

GENERAL SURFACE

SECTION 2 - 44 - 25

Repairs were made on old Diamond Drill camp buildings. The buildings were used for boarding house and bunk house previous to the closing down of the Mackinaw and Gardner Mines.

SECTION 35 - 45 - 25

The barn that was under construction for the Mackinaw and Gardner Mines was completed early in the year.

GARDNER MACKINAW LOCATION

Five more double houses were erected in the Gardner Mackinaw Location.

A 6" sewer line was laid to accommodate these houses and connected with man-hole that was constructed last year.

A lighting line was erected from the Sub. Station at the Mackinaw Mine to the location to furnish electric lights for the company houses.

Boundary fences were erected in the Location and fences stained.

A school building was erected by Forsyth Township in East end of the location and a school yard enclosed by boundary fence.

GWINN TOWNSITE

The gravel on West Roadway of Pine Street from Mineral to Jasper was removed and replaced with crushed rock, the above work being done by Forsyth Township.

A catch basin was also constructed on West side of the roadway between lots 4 and 5, Block 13.

BUILDINGS

A building was erected for Catholic Parsonage on Lot No. 4 of Block No. 33 - North of Iron Street.

A private residence was erected on Lot No. 3 of Block No. 16.

A brick building for Town Hall is being erected by Forsyth Township on Lot No. 1 of Block No. 4, on West side of Pine Street. This building is a

fine looking structure and is a great improvement to this part of the town.

The depression in the iron market had its effect on the building in Gwinn. Only three buildings were erected in the Townsite, while if conditions were better others would probably have been built.

PLANTING

Shrubs were planted in the beds along the streets in Cemetery, this planting being done by Forsyth Township.

Engleman's Ivy was planted along West wall of Hotel building and East wall of bank building.

Maple trees were gathered in the woods and planted to replace those that died last year.

The planting that was done at the grounds of the Gwinn Station by the Railroad Department last fall made a good growth this past season and has greatly improved the appearance of the grounds.

GWINN ASSOCIATION

The Association camp on Bass Lake was completed early in July and camp opened with a picnic for the association members.

Moving Picture machine was installed at the Club House early in May and three shows a week have been given since this time. These entertainments have been for club members only, a nominal charge of 10 cents being made for adults and five cents for children. This has proved to be a very popular, their attendance having been good at these entertainments the greater part of the time. The moving pictures have brought people to the Club House that otherwise would have remained away. Many of these are now enjoying the privileges the Association offers and are much more interested in their membership than they were a year ago.

CENTRAL POWER PLANT

Repairs were made on Central Power Plant Coal Dock where legs, braces and sides were injured by fire. Quite a number of new caps and corbels were also put in to replace old ones that were decayed.

An explosion occurred in transformer building on night of April 28th

and wrecked the South wall of the building. The cause of the explosion is unknown but it is likely that gas was generated in some way and ignited by a flash from the lightning arresters. The damaged wall was taken down and a new one erected.

FIRES

Due to the extreme dry weather during the months of May and June a good many forest fires occurred during these months. They were as follows:

May 8th. A fire started on Southeast $\frac{1}{4}$ of S. E. $\frac{1}{4}$ Section 22 - 45 25 and burned over about 1 acre, consisting of grass and small Jack Pine.

May 9th. A fire started on S.W. $\frac{1}{4}$ of N.W. $\frac{1}{4}$ Section 26 - 45 - 25 and burned over about four acres, consisting of grass and brush.

May 12th. A small fire occurred in the Town of New Swanzy in S.W. $\frac{1}{4}$ of S.W. $\frac{1}{4}$ Section 22 - 45 - 25. This fire spread from a fire that was started to burn rubbish. It was soon got under control and no damage done.

May 14th. A fire started on Southwest $\frac{1}{4}$ of S.W. $\frac{1}{4}$ Section 2 - 45 - 25 and spread to N.W. $\frac{1}{4}$ of N.W. $\frac{1}{4}$ Section 11 - 45 - 26, burning over about 80 acres consisting mostly of grass and brush.

May 16th. A small fire occurred along the M. M. & S. E. Ry. on S.E. $\frac{1}{4}$ of S.E. $\frac{1}{4}$ Section 22 - 45 - 25. No damage done.

May 18th. A small fire occurred on S.E. $\frac{1}{4}$ of S.E. $\frac{1}{4}$ Section 22 - 45 - 25, burning over about one half acre.

