

WADE MINE
ANNUAL REPORT FOR 1925.

No mining activities of any nature were undertaken at the Wade Mine during the year 1925. The Helmer Mine lease was relinquished early in the year, all the pit and other Helmer equipment having been moved onto the Wade property prior to the termination of our Helmer lease.

One cargo of Wade stockpile ore was shipped the latter part of April. Following is the analysis of the 5,009 tons of Wade stockpile ore, which was shipped in the PETER WHITE April 30th, as obtained from the Mine and Lower Lake sampling:

	<u>FE.</u>	<u>PHOS</u>	<u>SIL.</u>	<u>MN.</u>	<u>MOIS.</u>	<u>FE.NAT.</u>
Mine-----	56.97	.065	7.75	1.42	12.15	-----
Lower Lake-----	56.75	---	----	----	12.53	49.64

A composite sample of the Wade Mine shipments for 1925 shows the following results:

	<u>FE.</u>	<u>PHOS</u>	<u>MN.</u>	<u>SIL.</u>	<u>ALUMINA.</u>	<u>LIME</u>	<u>MAGNESIA</u>	<u>SULPHUR</u>	<u>LOSS</u>
Wade Ore-----	56.97	.064	1.40	7.60	1.80	1.12	.41	.014	5.28

Following is the tonnage and analysis of the ore remaining in stock at the Wade Mine January 1st., 1926:

	<u>TONS</u>	<u>FE.</u>	<u>PHOS</u>	<u>MN.</u>	<u>SIL.</u>
Wade Ore-----	26,205	57.22	.064	1.27	7.50

WADE MINE ORE ESTIMATE OF JANUARY 1ST. 1926

No ore has been mined from the Wade property during the past four years, nor has any exploratory work been undertaken. The estimates, therefore, remain the same as they were January 1st. 1922. The ore estimates are based on a factor of 13 cubic feet per ton, with a 10% deduction to cover mining loss in the case of the underground ore.

The tonnage and average grade of ore in the several Wade deposits on January 1st., 1926, follows:

	<u>TONS.</u>	<u>FE.</u>	<u>PHOS</u>	<u>MN.</u>	<u>SIL.</u>	<u>MOIS.</u>
West Deposit-----	1,365,000	57.90	.074	1.05	6.79	13.25
East Deposit-----	1,515,000	56.91	.075	1.83	7.44	13.50
Deacon Deposit-----	80,000	56.65	.045	1.16	8.04	12.50
Deacon Deposit-----	95,000	55.77	.053	.42	8.43	12.50

Following are the tonnages and grades of ore in the West Deposit above and below the main haulageway:

	<u>TONS.</u>	<u>FE.</u>	<u>PHOS</u>	<u>MN.</u>	<u>SIL.</u>
Above Main Level-----	1,179,000	57.85	.074	1.33	6.40
Below Main Level-----	186,000	58.11	.073	.74	7.03

The total ore by forty acre tracts as of January 1st., 1926, is as follows:

	<u>TONS.</u>
SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 12, 58-19-----	305,000 Non-Bessemer.
NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of " 13, 58-19-----	1,305,000 " "
NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of " 13, 58-19-----	80,000 Bessemer.
NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of " 13, 58-19-----	1,365,000 Non-Bessemer.

Of the ore remaining in the Wade Mine, 561,000 tons will be mined by the open pit method and 2,494,000 tons from underground operations.

ESTIMATE OF PRODUCTION FOR 1926

The estimate of production at the Wade Mine for 1926 is based on the assumption that orders to resume underground operations are received February 1st., and the opening and repair work is started immediately thereafter. The period of production is considered from February 1st., to November 15th:

	<u>TONS</u>	<u>FE.</u>	<u>PHOS</u>	<u>MN.</u>	<u>SIL.</u>	<u>MOIS.</u>
Wade Open Pit Ore-----	50,000	58.50	.060	.70	8.05	12.50
Wade Underground Ore----	<u>92,000</u>	<u>56.77</u>	<u>.064</u>	<u>1.43</u>	<u>7.49</u>	<u>12.50</u>
TOTAL AND AVERAGES-----	142,000	57.38	.063	1.17	7.69	12.50

For each month that orders to reopen the Wade Mine are delayed, 12,000 tons should be deducted from the underground production. It will take us about two months to open the mine and get the crew organized, before we can realize an output of 12,000 tons per month.

Our open pit production of 50,000 tons is based on mining only the tonnage available without any additional stripping, except for a small amount of hand work in dragging back material that has washed onto the cleaned area. Before any open pit ore can be mined, a new incline tramway will have to be constructed on Wade land and the shaft house and hoisting equipment moved onto the Wade property, unless satisfactory arrangements could be made with the State, for the use of the Helmer pit in connection with the Wade open pit operations. Provided it seems desirable to mine more than 50,000 tons of Wade open pit ore during 1926, it would be necessary to do some additional stripping to make a larger tonnage available.

