

SOUTH JACKSON MINE - 1924.

The product for the year was 33,262 tons.

Operations started at the pit on April 18th. The first loading was along the North edge. Here the analyses ran low and this section of the pit was abandoned and the shovel moved to the West side where loading continued until the pit was shut down on June 16th. On August 30th, loading was again started and continued until September 28th. This ore also came from the West side of the pit.

A dinky engine for spotting cars was rented for the season from the Republic Iron & Steel Company as the regular South Jackson engine was in use at the new hoist dam.

When mining operations closed down the last of September, the shovel crew and drillers spent the first week in October lowering the approach to the pit.

TUNNEL LEVEL.

Four years ago, a drift was driven on the tunnel level from the shaft to the South and East toward the Lucy workings. During the past summer a branch was driven 80' South from this drift and a raise 56' high put through to surface. This will drain the bottom of the pit and permit loading early in the season if it is necessary.

During the past few years the tonnage mined has been very small which increases the cost per ton as there is always a certain amount of dead work in opening and closing an operation - even an open pit. My estimates of the season's output for the past several years has been placed at 70,000 tons. If a larger product is desired, it could be mined, but additional equipment would be required. A revolving type, electric operated, caterpillar tread shovel would be ideal in this pit and would cut down the loading cost very materially.

DELAYS.

On April 28th, a rail turned over derailing four railroad cars. Two days were spent in cleaning up the wreck and repairing the track.

ESTIMATE OF ORE RESERVES OF DECEMBER 31, 1924.

Above present pit available by present system of mining:

On Southwest side - - - - -	35,000 tons,
North of Lucy Pit - - - - -	5,000 "
South and Southwest of Lucy Pit - - - - -	<u>3,000 "</u>
Total -	43,000 tons.

Below present pit and above drainage tunnel available by milling:

West of Crusher - - - - -	186,000 tons
Area below bottom of present pit shown by churn drilling - - - - -	<u>105,226 "</u>
Total -	291,226 tons.

GRAND TOTAL - 334,226 tons.

ANALYSIS

	<u>IRON</u>	<u>PHOS.</u>	<u>SILICA</u>	<u>MANG.</u>	<u>ALUM.</u>	<u>LIME</u>	<u>MAG.</u>	<u>SUL.</u>	<u>IGNI.</u>	<u>MOIST.</u>
Natural	34.55	.066	36.00	2.00	1.42	.435	.175	.010	2.00	7.00

SOUTH JACKSON MINE

AVERAGE MINE ANALYSIS ON OUTPUT FOR YEAR 1924.

GRADE	IRON	PHOS.	SILICA	MANG.
South Jackson	36.47	.046	40.69	1.95

AVERAGE ANALYSIS ON STRAIGHT CARGOES FOR YEAR 1924.

GRADE	Mine				Lake Erie		
	IRON	PHOS.	SILICA	MANG.	IRON	MOIST.	MANG.
South Jackson	37.16	.056	39.67	1.86	37.17	6.85	2.44

ORE STATEMENT AND SHIPMENTS FOR YEAR 1924.

	YEAR	LAST YEAR
Output for Year,	33,262	12,812
Shipments,	33,262	12,812
Balance on Hand,	-	-
Increase in Output,	20,450	
Increase in Shipments,	20,450	

- 1924 -- Mine Idle Jan. 1st to Apr. 24th, 1924.
 1-9 Hour Shift, Apr. 24th to June 16th, 1924.
 Mine Idle June 16th to Aug. 30th, 1924.
 1-9 Hour Shift, Sept. 1st to Sept. 26th, 1924.
 Mine Idle Sept. 27th, to Dec. 31st, 1924.
- 1923 -- Mine Idle Jan. 1st to May 28th, 1923.
 1-8 Hour Shift, May 29th to July 2nd, 1923.
 Mine Idle July 3rd to Dec. 31st, 1923.

SOUTH JACKSON MINE

COMPARATIVE MINING COST FOR YEAR

	1924	1923	INCREASE	DECREASE
PRODUCT	33,262	12,812	20,450	
Open Pit Costs	.418	.521		.103
General Mine Accounts	.022	.034		.012
Cost of Production	.440	.555		.115
Original Cost	.803	.803		
Taxes	.160	.354		.194
Central Office	.014	.013	.001	
Contingent Expense	.002	.002		
Cost Adjustment	.011	.033		.022
Winter Expense	.047	.163		.116
Total Cost on Cars	1.477	1.923		.446
No. Days Operating	64	28	36	
No. Hours & Shifts	1-9	1-10		
Avg. Daily Product	520	548		28
<u>COST OF PRODUCTION</u>				
Labor	.213	.265		.052
Supplies	.227	.290		.063
Total	.440	.555		.115

SOUTH JACKSON MINE

COMPARATIVE WAGES AND PRODUCT

	1 9 2 4	1 9 2 3	INCREASE	DECREASE
PRODUCT	32,262	12,812	20,450	
No.Shifts & Hours	1-9hr	1-10hr		
AVG.NO.MEN WORKING				
Surface	0	1 $\frac{1}{2}$		1 $\frac{1}{2}$
Underground (Pit)	4	8 $\frac{1}{2}$		4 $\frac{1}{2}$
Total	4	10		6
AVG.WAGES PER DAY				
Surface	4.51	4.91		.40-8.14%
Underground	5.02	4.93	.09-1.82%	
Total	4.98	4.93	.05-1.01%	
WAGES PER MO.OF 25 DAYS				
Surface	112.75	122.75		10.00
Underground	125.50	123.25	2.25	
Total	124.50	123.25	1.25	
PRODUCT PER MAN PER DAY				
Surface	378.00	453.54		75.54
Underground	31.57	26.50	5.07	
Total	29.13	25.03	4.10	
LABOR COST PER TON				
Surface	.012	.011	.001	
Underground	.159	.186		.027
Total	.171	.197		.026
TOTAL NO.OF DAYS				
Surface	88	28-1/4	59-3/4	
Underground	1053-3/4	483-1/2	570-1/4	
Total	1141-3/4	511-3/4	630	
AMOUNT FOR LABOR				
Surface	397.31	138.80	258.51	
Underground	5289.98	2385.58	2904.40	
Total	5687.29	2524.38	3162.91	

1923 - Mine only operated 28 days; from May 29th to July 2nd.
 1924 - " " April 24th to Sept.30th.