

REPUBLIC MINE
ANNUAL REPORT
YEZR 1934

1. GENERAL

The only thing to report about this abandoned property is the sale of Location dwellings and Mine buildings. On January 1st, 1934, the Company still owned 10 single and 4 double houses. During the year all but 3 single, or 11 dwellings were sold. The new alignment of M-45 through Republic crosses land owned by The Cleveland-Cliffs Iron Company and the Cliffs Power & Light Company, follows Mine Street cutting across No. 9 stocking ground. A right of way was sold the State Highway Department across these lands, including 8 dwellings as follows:

Houses 5-12 inclusive and Mine Barn (C.C.I.Co.)	\$ 4,200.00
9.5 acres in Sec.18,46-29 (C.P.& L.Co.)	443.00
14.19 acres in Sec.7,46-29 (C.C.I.Co.)	657.00
Total sale price to State	<u>\$ 5,300.00</u>

We also sold the brick Drill Sharpening Shop to the Marquette County Road Commission for a garage for their road scraper and snow plow in the Republic District. The sale price was \$500.00 for the building with an annual ground rental of \$15.00.

Three other dwellings were sold as follows:

<u>House No.</u>	<u>Purchaser</u>	<u>Sale Price</u>
13	Peter W.Pascoe, Jr.	\$ 400.00
42	James Fowler	250.00
46	John Rahe	350.00

The above sales are covered by contracts and are being paid for on a monthly payment plan. The Company still owns 3 single houses, all of which are occupied.

10. TAXES

	<u>1934</u>		<u>1933</u>	
	<u>Valuation</u>	<u>Taxes</u>	<u>Valuation</u>	<u>Taxes</u>
Realty described on tax receipt	10,000	252.10	10,000	381.63
Personal Property	10,000	252.10	10,000	381.63
Lots 71,72,86,108 & 126	95	2.45	95	3.68
Total	<u>20,095</u>	<u>506.65</u>	<u>20,095</u>	<u>766.94</u>
Collection Fees		5.07		7.67
Total Republic Mine		<u>511.72</u>		<u>774.61</u>
Republic Mine Dwellings (Including Fees)	1,590	38.23	6,750	260.42
Total Republic Twp.(Inc.Fee)	<u>21,595</u>	<u>549.95</u>	<u>26,845</u>	<u>1,035.03</u>
Rate		2.52		3.83

There has been no change in valuations but the rate for 1934 is lower than the previous year on account of reduction in debt service.

SPIES VIRGIL MINE
ANNUAL REPORT
YEAR 1934

1. GENERAL

The Spies Virgil Mine remained idle during all of 1934 with the exception of pumping. It was hoped some arrangement might be made with the Republic Steel Corporation to either continue the exploration of the Sherwood property through the Spies Virgil workings, begun in 1933, or else that some joint plan might be effected to operate the mine.

Pumping was done on day shift, with the clerk acting as hoisting engineer, and the other underground foremen and former pumpman as operators. The men worked on a staggered basis.

The Idle Expense for the year, exclusive of taxes, amounted to \$19,732.86; taxes were \$10,144.10, making a total of \$29,876.96.

2. PRODUCTION
SHIPMENTS &
INVENTORIES

c. Stockpile Inventories

<u>Grade</u>	<u>Tons in Stock</u>
Virgil Crushed	312,645
Virgil Crushed (High Sulphur)	8,879
Total	321,524

f. Ore Statement

	<u>Virgil</u> <u>Ore</u>	<u>Virgil</u> <u>Hi-Sulphur</u>	<u>Total</u>	<u>1933</u>
On hand Jan.1,1934	291,745	8,879	300,624	300,624
Adjustment Jan.1,1934	20,900	0	20,900	0
Shipments	0	0	0	0
Balance on hand 12-31-34	312,645	8,879	321,524	300,624

1934 - Idle except pumping throughout the year.