May 18th. A fire started in S.W. Corner of T 44 N, R 25 W, and spread North and West to Section 17, T 44 N, R 25 W, and North along the West side of T 44 N, R 25 W, to Sections 5 and 6. This fire covered a large area and burned on the Northern limit of the fire up to May 25th. The damage done was not very great as land burned over consisted mostly of old slashings, Jack Pine, Poplar, and a few scattering White Pine and Hemlocks.

May 18th. A fire also occurred on N.W. $\frac{1}{4}$ of N.W. $\frac{1}{4}$ Section 26 - 45 - 25 burning over about 4 acres.

May 12th. A small fire occurred on S.E. $\frac{1}{4}$ of S.E. $\frac{1}{4}$ Section 19, T 45 N, R 25 W. No damage done.

June 9th. A fire started in the N.E. $\frac{1}{4}$ of N. E. $\frac{1}{4}$ Section 29, T 45 N,

R 25 W., and spread on to Section 28 and 21 covering an area of about 15 acres. This fire was started by sparks from M. M. & S. E. Ry. engine. There was a very high wind blowing at the time the fire occurred and it took a large force of men to get it under control. This fire was especially dangerous as the wind was blowing towards the Gwinn Townsite.

June 16th. A fire occurred in S.E. $\frac{1}{4}$ of S.E. $\frac{1}{4}$ Section 19, T 45 N, R 25 W., and burned over about one acre.

June 16th. There was also a fire on S.W. $\frac{1}{4}$ of S.W. $\frac{1}{4}$ Section 20, T 45 N, R 25 W, burning over about one acre. No damage done.

May 30th. A fire started on N.E. $\frac{1}{4}$ of S.E. $\frac{1}{4}$ Section 17 - 45 - 25 and continued to burn up to June 2nd. This fire spread on to Sections 8 and 9 and burned over about 480 acres.

June 1st. A fire occurred on N.W. $\frac{1}{4}$ of Section 18, T 45 N, R 25 W and covered an area of about three acres consisting of grass and brush.

June 5th. A fire occurred on Section 17, T 45 N, R 25 W. This fire started from smouldering logs from the fire of June 2nd and burned over an area of about 50 acres consisting mostly of old slashings and brush.

June 9th. A fire started on N.E. $\frac{1}{2}$ of N.E. $\frac{1}{4}$ Section 18, T 45 N, R 25 W., just across the river from the Pump Station. This fire covered about 20 acres but was soon got under control.

ACCIDENTS

There were no fatal accidents in the Gwinn District during the year 1914.

Safety devices and appliances were provided where ever possible and these doubtless have had the effect of reducing the number of accidents.

STEPHENSON MINE.

COMPARATIVE MINING COST FOR YEAR.

	1 9 1 4	1 9 1 3	INCREASE	DECREASE
<u>PRODUCT</u>	214,608	255,979		41,371
General Expense	.158	.144	.014	
Maintenance	.167	.165	.002	
Mining Expense	1.120	1.078	.042	
<u>Cost of Production</u>	1.445	1.387	.058	
<u>DEPRECIATION</u>				
Plant	.103	.289		.186
Equipment	.002		.002	
New Construction		.005		.005
Total Depreciation	.105	.294		.189
Taxes	.031	.043		.012
Central Office	.079	.069	.010	
Sundry Expense	.032	.084		.052
Miscellaneous	.013	.005	.008	
Supply Inventory	.002		.002	
<u>COST ON STOCKPILE</u>	1.707	1.882		.175
Loading & Shipping	.012	.009	.003	
Total Cost on Cars	1.719	1.891		.172
Number days operating	279	302		.023
Number shifts and hours	2-8hr (125) 1-8hr (154)	2-8hr		
Avg.daily product	769	848		
<u>COST OF PRODUCTION</u>				
Labor	.943	.972		
Supplies	.502	.415		
Total	1.445	1.387		

ANALYSIS OF COST SHEETS

Below is a comparison of the Cost Sheets for the years 1913 and 1914 for the operating mines in the Gwinn District:

STEPHENSON MINE	1913	1914	INCREASE	DECREASE
Average Product for Month, 21,331		17,884		
General Expense,	.144	.158	.014	
Maintenance,	.165	.167	.002	
Mining Expense,	1.078	1.120	.042	
TOTAL	1.387	1.445	.058	

The Details making up these differences follow:

ANALYSIS OF COST SHEETS - For Years 1913 and 1914.

