

West End Consolidated  
Mining Co. v3

West End Consolidated  
Mining Co.

Controlled

West End  
Ohio Jonopah  
Halifax  
West End Extension  
Jonopah 76

MICRO FILMED AS  
(4840 0118)

63 WEST END CONSOLIDATED MINING CO.  
HISTORY

from 19 17 - (254)  
Item 118 1 of 71  
4840 0890

Mac Namara  
Montana Jonopah  
Rescue - Eula  
Jonopah Midway  
Jonopah North Star  
West End - Jim Butler  
(dispute)  
Jim Butler

WEST END CONSOLIDATED MINING COMPANY

1901 West End claim located by Carr and Leidy.

1903 Known as West End Milling and Mining Co.  
Shaft located on extreme east end of claim.  
Sunk to 780 feet; cut a quartz vein at 400 feet that carried only low values. Raised on the vein and struck high grade at 20 feet.

1906 First recorded production 241 tons with recovered value of \$15,050 or \$62 per ton.  
West End Consolidated Mining Co. organized.  
New two-compartment shaft sunk close to middle of claim  
Obtained Ohio group of claims for 200,000 shares of treasury stock.

June 1907 Shipping high grade ore

Sept 1907

No. 2 shaft connected on 275-foot level to No. 1 shaft, and a "112-foot wide quartz vein intersected."

Depression of 1907 did not stop development

Shipments during 1907 to 1910 period carried expenses of development at both No. 1 (Corkill) and No. 2 shafts

Apex litigation with MacNamara

Produced 21,145 tons with return of \$593,059 in years 1907 to 1910 inclusive.

1909 FY ending 3-31-10. Fourth Annual Report

Property consisted of 9 patented claims totaling 136.14 acres, (West End, California, Colorado, Utah, Arizona Oregon Rambler, Montana and Porcupine Fraction) and 25.3 acres on four unpatented claims (Taft, Red Rose, Moonlight-Friction and West Tonopah Fraction)

West End vein on contact between dacite footwall and overlying andesite hanging wall.

All work done confined to West End claim

1910 FY ending 3-31-11

Shipped 16,164 tons with gross value \$338,061

Made \$30,000 purchase option on old Midway mill. This 20-stamp mill was remodeled by Tonopah Mining Co. to sand and slime cyanide plants --values to be removed by cyanide solution only.



- 1911 FY ending 3-31-11  
 Shipped 1,151 tons to smelter - gross value \$33.06 per ton with freight, treatment charges, and metal deductions totaling \$10.26; net of 69 percent of gross value.  
 Milled 15,903 tons of \$16.75 in last 6 months of year.  
 New ore bodies developed on 500-foot level with possible 70,000 tons of \$20 ore.  
 Acquired one-half ownership of Halifax stock. Belmont vein failed to persist even to Belmont end-line.  
 Sept. 1911 - Exercised option to purchase Midway Mine. Completed reconstruction and started operation; also purchased TM Co Midway mill tailings.
- 1912 FY 3-31-13  
 Ore bodies proved to extend to 600-foot level.  
 Shaft sunk to 800-foot level to connect to 800-foot level of MacNamara Mining Co  
 Production of mine: 129 tons sorted and sent to smelter, assaying \$91.41  
 Shipped 44,511 tons to mill, assaying \$17.05 per ton.  
 Purchased Crocker and Salsberry claims for \$10,000  
 Halifax shaft sunk to depth of 1,555 feet.
- 1913 & 1914 (4-1-13 to 12-31-14)  
 Shaft sunk to depth of 1,025 feet, with stations at 960 and 1,000-foot levels
- 1914 Production reported to state for 1914 was 51,471 tons at \$18.20 per ton  
 Mine tonnage treated at mill was 55,888 tons of \$14.33 value  
 Custom ore milled 5,041 tons  
 Halifax - 3,983; North Star - 907; Geo. A. Kernick - 151
- 1915 43,687 tons to mill at \$16.00 per ton. Also milled 13,310 tons of \$20 custom ore.  
 Reopened Ohio shaft
- 1916 Increase of 18 ¢ per ton in mill costs due to sharp advance in prices of zinc and cyanide. Also unexampled increase in prices for blasting powder, pipe and rails  
 Increase in wages as of December 1  
 Begun sinking Ohio shaft to deeper levels.
- 1916 Halifax - drifting easterly on 1700 level to get beyond area where intrusive rock disturbed the vein  
 7,500 foot 4-inch pipeline constructed from Halifax mine to West End mill delivering water 40 to 60 degrees higher temperature than water from city mains - cost \$7329 yielding savings of \$600 per month in water bill.
- 1917 Sent 45,910 tons of \$15.73 to mill.  
 West End shaft sunk to 1212 feet with a station at 1,000 feet  
 Ohio vein discovered on California claim in a raise from the 500 level  
 Milled 66,833 tons, 20,923 being custom ore.