The lease of the Helmer Mine has not as yet gone back to the State, but no doubt it will during the early part of 1926, as we have notified the parties who now hold the lease from the State, that we would not be interested in sub-leasing from them and it is very doubtful whether they would be able to interest any other mining company.

GENERAL

A force of six men was employed regularly at the Wade Mine during 1925, consisting of a Captain, clerk, three pumpmen and a night watchman. The property was patrolled during the past year and no irregularities of any kind were reported.

There were no accidents at the Wade Mine during 1925.

Monthly inspections were made of the Wade Mine underground workings. The timber throughout the mine is steadily deteriorating and it will be necessary to do considerable repair work before mining activities can be resumed. The timber is broken down in several places and it is now impossible to go into all the working places on the sub-levels.

Captain Wivell, assisted by one of the other employees, has done some repair work in the raises and also on the main level, in the vicinity of the chutes.

The timber, which we have on hand at the Wade Mine, would not be desirable for repair work. This timber has stood in the yards for several years and the life is gone from it. When repairs are started underground at the Wade, we will have to secure a good grade of timber, to safeguard our operations. We have a quantity of cedar lagging at the Wade Mine, which can be used to advantage when we resume underground operations.

Three pumpmen were employed on 8-hour shifts during 1925. With the exception of some flood water from the heavy rains during the early spring, pumping conditions were normal throughout the year. The snow and ice in the pit melted very gradually and there was not a perceptible increase in the volume of water handled during this period. The only repairs made on the pumping equipment during the past year were of a minor character.

HELMER-WADE MINE

AVERAGE MINE ANALYSIS ON OUTPUT FOR YEAR 1925.

GRADE	IRON	PHOS.	SILICA	MANG.	MOIST.
Helmer,			(No Production)		
Wade,			(No Production)		

AVERAGE ANALYSIS ON STRAIGHT CARGOES FOR YEAR 1925.

GRADE	IRON	PHOS.	Mine			Lake Erie	
			SILICA	MANG.	MOIST.	IRON	MOIST.
Helmer,			(No Shipments)				
Wade,	56.97	.065	7.75	1.42	12.16	56.75	12.53

ORE STATEMENT - DECEMBER 31ST, 1925.

	HELMER	WADE	TOTAL	TOTAL LAST YEAR
On hand January 1, 1925,	-	30,214	30,214	58,576
Output for Year,	-	-	-	21,469
Stockpile Overrun,	-	-	-	488
Total,	-	30,214	30,214	80,533
Shipments,	-	5,009	5,009	50,319
Balance on Hand,	-	25,205	25,205	30,214
Decrease in Output,			21,957	
Decrease in Ore on Hand,			5,009	

1925 -- Mine Idle during Year.

1924 -- Mine Idle Jan. 1st to Sept. 8th, 1924.
 1-10 Hr. Shift, Sept. 8th to Oct. 23rd, 1924.
 Mine Idle Oct. 24th to Dec. 31st, 1924.

HELMER-WADE MINE
SHIPMENTS FOR YEAR-1925.

GRADE	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR
Helmer,	-	-	-	38,641
Wade,	-	5,009	5,009	11,678
Total,	-	5,009	5,009	50,319
Total Last Year,			50,319	
Decrease,			45,310	

WADE-HELMER MINE

COMPARATIVE WAGES AND PRODUCT

	1 9 2 5	1 9 2 4	INCREASE	DECREASE
PRODUCT	0	21,957		21,957
No.Hours & Shifts				
AVG.NO.MEN WORKING				
Surface	2	9		7
Underground	4	8		4
Total	6	17		11
AVG.WAGES PER DAY				
Surface	6.06	4.94	1.12	
Underground	5.14	5.21		.07
Total	5.46	5.07	.39	
WAGES PER MO. OF 25 DAYS				
Surface	151.50	123.50	28.00	
Underground	128.50	130.25		1.75
Total	136.50	126.75	9.75	
PRODUCT PER MAN PER DAY				
Surface		7.59		7.59
Underground		7.77		7.77
Total		3.84		3.84
LABOR COST PER TON				
Surface		.650		.650
Underground		.671		.671
Total		1.321		1.321
AVG.PRODUCT BRK'G & TRM'G				
" WAGES CONTRACT MINERS				
" " " TRIMMERS				
TOTAL NO. OF DAYS				
Surface	764-3/4	2891		2126 1/4
Underground	1441	2824		1383
Total	2205-3/4	5715		3509 1/4
AMOUNT FOR LABOR				
Surface	4636.52	14282.76		9646.24
Underground	7402.26	14723.52		7321.26
Total	12038.78	29006.28		16967.50

Proportion of Surface to Underground Men:

1925 - 1 to 2
 1924 - 1 to .88
 1923 - 1 to 1
 1922 - 1 to 2.50
 1921 - 1 to 3.92
 1920 - 1 to 2.84
 1919 - 1 to 3.14

1924 - Pit operations during months of Sept. and Oct.
 1925 - Mine Idle.