u>AUSTIN</u>	<u>AUSTINPORT</u>	<u>TOTAL</u>
On hand Jan. 1st, 1920	3,592	0	8,970	12,562
Output for year,	0	0	0	0
Transfer,	434	434		
Overrun,	73			73
TOTAL,	3,231	434	8,970	12,635
Shipments,	3,231	434	0	3,665
In stock Jan. 1st, 1921	0	0	8,970	8,970

The ore in sight at the Austin Mine on December 31st, 1920 is as follows:

	<u>AUSTIN BESSEMER</u>	<u>AUSTIN</u>	<u>AUSTINPORT</u>	<u>TOTAL</u>
Above 1st Level,	12,000	3,000	9,416	24,416
" 2nd "	36,800	5,251	20,700	62,751
" 3rd "	28,600	4,100	16,326	49,026
" 4th "	9,600	1,623	5,550	16,773
" 5th "	3,180	562	1,860	5,602
TOTAL TONS,	90,180	14,536	53,852	158,568

This is the same estimate as was submitted in last years report; there has been no changes, due to the fact that the mine was not operated during 1920.

Estimated tonnage in the mine, sub-divided as required by the Tax Commission:

	<u>AUSTIN BESSEMER</u>	<u>AUSTIN</u>	<u>AUSTINPORT</u>	<u>TOTAL</u>
Bessemer Ore:				
1. Developed,	90,180			
2. Prospective				
Non-Bessemer Ore:				
1. Developed,		14,536		
2.			53,852	
1. Prospective				
2.				
TOTAL,				158,568

AUSTIN SURFACE

Owing to the shortage of mine timber at the Princeton and Stephenson Mines during the past several months it has been necessary to cut up the greater part of the timber in stock at the Austin Mine. This, however, was advisable from the fact that it was not at all certain that the property would operate during the coming year, and unless the timber was used it would undoubtedly, within another year, deteriorate very materially.

It was necessary to dismantle the Bessemer ore trestle in order to permit of shipping out the ore. The trestle was not re-erected, as it is not probable that this property will operate again in the winter.

Some repairs have been made to the old Austin boiler house, to enable it to be used as a storehouse.

The land occupied by the Austin Location, the Assistant Superintendent's residence and the several location boarding houses was purchased by The Cleveland-Cliffs Iron Company in 1920, from the Escanaba River Land & Iron Company. This will permit of several needed improvements being made which were not justified as long as there was a question of moving or abandoning the location on the completion of mining operations at the Austin Mine.

AUSTIN MINE

ORE STATEMENT DECEMBER 31, 1920.

	AUSTINPORT	AUSTIN BESSEMER	AUSTIN	TOTAL	TOTAL LAST YEAR
On hand Jan. 1, 1920,	8,970	3,592	0	12,562	
Output for year,	0	0	0	0	14,896
Transferred,		434	434		
Overrun,		73		73	
Total,	8,970	3,231	434	12,635	14,896
Shipments,	0	3,231	434	3,665	2,334
Balance on hand,	8,970	0	0	8,970	12,562
Decrease in output-100%				14,896	
Decrease in ore on hand				3,592	
1920 - Idle during year					
1919 - 1-8 Hour Shift Sept. 1st to Dec. 20, 1919.					

SHIPMENTS FOR YEAR 1920.

GRADE	STOCKPILE	TOTAL	TOTAL LAST YEAR
Austin Bessemer,	3,231	3,231	
Austin,	434	434	39
Austinport,			2,295
Total,	3,665	3,665	2,334
Total last year,		2,334	
Increase - 57%		1,331	

AUSTIN MINE.

AUSTIN MINE.

COMPARATIVE MINING COST FOR YEAR.

	1 9 2 0.	1 9 1 9.	INCREASE.	DECREASE.
PRODUCT	73	14,869		
General Expense		.368		
Maintenance		.464		
Mining Expense		2.578		
Cost of Production		3.410		
<u>DEPRECIATION.</u>		-		
Taxes		.146		
Central Office		.085		
Miscellaneous		.004		
Sundry Expense		.011		
Cost on Stockpile		3.656		
Loading & Shipping		.032		
Total Cost on Cars		3.656		
<u>COST OF PRODUCTION.</u>				
Labor		2.492		
Supplies		.918		
Total		3.410		
No. Days Operating		112		
No. Shifts & Hours		1-8hr		
Avg. Daily Product		133		

Mine closed account of flood in 1918; started production again August, 1919. Production ceased December 31, 1919, for balance of winter. Did not operate during 1920; shipped 3665 tons from stockpile.

AUSTIN MINE
COMPARATIVE WAGES AND PRODUCT

	1920	1919	INCREASE	DECREASE
PRODUCT	73	14,869		
No.Shifts and Hours		1-8hr		
AVERAGE NO.MEN WORKING				
Surface	2	7		
Underground		15		
Total	2	22		
AVERAGE WAGES PER DAY				
Surface	5.27	4.88		
Underground		5.90		
Total	5.27	5.58		
WAGES PER MONTH OF 25 DAYS				
Surface		122.00		
Underground		147.50		
Total		139.50		
PRODUCT PER MAN PER DAY				
Surface		7.25		
Underground		3.34		
Total		3.29		
LABOR COST PER TON				
Surface		.673		
Underground		1.767		
Total		2.440		
AVG. PRODUCT BRK'G & TRM'G		6.29		
" WAGES CONTRACT MINERS		5.90		
" " " TRAMMERS		5.04		
" " " LABOR		6.13		
TOTAL NUMBER OF DAYS				
Surface	506½	2,056¼		
Underground		4,461½		
Total	506½	6,517¾		
AMOUNT FOR LABOR				
Surface	2670.16	10,034.05		
Underground		26,319.37		
Total	2670.16	36,353.42		

Proportion Surface to Underground Men:
1919 - 1 to 2.1
1918 - 1 to 3.2

Not producing in 1918 on account of flood. Started production on small scale again in August, 1919. Closed again Dec.31, 1919. Not operated during 1920.