- 1917 Milling - daily average of 26.9 stamps dropping, crushing 6.9 tons per stamp  
Changed back to Danish pebble because of increase cost of steel grinding balls
- 1918 Mine tonnage to mill 50,195 tons  
Acquired Searles Lake, Calif. and Honduras properties  
82,000 tons (\$2,000,000 gross value) blocked at Ohio vein  
Mill treated 66,518 tons, 16,323 tons was custom ore.
- Favorable U. S. Supreme Court decision giving West End right to follow and mine its vein extra laterally into Jim Butler property- June 1918
- Influenza epidemic in Tonopah
- 1919 Mill treated 33,140 tons West End ore and 17,446 custom ore for average of \$25.94 per ton  
Average price received for silver was \$1.11 per ounce  
Over 100 days mining lost at Halifax due to influx of water on 1,700 foot level which required the use of ships for bailing.  
Increased price of silver put low-grade material in West End workings into the class of ore.  
Ohio vein established on 800 foot level  
Strike - Aug 18 to Nov 7 - curtailed production 30 percent, increase 50¢ per shift  
Small footage driven on footwall vein in West End - profitable mill ore for 75 percent of distance  
Average price received for silver was \$1.1095 per ounce.
- 1920 53,000 tons to mill at \$22.85 per ton; 6,000 tons from Halifax  
Silver price received averaged \$1.08 for year
- Opened a small vein with good values in Mizpah Extension property. Discontinued milling of custom ore.
- 1921 Mine produced 74,674 tons of \$19.55 per ton with 40,000 tons coming from Ohio veins  
Milled 81,511 tons or 215 tons per day.
- 1922 Produced 98,181 tons, with 60,000 tons from Ohio.  
Six month lease taken on McNamara mill which treated 10,056 tons West End ore and 3,600 tons from Halifax, Tonopah Divide, MacNamara, and Montana leases.  
Later 7,346 tons West End ore shipped to T.M.Co. Millers mill in preference to leasing MacNamara mill.
- 1922 Halifax - all years work confined to developing area south of the shaft and above the 1,000 level.  
Milled 7,357 tons from Halifax - from 800 and 900-foot levels.  
Small tonnage of low grade ore mined by lessors in Halifax and Mizpah Extension  
Operated Mabel Mine under lease. Shipped 200 tons with gross value of \$118.81 per ton. Vein is narrow but can be profitably worked with silver at \$1.00 per ounce.



# WEST END CONSOLIDATED MINING COMPANY

Tonopah, Nevada, May 7, 1929.

To the Stockholders of the  
West End Consolidated Mining Company:

The business affairs of the West End Consolidated Mining Company have been in a chaotic state for several years, and until recently it appeared a hopeless task to relieve it of even a part of its obligations without the loss of all its assets.

The following information will give you a definite idea of the financial and operating history of the company covering the past two and one half years, or since the present Board of Directors assumed charge of your company's affairs.

On September 2, 1926, Mr. F. M. Smith, who as president had directed the company's affairs practically ever since its organization, together with a controlling number of the Board of Directors, resigned and control of the Board came into the hands of the operating staff at Tonopah, where the mine is situated. Mr. Smith's expressed reason for his resignation at this time was that circumstances had arisen in his private affairs which, in his opinion, made it desirable for him to sever his connection with the corporation, as his presence on the Board of Directors and in the offices of President and Treasurer might be regarded as disadvantageous to the corporation itself or its stockholders at large. The Oakland office of the company was immediately closed and all company records moved to Tonopah.

At the time of this change in the directorate the financial affairs of the West End Consolidated Mining Company were in very bad condition, with large debts, two suits for damages in which the company was named as defendant or co-defendant, and with practically no assets which could be realized on in any substantial amount if sold.

Liabilities on September 2, 1926, at the time the new management took control, were as follows:

U. S. Department of Internal Revenue, for unpaid back Federal Income Taxes for years 1916 to 1922, inclusive, without considering accumulated interest at the rate of one per cent per month.....	\$483,140.03
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Legal and accounting work in connection with above taxes .....	14,187.73
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State of Nevada, for bullion taxes due to deduction of certain items in computing bullion taxes for years 1920 to 1926 inclusive, afterwards decided by State Supreme Court to be illegal deductions .....	5,920.78
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Miscellaneous book accounts, covering money borrowed to meet legal and development expense in connection with apex litigation suits in Tonopah .....	55,383.79
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A total of .....	\$558,632.33
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In addition to the above direct liabilities the West End Consolidated Mining Company was involved as defendant or co-defendant in two suits, one in the amount of \$127,476.14 and the other in the amount of \$408,316.00. (The first above referred to has been compromised and withdrawn. The second has been decided in the courts and the company cleared.)



- 1923 Milled 70,458 tons of \$17.20 ore.  
Shipped 4,124 tons to Millers to realize \$1 price for silver before the Pittman Purchase Act closed in June.  
Halifax sent 8,600 tons to mill at a profit of \$45,600.  
West End agreed to take balance of unissued treasury stock that had been offered by Tonopah 76 Consolidated Mining Co., to get money for shaft sinking. Leased property in 1923.
- 1924 Milled 43,745 tons at \$16.  
Halifax shipped 381 tons.  
Average price for silver was 66.8 ¢ per ounce.  
Electric hoist installed on winze on Ohio 800-foot level in Tonopah 76 ground; mile haul to Ohio shaft
- 1925 Tonnage to mill 2,844 tons at \$13.63 per ton.  
Milled 38,987 tons including custom ore.  
3,000 feet development work on breccia rhyolite contact in Tonopah 76 and West End Extension claims. 3,600 tons of low-average grade ore sent to mill.  
Produced 250 tons for lease on western part of MacNamara Mabel mine shipped 927 tons of \$116.75 ore.  
\$31,251 spent on Halifax with shaft still in need of extensive repair.
- 1926 Reported production to State 18,388 tons.  
West End had good ore in Merton Vein on 800-foot level.

