

ANNUAL REPORT
OF THE
SALISBURY MINE

(1923)

PRODUCTION AND SHIPMENTS

The Salisbury Mine remained closed throughout the year, but late in November preparations were started for reopening the mine, and in December most of the drifts were cleaned out, and 264 tons of Silica ore and 502 tons of rock were hoisted.

All the Clinton and Clinton Silica ore in stock was shipped except about 300 tons scattered along the base of the bluff on the south side of the stock-pile grounds.

TABLE I

STOCK-PILE SHIPMENTS

Grade	Tons
Clinton	24,419
Clinton Silica	<u>2,768</u>
Total	27,187
Shortage	1,853

TABLE II

STOCK-PILE BALANCES, DEC. 31, 1923.

Grade	1923	1922
	Tons	Tons
Clinton		27,413
Clinton Silica	<u>264</u>	<u>1,627</u>
Total	264	29,040

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TABLE III

ESTIMATE OF ORE RESERVES.

DEVELOPED ORE.

Level	Bessemer Tons	Clinton Tons	Clinton Silica Tons	Total Tons
4			4,000	4,000
5			4,000	4,000
8		3,500	16,500	20,000
9		2,500	9,000	11,500
10		5,500	14,500	20,000
11		4,500	11,000	15,500
12		7,000	7,000	14,000
13		8,500		8,500
14	5,000	22,500		27,500
16	<u>3,000</u>	<u>11,000</u>	<u>9,000</u>	<u>23,000</u>
Total	8,000	65,000	75,000	148,000
Less 10% Rock and 10% Loss in Mining	<u>1,500</u>	<u>13,000</u>	<u>15,000</u>	<u>29,500</u>
Net Total	6,500	52,000	60,000	118,500

Factors Used;- Bessemer and Clinton in place:- 12 cu. ft.

- Silica;- 13-15 cu. ft. per ton.

The estimate is the same as in 1922.

LABOR

Wages were increased 10% on May 1.

PREPARATIONS FOR REOPENING MINE.

SURFACE.

COAL-DOCK.

The coal tunnel was cleaned out, and the pocket under the tunnel was repaired, new bents were erected under the stringers of the coal-dock approach, new legs and braces were erected in the coal-dock itself, and the track and the turn-sheave at the end were repaired. The trestle leading to the boiler-

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house was also repaired. Twenty cars of coal were then dumped in the dock.

HOISTING EQUIPMENT

The turn sheaves and high pulley-stands were repaired, straightened and braced, the sheaves in the shaft-house were straightened, a new rope was put on the skip, and the bell-wires were renewed.

DRY

The windows and doors in the dry were repaired, and two wash-troughs were brought over from the Lake Mine, and erected in place of the old wooden troughs which had gone to pieces.

AIR-COMPRESSOR

The air-compressor was re-assembled and tried out, but a number of leaky tubes were found in the intercooler, and these were repaired.

A six-inch pipe-line was laid from the Angeline Mine to the Salisbury engine-house, using pipe from the Lake and Cliffs Shaft Mines, so that air can be obtained from the Holmes Mine on day-shift.

SHAFT-HOUSE

The shaft-house was in bad condition on the outside, especially on the south side, and it was necessary to build a heavy frame-work just inside the old timbers to catch up the landing-floor and the skip-dump, which, being inclosed, had not suffered much from decay. The pockets will also have to be renewed.

TRESTLES

Two bents were erected on each of the Clinton and Clinton Silica trestles, and the railing on the permanent trestles was renewed.

EQUIPMENT

Two new timber-hoists and a scraper-hoist were purchased, and two scrapers are being made by the Holmes Mine.

A 3-ton storage battery locomotive was also purchased, and was received and sent underground on December 27.

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UNDERGROUND

The sheaves at the knuckle in the shaft were found to be out of line, and these were straightened, and some repairs made to the timbering. The rest of the shaft was in good condition.