1933 - 1-8hr. shift 4 days per week. 2 crews alternate weeks
Jan. 1st to May 1st. Idle except for pumping
and Sherwood development May 1st to Sept. 1st.
Idle except for pumping Sept. 1st to Dec.31st,1933.

3. ANALYSIS

<u>Grade</u>	<u>Tons</u>	<u>Iron</u>	<u>Phos.</u>	<u>Sil.</u>	<u>Mn.</u>	<u>Al.</u>	<u>Lime</u>	<u>Mag.</u>	<u>Sul.</u>	<u>Loss</u>	<u>Moist.</u>
Virgil Crushed											
Dried 212° F.	312,645	57.64	.401	7.00	.19	1.84	.60	.21	.078	6.50	
Natural		53.60	.372	6.51	.18	1.70	.56	.19	.072	6.05	7.00

SPIES VIRGIL MINE
ANNUAL REPORT
YEAR 1934

3. ANALYSIS

e. Average Analysis of Ore in Stockpile (Cont.)

<u>Grade</u>	<u>Tons</u>	<u>Iron</u>	<u>Phos.</u>	<u>Sil.</u>	<u>Mn.</u>	<u>Al.</u>	<u>Lime</u>	<u>Mag.</u>	<u>Sul.</u>	<u>Loss</u>	<u>Moist.</u>
Virgil Hi-Sulphur											
Dried 212° F.	8,879	57.41	.424	4.09					.369		
Natural		53.10	.392	3.78					.341		7.50
Sherwood											
Dried	1,180	58.00	.561	3.30					.186		
Natural		53.94	.512	3.17					.173		7.00

4. ESTIMATE
OF ORE
RESERVES

As there was no mining or development in 1934, the ore reserves remain the same as reported as of Dec. 31, 1933:

a. Developed Ore

Assumption: 12 cu.ft. equals one ton.

10% deduction for rock.

10% deduction for loss in mining.

<u>Virgil Ore</u>	<u>Available</u> <u>Tons</u>	<u>Unavailable</u> <u>Tons</u>	<u>Total</u> <u>Tons</u>
Revised estimate developed ore above 6th Level, Dec. 31, 1934	41,008	507,718	548,726
Estimate of developed ore between 6th and 8th Levels, Dec. 31, 1934	167,318	95,712	263,030
Total Developed Ore Dec. 31, 1934	208,326	603,430	811,756

b. Prospective Ore

Between 6th & 8th Levels	409,151	278,755	687,906
Total all ore, Dec. 31, 1934	617,477	882,185	1,499,762

We estimate we will recover between 25% and 33%, in our last mining operations, of the ore above the 6th Level tied up in pillars and shown unavailable.

SPIES VIRGIL MINE
ANNUAL REPORT
YEAR 1934

4. ESTIMATE
OF ORE
RESERVES

c. Estimated Reserve Analysis

	<u>Iron</u>	<u>Phos.</u>	<u>Sil.</u>	<u>Mng.</u>	<u>Alum.</u>	<u>Lime</u>	<u>Mag.</u>	<u>Sul.</u>	<u>Loss.</u>	<u>Moist.</u>
Dried	57.50	.425	7.00	.16	1.64	.60	.30	.119	7.35	
Natural	51.75	.382	6.30	.15	1.48	.55	.26	.107	6.60	10.00

5. LABOR
AND
WAGES

a. Comments

The mine was idle during the entire year. A crew of 12 men, including the Captain and Clerk, were employed on a staggered schedule.

Wages were increased on April 1st, 1934. General surface wages were increased 10% from \$4.20 per 8 hr. day to \$3.52, while Company Account miners were increased from \$4.05 to \$4.44.

b. Comparative Statement of Wages and Product

This statement means little as the two years were on such different bases that the comparison means nothing. It is made simply for a record.