September 1926

Borax Smith resigned. New management took control. F. C. Ninnis, Pres., and H. D. Budelman, Gen. Mgr., - with liabilities totaling \$558,632.

The assets of the company on September 2, 1926, at the time the new management took control, were as follows:

The West End mine, mill and miscellaneous stores in Tonopah.

Large stock interests, in some cases amounting to stock control, in the West End Extension Mining Company, Tonopah Seventy-Six Consolidated Mining Company, Halifax Tonopah Mining Company, Monarch Pittsburgh Mining Company, and Santa Rosa Mining Company, none of which companies were operating or in financial condition to start operations without re-financing; together with small stock interests in other mining and chemical companies, none of which was or is salable for even a very small fraction of its potential value.

Accounts and Notes Receivable amounting to \$153,281.71, most of which was advances to some of the above listed companies, and none of which was collectible. (A resumption of work by the companies involved gives these accounts a probable future value.)

The Mabel mine, near Mina, Nev. This is a small high grade silver-gold-lead property of high potential value, but which was and still is in the development stage. The Mabel mine adjoins the old Garfield property which has a production record of over \$5,000,000 in high grade ore, one car-load from which is reported to have netted \$50,000. During the past five years the Mabel has been operated continuously, but without sufficient capital to conduct an extensive campaign of development. Production during this period amounted to 4062 tons of ore of a gross value of \$410,337.24, an average of \$101.02 per ton. The mine is opened to a depth of 600 feet by vertical shaft, and values persist into the sulphide zone, with noticeable increase in proportionate gold content with depth.



A promissory note, secured by collateral with a sale value of approximately \$20,000. (This collateral is now worth approximately \$30,000).

Sufficient cash for immediate operating needs only.

There was nothing in the entire list of assets which could be disposed of for sufficient cash to pay even a small percentage of the existing debts. To further complicate matters the Collector of Internal Revenue placed a lien against the company's assets to protect Department rights. However, we were permitted to operate and to handle the company business without interference.

1927 Reported production of 7,114 tons of ore at \$164,543.

Average price silver 56¢

Mill with capacity of 265 tons per day could not compete with T. M. Co. Millers mill for small tonnages of custom ore.

West End mill closed on October 15, 1927

October 1927

In October 1927, shortage of ore in our own mine and a decrease in custom tonnage made it economically impossible to longer operate our milling plant, and it was closed down on the 15th of that month. Since that time we have shipped our ore to the custom plant at Millers, 14 miles from Tonopah. All known ore bodies in the mine were practically exhausted. This condition, coupled with the fact that cash for necessary development work was lacking, made the situation a critical one from an operating standpoint. It made it necessary for us to practically discontinue active development, although we have since placed every dollar possible into this work, without marked success to date.

Jan 1927 - May 1929

Mine operated on lessee basis with 25 to 40 men underground. Production averaged 500 to 1,000 tons per month. This manner of operation not profitable and has no future--need to develop property (Ninnis).

1928 Reported 9,834 tons at \$215,374 - mined by leasers

1929 Shipped 4,451 tons at \$87,510 with average price for silver 53¢

May 1929

Ninnis and Budelman reorganization plan

1930 Shipped 1,880 tons at \$32,000; silver dropping to 32.6¢ on December 1930



We have paid \$3000 in cash against the legal and accounting obligation of \$14,187.73, and have effected a compromise with the creditors in which they agree to accept \$5000 as payment in full, provided this amount is paid to them on or before July 1, 1929.

We have practically wiped out the item of miscellaneous book accounts, amounting to \$55,383.79, by compromise.

In summary: We have had charge of your company's affairs for two and one half years. At the beginning of our administration the company was hopelessly in debt to the extent of \$558,632.33, and entangled in litigation as defendant in suits involving \$535,792.14, with no cash or convertible assets with which to pay off any appreciable amount of this indebtedness. At the present time the company owes about \$36,000, is free of law suits, and all assets practically intact.

As previously stated the company owns valuable undeveloped ground, both in Tonopah and near Mina, and in addition has a long term lease, on advantageous terms, on a large undeveloped portion of the adjoining Jim Butler ground in Tonopah, which appears to have excellent possibilities. In order to pay off the balance of the indebtedness and provide a fund for the development of this unexplored territory it is necessary to reorganize and refinance the company, and the following plan is to be offered for your consideration. We are reasonably assured that if this plan of reorganization is approved, the necessary financing can be obtained.

That a new non-assessable corporation be organized under the laws of the State of Nevada, with an authorized capital of one million shares, par value one dollar; four hundred thousand shares to be issued to West End Consolidated Mining Company, in consideration of the transfer of all its assets to the new company, the new company to assume the payment of all the indebtedness of the old company. This will leave the new company six hundred thousand shares with which to raise the necessary funds to pay the indebtedness of the old company and secure the necessary capital to develop and operate the properties of the new company. The stock sold to be disposed of through a syndicate, although present stockholders will be given preferential subscription rights.

