

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, 1922.

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

GENERAL REMARKS

AUSTIN MINE

STEPHENSON MINE

FRANCIS MINE

GWINN MINE

PRINCETON MINE

GARDNER AND MACKINAW MINES.

GENERAL SURFACE.

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GENERAL REMARKS:

The product of the Gwinn District Mines for the years 1922 and 1921 was as follows:

	<u>1922</u>	<u>1921</u>	<u>INCREASE</u>	<u>DECREASE</u>
Stephenson Mine,	* 213,223	196,539	16,684	
Austin "	50,905	0	50,905	
Francis "	98,049	71,075	26,974	
Gwinn "	** 20,085	63,501		43,416
Princeton "	*** 74	97,150		97,076
TOTAL,	382,336	428,265	94,563	140,492
DECREASE 1922,				45,929

\* Includes 14,000 tons over-run in Stephenson stockpile.

\*\* Made up of 14,064 tons Gwinn Silica in stock, 6,000 tons stockpile over-run Gwinport and 21 tons hoist from re-timbering work in mine.

\*\*\* Obtained from re-timbering.

The Stephenson and Francis Mines operated on half time basis until June 5th, when they started working full time. The Austin Mine re-opened on June 5th, after being idle for 2 years and 5 months; it was operated on double shift for the balance of the year.

The Stephenson Mine hoisted ore on day shift only until August 16th, since which time ore has been hoisted on both day and night shift. Hoisting on night shift started at the time the skip hoist was changed from steam to electric, due to trouble with the hoist, which rendered it impossible to hoist the product on one 8-hour shift. When the work on the hoist was finally completed, it was decided to continue to hoist on the night shift, as operating conditions were better due to emptying all the chutes each 24-hour period.

The Francis Mine hoisted ore on day shift during the entire year. At different times there has been a few men working at night in order to speed up development work.

GENERAL REMARKS:

The Princeton, Gwinn and Gardner-Mackinaw Mines were idle during the year 1922. Pumps have been operated at all of these mines and the main levels kept in repair. Owing to the nature of the ore and rock at the Gardner-Mackinaw Mine, no repair work has been necessary during the year. A recent examination of the entire mine found all levels and stopes in the same condition as when work ceased two years ago. Operations can be resumed at any of these mines on short notice.

The following table gives the ore in stock at the mines at the end of the years 1922-1921:

	<u>1922</u>	<u>1921</u>	<u>INCREASE</u>	<u>DECREASE</u>
Stephenson Mine,	240,365	229,664	10,701	
Princeton "	217,389	243,460		26,071
Gwinn "	8,649	15,000		6,351
Francis "	253,454	166,842	86,612	
Mackinaw "	6,125	24,408		18,283
Gardner "	54,701	76,598		21,897
Austin "	54,810	8,970	45,840	
TOTAL,	835,493	764,942		
INCREASE, 1922,			70,551	

There was a shortage of miners in the latter part of the summer; at all other times during the year there had been a surplus of both miners and other labor. During the winter there was a large number of idle men in the district, but when the mines went on full time basis in June and general surface work started, practically all labor was given employment. When shipping from stockpile ceased and the Crushing Plant went out of commission in October, there was again a surplus of surface labor. Due to the fact that there are no other local industries, surplus labor must either remain idle or leave the district to find employment.

On January 1st, 1922 there were 422 men employed in the district; on December 31st, 1922 there were 452, the increase for the year being 30 men.

The company houses at Gwinn Townsite, Gardner-Mackinaw, Austin and Princeton Locations were painted during the past summer by the spray system.

There has been a big improvement in the appearance of all the locations. Extensive repairs were necessary on account of painting, and a large crew of carpenters were employed until late in the fall.

Practically all company houses at Princeton, Austin and Gwinn are occupied, and about one-half of the houses at the Gardner-Mackinaw Location.

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