	<u>1934</u>	<u>1933</u>	<u>Increase</u>	<u>Decrease</u>
PRODUCT	0	11,950		11,950
NO. SHIFTS & HOURS		1-8 hr.		
<u>AVG. NO. MEN WORKING</u>				
Surface	7	8		1
Underground	5	23		18
Total	12	31		19
<u>AVG. WAGES PER DAY</u>				
Surface	3.68	3.29	.39	.39
Underground	4.55	3.91	.64	
Total	4.07	3.72	.35	
<u>WAGES PER MONTH</u>		(8 days)		
Surface	44.16	26.32		
Underground	54.60	31.28		
Total	48.84	29.76		
<u>TOTAL NO. OF DAYS</u>				
Surface	1,085-5/8	651		
Underground	956-2/8	1,411		
Total	1,941-7/8	2,062		

SPIES VIRGIL MINE
ANNUAL REPORT
YEAR 1934

5. LABOR
AND
WAGES

b. Comparative Statement of Wages & Product (Cont.)

	<u>1934</u>	<u>1933</u>	<u>Increase</u>	<u>Decrease</u>
<u>AMOUNT FOR LABOR</u>				
Surface	3,998.58	2,139.82	1,858.76	
Underground	3,896.28	5,522.01		1,625.73
Total	7,894.86	7,661.83	233.03	

PROPORTION SURFACE TO UNDERGROUND MEN

1934	1 to .88
1933	1 to 2.15
1932	1 to 2.23
1931	1 to 2.28
1930	1 to 2.43
1929	1 to 2.74
1928	1 to 2.64
1927	1 to 3.08
1926	1 to 3.00

6. SURFACE

a. Building Repairs

1. Buildings - Mine

There were practically no repairs to mine buildings in 1934.

2. Buildings - Location

Repairs made to location buildings were made by the tenants.

7. UNDERGROUND

h. Ventilation

When the mine is in operation, the ventilation is good during the winter months, especially when tramming and hoisting is carried on. The warm weather creates a balance in the air current between the two shafts and it is necessary to operate the 5 H.P. No. 2½ B Anaconda type fan. The fan is installed on surface and air blown down the skip compartment. During this past year, when pumping only was in progress, the ventilation became very poor and it was necessary to blow air into the 3rd

SPIES VIRGIL MINE
ANNUAL REPORT
YEAR 1934

7. UNDERGROUND

h. Ventilation (Cont.)

and 8th Level pump houses through the 6 inch air line by means of this fan. Even then it was impossible during the summer and fall to burn a carbide light in the shaft on account of the deficiency in oxygen. If pumping continues in 1935 it may become necessary to install a larger fan at the Spies Shaft collar this winter and brattice off the levels on the shaft plats in order to give the pumpmen fresh air.

i. Pumping

Both the 3rd and 8th Level pumps were operated throughout the year on one 8 hr. shift. In order to give a little extra storage, temporary dams were built near the 6th and 8th Level Plats. The water pumped for the year amounted to 73,856,500 gallons as compared with 84,468,275 gallons for 1933, a decrease of 10,611,775 gallons or 12½%.

10. TAXES

The following tabulation is a comparative statement of taxes paid in Iron County for the year 1934-1933:

Description	1934		1933	
	Valuation	Taxes	Valuation	Taxes
<u>Iron River Township</u>				
NE¼ of NW¼ Sec. 24, 43-35, 40 acres				
SE¼ of NW¼ " 24, " 40 "				
Spies Dwellings.....	5,000	100.75	5,000	101.40
<u>Spies Virgil (a)</u>				
E¼ of NW¼ Sec. 24, 43-35 (Spies)				
SW¼ of NW¼ " 24, " (Virgil)	100,000	2,015.00	80,000	1,622.40
Stockpile, Supplies & Equipt.....	370,000	7,455.50	390,000	7,909.20
Total Spies Virgil.....	470,000	9,470.50	470,000	9,531.60
(a) Total Iron River Twp.....	475,000	9,571.25	475,000	9,633.00
Rate.....		2.105		2.028
<u>Ravenna-Prickett</u>				
<u>City of Crystal Falls</u>				
W½ of SE¼ Sec. 19, 43-32.....	1,000	28.06	10,500	280.39
Rate per \$100.00.....		2.81		2.671
<u>Crystal Falls Township</u>				
<u>Ravenna Prickett</u>				
SW¼ of Sec. 19, 43-32.....)	74,000	1,602.10	72,000	1,458.72
NE¼ of SE¼ 24, 43-33.....)				
SW¼ of NE¼ 19, 43-32.....)	200	4.33	200	4.06
SE¼ of NE¼ 19, "	200	4.33	200	4.06
SW¼ of NW¼ 19, "	200	4.33	200	4.06
SE¼ of NW¼ 19, "	200	4.33	200	4.06
SE¼ of NE¼ 24, 43-33.....			200	4.06
TOTAL.....	74,800	1,619.42	73,000	1,479.02
Rate per \$100.00....		2.17		2.026
TOTAL Ravenna Prickett	75,800	1,647.48	83,500	1,759.41

SPIES VIRGIL MINE
ANNUAL REPORT
YEAR 1934

10. TAXES

	<u>1934</u>		<u>1933</u>	
	<u>Valuation</u>	<u>Taxes</u>	<u>Valuation</u>	<u>Taxes</u>
<u>Distribution of Charges</u>				
C.C.I.Co. Proportion.....	57,300	1,246.95	65,300	1,390.67
Michigan Mineral lands.....	18,500	400.53	18,200	368.74
 (a) The mineral valuation is not divided between the Spies and Virgil and the surface of the Spies is included in the mineral assessment of the virgil.				
<u>Village of Mineral Hills</u>				
<u>Spies Lease</u>				
SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec.24,43-35...)	5,000	7.17	4,500	4.33
NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of " 24, " ...)				
Dwellings.....)				
<u>Virgil Mine Lease</u>				
(a) SW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec.24,43-35.	100,000	143.32	85,000	91.29
Stockpile, Supplies, Equipment...	370,000	530.28	385,500	414.02
Total Opt.Spies Virgil.....	470,000	673.60	470,500	505.31
 Total Mineral Hills.....	 475,000	 680.77	 475,000	 510.14
Rate.....		.14332		.1074

The Village of Mineral Hills is in Iron River Township. The valuations as shown here are the same valuations shown by Iron River Township.

(a) The valuation of 100,000 includes both the Spies and Virgil descriptions noted above for the year 1934 and 1933. Not divided by tax appraiser and any division would be arbitrary.

14. MAINTENANCE
AND REPAIRSb. Hoisting Equipment

As there is no heat in the engine house, a heating coil was placed about the oil cylinder of the air brakes, so that it can be operated in cold weather. It works perfectly. Last winter it was necessary to rely wholly on the hand brake.

c. Pumps

In February one of the 8th Level pumps was out of commission. a bolt holding a wedge block in place between the connecting rod and plunger, broke. It was repaired and worked satisfactorily for a while but later it was necessary to install a new connecting rod.

SPIES VIRGIL MINE
ANNUAL REPORT
YEAR 1934

14. MAINTENANCE
AND REPAIRS

c. Pumps (Cont.)

Slides of No. 1 8th Level pump were babbitted. Valves were repaired on both pumps.

17. CONDITION
OF
PREMISES

The dwellings in the location are badly in need of paint. The sheds and fences are in poor state of repair and detract from the appearance of the premises.

18. NATIONALITY
OF
EMPLOYEES

<u>Americans</u>	<u>Percent</u>	<u>Parentage</u>
2	.17	English
3	.25	Irish
1	.08	Dane
<u>Foreign Born</u>		
5	.42	English
1	.08	Creation
<hr/>		
12	100.00%	