Under this plan when distribution is made by the old company of the four hundred thousand shares held by it in the new company, each stockholder of record of the old company, at the time of the transfer of the assets to the new company, will receive one share in the new company for each five shares held by such stockholder in the old company.

We know of no other feasible plan by which the stockholders of the West End Consolidated can hope to realize upon their holdings.

It is imperative that prompt action be taken to obtain funds with which to pay the debts and start development work in the mines. The old company at present has no cash on hand and its debts must be paid else a total loss will result to stockholders.

Due to the urgency of the conditions confronting the company the Board of Directors has called a meeting of the stockholders to vote upon the foregoing plan outlined, a copy of which notice is enclosed herewith.

We urgently request that if you cannot be present at such meeting, you immediately sign and mail the enclosed proxy.

F. C. NINNIS, President.

H. D. BUDELMAN, Secretary.



The assets of the company on September 2, 1926, at the time the new management took control, were as follows:

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A promissory note, secured by collateral with a sale value of approximately \$20,000. (This collateral is now worth approximately \$30,000).

Sufficient cash for immediate operating needs only.

There was nothing in the entire list of assets which could be disposed of for sufficient cash to pay even a small percentage of the existing debts. To further complicate matters the Collector of Internal Revenue placed a lien against the company's assets to protect Department rights. However, we were permitted to operate and to handle the company business without interference.

All known ore bodies in the mine were practically exhausted. This condition, coupled with the fact that cash for necessary development work was lacking, made the situation a critical one from an operating standpoint. It made it necessary for us to practically discontinue active development, although we have since placed every dollar possible into this work, without marked success to date. In October, 1927, shortage of ore in our own mine and a decrease in custom ore tonnage made it economically impossible to longer operate our milling plant, and it was closed down on the 15th of that month. Since that time we have shipped our ore to the custom plant at Millers, 14 miles from Tonopah.

Mine operations during the last two and one half years, with the exception of our limited development work, have been on a leaser basis, with 25 to 40 men underground, and production has averaged from 500 to 1000 tons of ore per month. This class of operation is not profitable and has no future. The only way in which the West End Consolidated Mining Company can be made a success for its stockholders is to pay off the indebtedness and develop the property. Both the Tonopah mine and the Mabel mine have great potential value, with a large area of unexplored territory. With this idea in mind we have endeavored to reduce the liabilities to a point where it would appear to be an attractive proposition to pay off the debts and start over again, with the following success:

We have effected a compromise with the U. S. Department of Internal Revenue on the \$483,140.03 (plus any accrued interest) due for unpaid back Federal Income Taxes, for \$50,000. We have already made cash payments of \$25,000 against this amount, leaving a balance due of \$25,000, which balance must be paid within the next 12 months in quarterly installments.



Tonopah 76 Consolidated Mining Company.

This company was incorporated in 1911 in Nevada. It has been operated since 1919 under lease agreement by the West End Company and the latter company is thought to own a controlling interest. The property lies south of the Monarch Pittsburg and Tonopah Extension claims and includes four patented claims and a fraction with an area of about 60 acres. All of the mine workings, which have a total length of about 2 miles, have been driven from the 800-foot level of the West End mine. These workings are also connected <sup>through</sup> ~~with~~ raises or winzes with the Extension and Monarch Pittsburg workings.

Ore was found in the northwestern part of the property late in 1923 after about four years of fruitless development work by the West End Company. The work had been particularly difficult because of the long distance from the West End shaft and also because of the prevalence of bad air, as a result of which at least one man lost his life. The ore found extended into Tonopah Extension ground and caused an apex suit between the two companies in 1924. This was settled out of court by compromise <sup>in 1926</sup> and mining continued through 1927, when the known orebodies were exhausted. Since that time the property has been idle.



End shaft, no additional ore was found. The property has been idle since 1928.

The production of the West End Extension company is shown in the following table, taken from unpublished figures of the U. S. Geological Survey and U. S. Bureau of Mines and included here by permission of Messrs. *Ninnis* and Budelman of the West End company.

Production of the West End Extension Mining Company

Year	Tons ore	Gold ounces	Silver ounces	
1924	2,162	313.03	34,097	.918
1925	54	3.32	373	.891
1926	2,276	279.25	39,409	.953
1927	4,858	635.00	71,035	.894
1928				



## West End Extension Mining Company

The property of this company, which was incorporated in 1912, lies west of the Tonopah "76", south of the Tonopah Extension, and east of the Keystone. In 1924 a large, if not a controlling stock interest, was acquired by the West End Consolidated Mining Company and since that time, the latter company has directed mining and development. The property includes four claims and two fractions and incloses more than 70 acres.

There is no shaft on the property, the mine workings being extensions of the 800-foot level from the Ohio shaft of the West End company through the ground of the Tonopah 76. The total length of mine workings is probably about one mile.

