

Mr. M. M. Duncan, Vice-Pres., & Gen. Mgr.,
Ishpeming, Michigan.

Dear Sir:

I beg to submit the following report of the work done in the Gwinn District for the year ending December 31st, 1925.

The various subjects have been taken up under the following heads:-

GENERAL REMARKS

STEPHENSON MINE

FRANCIS MINE

GWINN MINE

PRINCETON MINE

AUSTIN MINE

GARDNER-MACKINAW MINE

GENERAL SURFACE

ANALYSIS OF COST SHEETS

GENERAL REMARKS.

The product of the Gwinn District Mines for the years 1925 and 1924, was as follows:

	<u>1925</u>	<u>1924</u>	<u>INCREASE</u>	<u>DECREASE</u>
Stephenson Mine,	253,193	247,212 (1)	5,981	
Francis " (2)	0	39,031		39,031
Gwinn " (3)	<u>206</u>	<u>0</u>	111	
Total,	253,399	286,243		
DECREASE, 1925,				32,844

(1) Includes overrun of 5,002 tons from stockpile shipments.

(2) Francis Mine abandoned April 30th, 1924.

(3) Produced from repair work, 111 tons; stockpile overrun, 95 tons.

The following table gives shipments for 1925, and ore in stock on December 31st, 1925:

	<u>SHIPMENTS</u>	<u>IN STOCK DEC. 31-1925</u>
Stephenson Mine,	216,089	512,842
Princeton "	13,213	171,081
Gwinn "	980	1,745
Austin "	0	43,233
Francis "	0	403,035
Gardner-Mackinaw Mine,	<u>0</u>	<u>50,562</u>
Total Shipments,	230,282	
Ore in Stock Dec. 31st, 1925,		1,182,498
Ore in Stock Dec. 31st, 1924,		<u>1,159,382</u>
INCREASE, 1925,		23,116

Shipments in 1925 exceeded those of 1924 by only 30,996 tons; in both years they were low. They correspond with shipments in 1908, 1909, 1914, 1921 and 1923, all of which were poor years as far as movement of ore from this district was concerned.

GENERAL REMARKS:

The following statements are included in the report as they give the history of the district in a concise form:

STATEMENT SHOWING TOTAL ORE PRODUCED BY YEARS FROM 1903 TO 1925 - INCLUSIVE.

<u>YEAR</u>	<u>AUSTIN</u>	<u>PRINCETON</u>	<u>STEPHENSON</u>	<u>GWINN</u>	<u>FRANCIS</u>	<u>GARDNER- MACKINAW</u>	<u>TOTAL</u>
1903	1,086						1,086
1904	30,118						30,118
1905	57,210	(a) 8,224					
		48,889)					114,323
1906	160,049	175,752					335,801
1907	192,424	174,457	8,333				375,214
1908	197,525	124,346	78,419				400,290
1909	203,129	144,882	142,816				490,827
1910	64,705	115,782	214,500				394,987
1911	145,221	96,670	226,022	537			468,450
1912	115,934	22,567	209,282				347,783
1913	68,259	74,884	255,979				399,122
1914		3,256	214,608	48,389			266,253
1915		122	207,724	127,300			335,146
1916	16,193	145	303,562	144,066			463,966
1917	51,659	(b) 1,106	253,266	161,963	1,778		467,560
1918	1,069	148,265	4,245	155,534	41,535	2,405	353,053
1919	14,896	193,228	2,402	137,847	80,528	69,326	498,227
1920	73	156,746	174,782	96,595	80,056	130,388	638,640
1921		97,150	196,539	63,501	71,075	159	428,424
1922	50,905	74	213,223(c)	20,085	98,049	0	382,336
1923	82,976	0	247,212	27,334	110,550	0	468,072
1924	0	0	249,428	0	39,031	0	288,459
1925	0	0	253,193 (d)	206			253,399
Total,	1,453,431	1,584,333	3,455,535	983,357	522,602	202,278	8,201,536

(a) On hand when mine was taken over August 1st, 1905

(b) Stockpile shortage.

(c) Stockpile overrun.

(d) One-hundred and eleven tons produced from repair work; ninety-five tons stockpile overrun.

STATEMENT SHOWING SHIPMENTS FOR EACH YEAR FROM 1905 TO 1925 - INCLUSIVE.

<u>YEAR</u>	<u>AUSTIN</u>	<u>PRINCETON</u>	<u>STEPHENSON</u>	<u>GWINN</u>	<u>FRANCIS</u>	<u>GARDNER- MACKINAW</u>	<u>TOTAL</u>
1905	44,653	47,290					91,943
1906	173,182	166,894					340,076
1907	195,950	177,863	6,305				380,118
1908	111,229	36,033	52,588				199,850
1909	125,727	42,935	64,206				232,868
1910	188,587	89,442	225,726				503,755
1911	107,394	28,189	128,839	230			264,652
1912	102,529	162,137	214,386				479,052
1913	107,365	53,477	96,298				257,140
1914	30,491	13,607	93,796	20,159			158,053
1915		17,171	243,458	57,910			318,539
1916	64,521		368,739	143,708			576,968
1917	44,420	150,375	496,712	188,070			879,577
1918	8,533	66,244	75,162	182,541	30,775		363,255
1919	2,334	111,617	1,965	56,666	26,936	32,332	241,850
1920	3,665	153,609	110,924	196,593	34,199	49,051	548,041
1921		23,916	77,077	64,515	16,220	19,889	201,617
1922	5,065	26,145	202,522	26,436	11,437	40,180	311,785
1923	94,553	25,642	74,368	28,529	0	10,264	233,356
1924	0	7,453	186,899	4,935	0	0	199,287
1925	0	13,213	216,089	960			230,282
Total,	1,410,198	1,413,252	2,936,059	981,272	119,567	151,716	7,012,064