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	1913	1914	INC.	DEC.	REMARKS
COST OF PRODUCTION	1.387	1.445	.058		Detail of Increase Below:
<u>GENERAL EXPENSE</u>					
Engineering,	.015	.013		.002	More Engineering required in 1913.
Analysis,	.049	.043		.006	In 1913 there were 38,629 Determinations. In 1914 there were 32,998 Determinations and the cost per determination in 1914 was less.
Personal Injury,		.009	.009		In Sept. 1914 the sum of \$1500.00 was paid to John Ruotsala in respect of accident Report No. 108 November 1st, 1911.
Mine Office,	.016	.021	.005		Increase due to the feed for Captain's Horse. Transfer of Princeton and Gardner Mackinaw Clerks at higher rate than men laid off and increased telephone charge.
District Office,	.064	.071	.007		Princeton and Austin Mines not operated during 1914, in consequence of which a larger proportion of District Office Expense was borne by Stephenson
<u>MAINTENANCE</u>					
Tracks and Yards,	.005	.007	.002		Building new road on Surface and laying out Dry House grounds.
Buildings,	.006	.007	.001		New roofing for office and warehouse and wiring shaft house. New roofing for boiler house and repairs to dry house heater. Repairs to coal dock trestle and extension of timber tunnel.
Shop Machinery,	.003		.003		Depreciation of drill sharpener at Central Shops charged Stephenson in 1914.
Hoisting Machinery,	.004	.003		.001	Less repairs to Hoisting Machinery.
Comp. & Power Drills,	.008	.007		.001	In 1913 16 power drills were charged out whilst in 1914 only 12 were charged.

	1913	1914,	INC.	DEC.	REMARKS
<u>MAINTENANCE (CONT'D)</u>					
Pumping Machinery,	.023	.012		.011	Decrease due to fact that in 1913 \$1871.96 expended on water launder on surface, \$551.16 stand piping to test water and less expense for ditches and launders underground.
Top Tram Eng & Cars,	.014	.016	.002		Increase due to more repairs required to top tram system and building two new cars.
Skips & Skip Roads,	.007	.004		.003	Less repairs to skips and skip roads.
U. G. Tracks & Cars,	.008	.007		.001	Less repairs to Cars and Tracks on sub. levels.
Electric Tram Plant	.047	.055	.008		Increase due to purchase of 12 new main level cars in 1914 at a cost of \$2800.00.
Telephones and Safety Devices,	.003	.006	.003		Increase due to \$276.96 expended for appliances for care of injured persons, safety devices for shaft house and pulley stands and trestles.
<u>MINING EXPENSE</u>					
Air Pipes,	.008	.009	.001		Increase due to more air piping in mine on account extension 5th Level cross-cuts and opening 6th Level.
Compressors,	.042	.073	.031		Princeton and Austin Mines did not operate in 1914, consequently Stephenson Mine bore a larger proportion of cost of Compressor Room charge.
Hoisting,	.039	.043	.004		Decreased tonnage but an engineer is retained on each shift when the mine is not operating.
Pumping,	.082	.093	.011		See note as to mine operations at foot.
Sinking and Shaft Repairs,	.002	.006	.004		Cutting 6th Level Plat in 1914.
Rock Drifting,	.085	.088	.003		2964 feet of Rock Drifting and Rock Raising in 1914, whilst in 1913 there was 3178 feet with a larger production.

	1913	1914	INC.	DEC.	REMARKS
<u>MINING EXP. (CONT'D)</u>					
Breaking Ore,	.389	.381		.007	Decrease due to the production per man stoping having increased and also to decrease in wages paid miners.
Timbering,	.213	.20		.013	Less timber required in mine in 1914.
Captain and Bosses,	.045	.039		.006	Reduction of Bosses and decrease of wages paid.
Stocking Ore,	.025	.037	.012		Increase due to erection of portable trestles for No. 2 ore and taking down and putting up Bessemer Trestle.

NOTE:

Mine operated 2 - 8 hour shifts from January 1st to June 1st, 6 days a week.
 Mine operated 1 - 8 hour shift from June 1st to October 1st, 6 days a week.
 Mine operated 1 - 8 hour shift from October 1st to Dec. 31st, 4 days a week.