No mining was done on the property until the discovery of ore on the ground of the adjacent Tonopah 76 company in 1923. This ore extended into the West End Extension property and stoping started in 1924. The vein in which the ore was found extended into Tonopah Extension ground and this fact resulted in litigation between the two companies in 1924 but the matter was settled by compromise in 1926. Although a moderate amount of development work was done under the handicap of unusually bad air and the long distance from the West



abandoned a number of years ago but has been kept open for purposes of ventilation. It is reported to be 780 feet deep. A shallow prospecting shaft,--the Porcupine, was sunk to a depth of 150 feet during the initial stages of prospecting. It is situated about 600 feet west of the No. 2 shaft.

Shortly after the organization of the older company an apex dispute arose with the MacNamara company whose property adjoined the West End on the north. This suit was settled by compromise in 1908. After the settlement, the West End production of direct shipping ore increased steadily until 1911 when the approaching exhaustion of the high grade shipping ore caused the company to acquire the 20 stamp mill of the Midway company. A rapid increase in production resulted from the milling of the lower grade ores that had been to some extent developed during the preceding years. The capacity of the mill was increased in 1914 by adding another battery of ten stamps and the production for that year was the largest in the company's history up to that time.

In 1914, however, apex trouble began between the West End and Jim Butler companies, which was not finally settled until 1918, when the Supreme



## West End Consolidated Mines Corporation

This company was incorporated in 1929 in Nevada to take over the the assets of the West End Consolidated Mining Company. The older company had been organized in 1906 to take over a group of claims that included the original West End claim and also those held by the Ohio Tonopah Company. The total holdings of the company inclose an area of 184,071 acres and comprise 16 patented claims and fractions. There are close to 25 miles of workings on the property. The West End company has a controlling interest in the Halifax, West End Extension, and Tonopah 76 properties and also has a considerable holding in the Monarch-Pittsburg<sup>g</sup> company.

Of the four shafts on the property, only two, the West End No. 2 (or Corkill) and the Ohio shafts have been used in recent years. The No. 2 shaft is 1025 feet deep and has been the main working shaft of the property for more than 20 years. The Ohio shaft was sunk to a depth of 780 feet by the original Ohio Tonopah company. It was later reopened and deepened to 1212 feet by the West End Company but apparently was used mainly as an auxilliary shaft by the company, the bulk of the ore from the Ohio ground being raised through the No. 2 shaft. The No. 1 or the McQuillen shaft was



The following table shows the production of the company, according to the unpublished records of the U. S. Geological Survey and U. S.

Bureau of Mines and is published by permission of Messrs. Budelman and <sup>Ninnis</sup>~~W~~ of the West End Company.

Production of the Tonopah 76 Consolidated Mining Co.

Year	Tons ore	Gold ounces	Silver ounces	
1924	1,652	205.82	20,519	1.002
1925	3,580	399.00	40,018	.997
1926	2,118	297.04	27,059	1.096
1927	2,867	476.00	50,579	.942
1928				



Bureau of Mines. They are published here with the permission of Messrs.

<sup>N</sup>  
Minnis and Budelman, the president and general manager, respectively, of

the new company. The old company paid dividends of \$1,461,901.54 through

1925 and acquired control, in addition to the Tonopah companies mentioned

above, of other mining properties in Central America and in California and

Nevada.

Also  
distributed  
stock in  
West Ed  
Chem Com  
+ Prof  
+  
also  
Opotea



limbs, one dipping to the north and the other to the south. The court further found that the crest of this anticline-like structure constituted the apex of the vein and awarded to the West End company extralateral rights on both limbs. This decision was subsequently upheld by both the State and Federal Supreme Courts.

After 1914, the production of the West End company fell off considerably during the next six years, partly perhaps because of the litigation but chiefly because of the gradual exhaustion of the ore bodies in the older part of the mine. The Ohio part of the mine was reopened in 1916 and additional ore bodies were found there. The largest of these was found on the 800-foot level and its extraction resulted in the greatly increased production made in the years from 1921 to 1923. After that year production declined rapidly.

Internal dissension among the stockholders of the company resulted in several changes in the organization and eventually caused the formation of the new company in 1929. The mill was closed in 1927 and company work in the mine ceased shortly thereafter. Leasing, however, continued through the winter of 1929-1930, but since then the mine has been closed.

The following table shows the production from the West End property, according to the unpublished records of the U. S. Geological Survey and U. S.

Biggest  
prod  
from  
500-600



Court of the United States rendered a decision in favor of the West End company. The litigation aroused a great deal of interest not only in Tonopah but also throughout the mining profession as a whole since it required somewhat new interpretations of the portions of mining law as applied to extralateral rights. The more than 1100 pages of testimony offered by the two opposing companies may be briefly summarized as follows.