The fifth, eighth and twelfth levels were pretty well filled with rock and ore, where they had been repaired, and have been cleaned out. Some of the ladderways were rotten also, and had to be renewed.

The fourteenth level was not in bad shape, but has been cleaned out and some new switches and ties were put in the track to make it better for the locomotive.

LOCATION

During the summer and fall new wire fences were built around the house-lots on East Terrace Street and the other fences in the location were repaired using material from the best of the fences that were torn down.

EXPLORATION. SURFACE DIAMOND DRILLING.

Hole No. 70 was started south of the old open pit east of the pump-house, but the drill went into diorite at ledge, and is still in the same material. This hole is down 128 feet.

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AVERAGE MINE ANALYSIS ON OUTPUT FOR YEAR 1923.

GRADE	IRON	PHOS.	SILICA
Salisbury Bessemer,	(No Production)		
Clinton,	(No Production)		
Clinton Silica,	51.58	.113	14.74

AVERAGE ANALYSIS ON STRAIGHT CARGOES FOR YEAR 1923.

GRADE	Mine IRON	PHOS.	SILICA	Lake Erie IRON	MOIST.
Salisbury Bessemer,	(No Shipments)				
Clinton,	(All Mixed)				
Clinton Silica,	(All Mixed)				

ORE STATEMENT - DECEMBER 31ST, 1923.

	SALISBURY BESSEMER	CLINTON	CLINTON SILICA	TOTAL	TOTAL LAST YEAR
On hand January 1, 1923,	-	27,413	1,627	29,040	61,013
Output for Year,	-	-	264	264	-
Transferred,	-	2,994	2,994	-	-
Stockpile Overruns and Shortages,	-	-	1,853	1,853	7,249
Total,	-	24,419	3,032	27,451	53,764
Shipments,	-	24,419	2,768	27,187	24,724
Balance on Hand,	-	-	264	264	29,040
Increase in Output,				5,660	
Decrease in Ore on Hand,				28,776	
1923 -- Mine Idle.					
1922 -- Mine Idle.					

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SHIPMENTS FOR YEAR-1923

GRADE	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR
Salisbury Bessemer,	-	-	-	254
Clinton,	-	24,419	24,419	2,404
Clinton Silica,	-	2,768	2,768	22,066
Total,	-	27,187	27,187	24,724
Total Last Year,	-	24,724	24,724	
Increase,			2,463	

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COMPARATIVE WAGES AND PRODUCT

	1 9 2 3	1 9 2 2	INCREASE	DECREASE
PRODUCT	1,589	7,249	5,660	
No.Shifts & Hours				
AVG.NO.MEN WORKING				
Surface	5	5		
Underground	6	8		2
Total	11	13		2
AVG.WAGES PER DAY				
Surface	4.39	3.70	.69-18.65%	
Underground	4.91	4.27	.64-14.9%	
Total	4.67	4.05	.62-15.3%	
WAGES PER MO. OF 25 DAYS				
Surface	109.75	92.50	17.25	
Underground	122.75	106.75	16.00	
Total	116.75	101.50	15.25	
PRODUCT PER MAN PER DAY				
Surface				
Underground				
Total				
LABOR COST PER TON				
Surface				
Underground				
Total				
AVG.PRODUCT BRK'G & TRM'G				
" WAGES CONTRACT MINERS				
" " " TRAMMERS				
TOTAL NO.OF DAYS				
Surface	1,542	1,282	260	
Underground	1,851	2,008		157
Total	3,393	3,290	103	
AMOUNT FOR LABOR				
Surface	6770.34	4743.08	2027.26	
Underground	9087.00	8567.48	519.52	
Total	15857.34	13310.56	2546.78	

NOTE: Mine idle only 1922 and 1923.

Proportion Surface to Underground Men;

1923 - 1 to 1.2

1922 - 1 to 1.66

1921 - 1 to 2.55

1920 - 1 to 3.7

1919 - 1 to 3.23

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