STATEMENT SHOWING ORE IN STOCK AT THE CLOSE OF
EACH YEAR, FROM 1903 TO 1925 INCLUSIVE.

1903	1,086						1,086
1904	31,204						31,204
1905	43,761	8,923					52,684
1906	30,628	18,681					49,309
1907	27,102	15,275	2,028				44,405
1908	113,398	103,588	27,859				244,845
1909	190,800	205,535	106,469				502,804
1910	66,918	231,875	95,243				394,036
1911	104,745	300,356	185,792	307			591,200
1912	118,150	160,786	180,688	307			459,931
1913	79,044	182,193	340,369	307			601,913
1914	48,553	171,842	461,181	28,537			710,113
1915	48,553	154,793	425,447	97,927			726,720
1916	225	154,793	360,270	98,285			613,573
1917	7,464	3,457	116,824	72,178	1,778		201,701
1918	--	85,478	45,907	45,171	12,538	2,405	191,499
1919	12,562	167,089	46,344	116,352	66,130	39,399	447,876
1920	8,970	170,226	110,202	16,014	111,987	120,736	538,135
1921	8,970	243,460	229,664	15,000	166,842	101,006	764,942
1922	54,810	217,389	240,365	8,649	253,454	60,826	835,493
1923	43,233	191,747	413,209	7,454	364,004	50,562	1,070,209
1924	43,233	184,294	475,738	2,519	403,035	50,562	1,159,381
1925	43,233	171,081	512,842	1,745	403,035	50,562	1,182,498

GENERAL REMARKS:

The Stephenson Mine operated throughout the year on a five-day per week schedule. The Gwinn, Princeton and Austin Mines have been kept in repair so that they can be reopened on short notice. The Gardner-Mackinaw Mine is full of water, but it can be pumped out and operations resumed on several months notice.

There has been plenty of surface labor available throughout the year, but no great excess. No new men are coming in from foreign countries; the available surface labor consists of boys who have attained the age of 18 years, men crippled in mines by accidents, and men, whom by reason of failing health, are forbidden to work underground by the company physician. The majority of the young men go to Iron Mountain to work for Ford. A few miners and other employees have also gone there during the year, but the loss from this cause has not been large.

The district is 23 years old and the early employees are now nearly all past 50 years of age, with a number past 60 years. It is to be regretted that there is not some other source of employment in the district that might absorb some of the older workmen.

On January 1st, 1925, there were 269 men employed in the district; on December 31st, 1925, there were 283, the gain for the year was 14.

There has been a further increase in the number of vacant houses in the district, due to families moving to Iron Mountain. All of the fifty houses at the Gardner-Mackinaw are vacant, in Gwinn there are 39; at the Austin 13 and 9 at Princeton. Some privately-owned houses at Gwinn were rented this fall to lumber jobbers who are operating in the township. All vacant houses at New Swanzy have been rented to men working in the woods.

The five days per week schedule is liked by all the employees, except those having large families, who are having difficulty in paying bills, especially those employed on surface.

The Gwinn County Park was further improved during the year and was enjoyed very much by the local people. The summer was warmer than usual and the

pool was very popular. The people outside of Gwinn are gradually learning of the park and many families spent the day there. Many tourists also stopped over from one day to a week. Tents were again used for temporary bath-houses; it is hoped that permanent bath-houses will be erected next year.

The severe snow storm of October 19th resulted in serious damage to the trees throughout Gwinn. A number of elms were broken; also birch trees and many limbs from the pines. Nearly fifty truck loads were hauled from the streets in cleaning up after the storm.

Due to the shortage of water in the storage basins, on account of the deficient rain fall, the steam turbine at the Central Power Plant was operated from June 16th for the balance of the year. The situation was so serious that the two steam pumps on the 4th Level of the Stephenson Mine were put into commission and operated during November and part of December. The main pumping plant on the Escanaba River was also operated by steam from August 29th for the balance of the year. Large stocks of coal were accumulated; on December 31st, there were 2691 tons at the Stephenson dock and 2947 tons at the Central Power Plant dock. The inventory as of December 31st showed \$33,252.33 as the value of fuel on hand, this was approximately \$20,000.00 more than the normal supply. At the end of the year the supply of water in the storage basins was not as low as had been expected in September, and the steam turbine at the Central Power Plant was closed down December 31st. The change from steam to electricity for operating the main pumping plant on the Escanaba River was made on December 30th.