The Jim Butler company challenged the right of the West End company to mine ore extralaterally (in Jim Butler ground) from the south limb of the Tonopah fault (called the MacNamara or West End vein in this region) on the grounds that the vein was a rolling, nearly flat blanket-like orebody and that at Leadville the courts had decided that such deposits carried no extralateral rights. The West End company, on the other hand, claimed that the two limbs of the vein were in reality two separate veins of different ages and that the line of intersection of the two, which fell within their boundaries, constituted the apex of the younger south-dipping vein. The District Court at Tonopah, before which the case was tried, concurred in the contention of the Jim Butler company that the two limbs were part of the same vein but held that the vein was not a blanket-like body but was rather composed of two persistent



The earliest production from the mine appears to have been made in 1906. No shipments were made in 1907 as a result of an injunction granted to the West End company during the apex litigation. Beginning with 1908, however, a moderately large production was made annually except for 1911, when shipments were suspended pending the completion of a 10-stamp mill. Late in 1914 the mine was closed on account of the low price of silver and the mill was leased for use as a sweepings plant. Production was resumed in 1916, however, and continued at a rather variable rate until 1921. Since that time the greater part of not all of the production has been made by lessees, one of whom was the West End Company in 1926. The mill is reported to have been shut down since 1922, at which time it was leased to the West End Company for a period of six months.

The production of the mine is shown in the following table. The original company paid dividends amounting to \$40,213; since 1914, however, twelve assessments had been levied by the new organization, which controls the MacNamara Crescent and also one or more properties in California.



## MacNamara Mining and Milling Company

This company was incorporated in 1914 as a reorganization, on an <sup>ss</sup> <sup>a</sup> ~~accessible~~ basis of the MacNamara Mining Company, which appears to have been organized in about 1902. The company owns two patented claims with an area of about 15 acres that are surrounded by the properties of the Tonopah Mining Company, the Tonopah Extension, and the West End. It also owns two claims that are adjacent to the ground of its subsidiary, the MacNamara Crescent Development Company of Nevada. The main shaft on the property is about 800 feet deep and from it have been driven one or two miles of workings.

The early history of the company was marked by several disputes with its neighbors. The first of these was with the Tonopah Mining Company and was over title to the land covered by the overlapping MacNamara and Buckboard claims. This suit was settled in favor of the Tonopah Mining Company. In 1905 or 1906 apex litigation started with the Tonopah Extension company, and a similar suit with the West End company began in 1906 or 1907. These were finally settled in 1908 and 1909 by compromise, with the establishment of vertical side lines.



Year	Tons ore	Gold in ounces	Silver in ounces	
1905	200	125.77	12,104	1.038
1906	1,008	867.12	89,828	.955
1907	330	256.10	20,858	1.227
1908	2,949	1,682.24	165,738	1.015
1909	7,115	3,655.75	334,514	1.093
1910	13,497	4,259.34	414,247	1.028
1911	13,909	3,830.55	325,527	1.177
1912	40,718	8,716.45	799,072	1.093
1913	51,501	11,680.13	1,171,734	.997
1914	60,310	11,850.05	1,180,149	1.004
1915	42,784	9,293.16	893,431	1.040
1916	35,408	6,415.16	641,689	1.000
1917	45,910	6,713.97	629,147	1.067
1918	51,632	8,493.67	789,764	1.075
1919	33,140	5,936.88	529,347	1.121
1920	53,039	9,583.11	862,026	1.113
1921	74,674	13,203.90	1,188,644	1.109
1922	98,181	15,227.00	1,384,000	1.101
1923	70,458	12,239.79	1,128,135	1.085
1924	44,497	8,616.14	787,727	1.093
1925	28,440	4,440.89	384,086	1.156
1926	18,338	3,300.00	303,390	1.087
1927	7,114	2,350.00	216,607	1.085
1928				
1929	(5,693)			
1930				
1931				



MacNamara Crescent Development Company of Nevada

This company was incorporated in 1921 as a reorganization of the MacNamara Crescent Mining Company. It is controlled by the MacNamara Mining and Milling Company through a 70 per cent stock ownership. The company owns 9 claims, enclosing 144 acres, lying south of the West End property.

A shaft 1,222 feet deep has been sunk on the property on the west side of Mount Brougher and from it a northwest crosscut 2,019 feet long and a northeast crosscut 700 feet long have been driven on the 1200 foot level. The property has been inactive since 1925. Neither the shaft nor the crosscuts were examined during this survey but H. D. Budelman has informed the writer<sup>1/</sup> that all of the workings are in rocks similar to the Fraction Breccia.

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<sup>1/</sup>Personal communication.

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No production has been made from the property. ~~4~~<sup>1</sup> Mine assessments had been levied up to 1930 to prosecute work on both the Tonopah property and another in California.



## Rescue-Eula Mining Company

The Rescue-Eula Mining Company was incorporated in 1910 as a consolidation of four patented claims that are situated south of the Tonopah Belmont and east of the Jim Butler. The property has an area of about 80 acres. Work on the component claims started much earlier than 1910, however, for the Rescue shaft had been sunk to a depth of more than 300 feet in 1903. The shaft has since been deepened to nearly 1100 feet and from it workings have been driven that probably aggregate 3 or 4 miles ~~in~~ in length. These are connected with the Belmont, Buckeye and Tonopah Mining companies' mines.

There is no record of any shipments from the property until 1915 when a small tonnage was mined. In the succeeding two years, a moderately large production was made, probably from the Rescue vein adjacent to Belmont ground. From 1918 through 1927 a small production was made annually but mining was probably conducted at a loss throughout this period. In 1925 the company did considerable development work from the Buckeye shaft, but the work apparently failed to disclose any considerable amounts of ore. Some leasing was done from 1926 to 1928 but since then the mine has been closed.



Production of the MacNamara Mine

Year	Ore tons	Ounces gold	Ounces silver	
1906	670	1,197.81	73,915	1.621
1907	---	---	---	---
1908	8,600	3,914.99	352,400	1.112
1909	16,311	5,796.70	473,136	1.225
1910	7,376	2,455.00	215,040	1.141
1911	630	228.00	18,254	1.250
1912	19,225	2,528.97	237,659	1.064
1913	27,848	2,836.71	265,420	1.068
1914	8,346	631.00	45,471	1.387
1915	---	---	---	---
1916	1,024	432.77	35,482	1.219
1917	5,623	524.15	48,347	1.085
1918	21,767	1,819.68	166,691	1.092
1919	7,858	392.90	38,191	1.029
1920	10,833	1,083.00	116,042	.934
1921	1,914	413.45	36,077	1.146
1922	2,621	484.32	42,290	1.145
1923	899	138.05	11,649	1.185
1924	---	---	---	---
1925	---	---	---	---
1926	105	16.00	1,789	.895



disclosed several additional veins which were of higher grade and a moderately steady production was made from these through 1910. Part of this production was either shipped to smelters or sent to custom mills but part of it appears to have gone to the Midway mill, which had been erected in 1902 or 1903 by a combination of Midway stockholders and Mizpah (Tonopah Mining Company) leasers. This was built as a 10-stamp pan amalgamation mill but in 1906 was enlarged to 20-stamps and operated by the Tonopah Mining company as a concentrating, leaching, and slime plant. In 1911 the mill was sold to the West End Company.

The gradual exhaustion of the deposits in the vicinity of the No. 1 shaft caused the company to sink the new shaft in the hope of finding continuations of the orebodies then being exploited by the Merger and by the Tonopah Mining Company on its Red Plume claim. The old workings were turned over to lessees, among whom was the Montana Tonopah company, which obtained a lease on part of the property in 1914.

Some ore was found in the workings from the new shaft and this, together with continued production by lessees from the old workings, provided a continued small annual production through 1924. Prospecting on the deeper levels of the No. 2 shaft is reported to have continued until 1927 but since



## The Midway Mine

The Midway Mine has been owned by the Tonopah Divide Company since 1924 when the stock of the Tonopah Midway Consolidated Mining Company was exchanged for stock of the Divide company on the basis of 7 Midway shares for one Divide share. The Tonopah Midway Consolidated Mining Company was incorporated in 1915 as a reorganization of the Tonopah Midway Mining Company which had been formed in 1901 or 1902 and was thus one of the pioneer Tonopah companies. The property includes five patented claims that have an area of 50.58 acres.

The property has been developed by two shafts, from which probably 10 or 12 miles of workings have been driven. The older or No. 1 shaft was started in 1902 and reached a depth of about 850 feet. Company work through this shaft ceased in 1914 and it is now caved. The No. 2 shaft was started in 1912 and is 1600 feet deep. Winzes have been sunk below the bottom levels from each shaft.

The initial work from the No. 1 shaft disclosed small quantities of ore at depths from 450 to 600 feet below the collar and a small <sup>tonnage</sup> quantity of this was shipped in 1904. Additional development work above this depth



In 1928 the company bonded a mining property in California and since then has confined its activities outside of Tonopah.

The production of the company is shown in the following table.

Dividends amounting to \$35,539 are reported to have been paid, probably in the years 1915-1916 but since then operations have been conducted by the aid of assessments, 21 of which had been levied through 1928.

Production of the Rescue-Eula Mining Company

Year	Tons ore	Gold ounces	Silver ounces	
1915	10	5.61	483	1.161
1916	7,898	2,270.61	223,325	1.016
1917	8,919	2,020.99	185,651	1.088
1918	1,613	278.16	25,956	1.072
1919	2,120	507.96	50,881	.999
1920	4,380	904.00	82,011	1.102
1921	2,965	656.00	56,908	1.152
1922	4,030	910.00	85,069	1.069
1923	989	207.44	19,668	1.054
1924	834	151.67	13,954	1.088
1925	1,576	249.66	22,875	1.091
1926	262	56.68	5,144	1.102
1927	94	14.17	1,253	1.131
1928				
1929				
1930				



$\begin{array}{r} 572 \\ 3220 \\ 2323 \\ \hline 897 \end{array}$ $\begin{array}{r} 5740 \\ 4860 \\ \hline 880 \end{array}$	$\begin{array}{r} 3900 \\ 3220 \\ \hline 680 \end{array}$ $\begin{array}{r} 541 \\ 4860 \\ 4182 \\ \hline 678 \end{array}$	$\begin{array}{r} 3475 \\ 3220 \\ \hline 255 \end{array}$ $\begin{array}{r} 54M \\ 4860 \\ 4614 \\ \hline 246 \end{array}$	$\begin{array}{r} 3900 \\ 2323 \\ \hline 1577 \end{array}$ $\begin{array}{r} 241 \\ 5740 \\ 4182 \\ \hline 1558 \end{array}$	$\begin{array}{r} 3475 \\ 2323 \\ \hline 1152 \end{array}$ $\begin{array}{r} 24M \\ 5740 \\ 4614 \\ \hline 1126 \end{array}$	$\begin{array}{r} 3900 \\ 3475 \\ \hline 425 \end{array}$ $\begin{array}{r} 4614 \\ 4182 \\ \hline 432 \end{array}$
$\begin{array}{r} 2428 \\ 2088 \\ \hline 340 \end{array}$ $\begin{array}{r} 1710 \\ 1362 \\ \hline 348 \end{array}$	$\begin{array}{r} 2428 \\ 1744 \\ \hline 684 \end{array}$ $\begin{array}{r} 2050 \\ 1362 \\ \hline 688 \end{array}$	$\begin{array}{r} 3212 \\ 2428 \\ \hline 784 \end{array}$ $\begin{array}{r} 1362 \\ 585 \\ \hline 777 \end{array}$	$\begin{array}{r} 2088 \\ 1744 \\ \hline 344 \end{array}$ $\begin{array}{r} 2050 \\ 1710 \\ \hline 340 \end{array}$	$\begin{array}{r} 3212 \\ 2088 \\ \hline 1124 \end{array}$ $\begin{array}{r} 1710 \\ 585 \\ \hline 1125 \end{array}$	$\begin{array}{r} 3212 \\ 1744 \\ \hline 1468 \end{array}$ $\begin{array}{r} 2050 \\ 585 \\ \hline 1465 \end{array}$

TM {  
 TM Co 4860 W = Ext 3220 E  
 ∴ TM Co 0 = Ext 8080 E  
 + Ext 0 = TMCo 8080 W  
 TM Co 1362 S = Ext 2428 N  
 ∴ TM Co 0 = Ext 3790 N  
 + Ext 0 = TMCo 3790 S  
 Midway 2274 E = Ext ~~5138 E~~  
 ∴ Midway 0 = Ext 2864 E  
 + Ext 0 = Midway 2864 W  
 Midway 2294 N = Ext 2022 N  
 ∴ Midway 0 = Ext 272 S  
 + Ext 0 = Midway 272 N  
 West End 2310 E = Ext. 2310 E  
 ∴ Ext. 0 = W.E. 6 W  
 West End 6460 N = Ext. 2084 N  
 ∴ Ext. 0 = W.E. 4376 N  
 18 E 2N | over |

TM 3790 S = Mid 272 N  
 TMCo 8080 W = Mid 2864 W  
 20 S  
 37 S  
 8080  
 2942  
 5138  
 3790  
 1768  
 2022  
 4376 E  
 5138  
 2274  
 2864  
 2294  
 2022  
 272  
 WE 6 W = TMCo 8080 W  
 TMO = WE 8074 E  
 WE 4376 N = TM 3790 S  
 TMO = WE 8166 N  
 Mid 2864 W = WE 6 W  
 Mid 0 = 2858 E (WE  
 Mid 272 N = WE 4376 N  
 Mid 0 = WE 4104 N



Ext 0 = TMC 8080W

Ext 0 = TMC 3790S

Ext. 0 = Belmont 3794 S ; Belmont 0 = Ext. 3794 N

Ext. 0 = Belmont 8084 W ; Belmont 0 = Ext. 8084 E,

TMC 3790S



Production from the Midway Mine

Year	Ore tons	Gold ounces	Silver ounces	
1904	382	169.31	12,780	1.325
1905	4,000	3,541.34	348,056	1.018
1906	3,782	1,500.84	150,682	.992
1907	3,783	3,041.34	259,680	1.172
1908	6,480	3,494.42	268,800	1.301
1909	4,546	3,078.39	233,962	1.315
1910	2,571	1,537.03	110,203	1.383
1911	2,035	1,043.25	83,269	1.253
1912	694	338.35	22,866	1.480
1913	2,086	611.35	62,288	.982
1914	973	261.69	22,412	1.167
1915	2,028	1,090.15	108,363	1.006
1916	3,362	1,007.85	93,875	1.074
1917	1,533	359.46	37,056	.970
1918	762	407.58	35,488	1.148
1919	3,003	711.41	61,174	1.164
1920	5,219	1,192.23	114,948	1.038
1921	1,369	232.84	22,113	1.052
1922	1,160	241.88	21,777	1.111
1923	1,309	355.47	25,358	1.402
1924	878	206.12	13,552	1.520



then the mine has been closed.

The following table shows the production of the mine from 1904 to 1924, and is taken from unpublished records of the U. S. Geological Survey and the U. S. Bureau of Mines. It is published by permission of Mr. E. J. Erickson of the Tonopah Divide Company. The original Midway company is reported to have paid \$250,000 in dividends during the early years of its existence. The reorganized company levied assessments totaling \$232,470.94 through 1923.



work to the 1500-foot level from the Belmont shaft, which was extended into North Star ground. Their lease was cancelled in 1926 and a new one granted to Warren Richardson of Tonopah, who made a small production in the succeeding years. The mine has been idle since 1929.

The following table shows the production of the North Star mine since 19<sup>0</sup>5. The operations of the company have been conducted at a loss most of the time, since 25 assessments had been levied up to 1930. The company is reported to control mining property in California and a group of five claims 3 miles west of Tonopah as well as the North Star mine.



## North Star Tunnel and Development Company

This company was incorporated in 1902, although title to the mine was not finally acquired until 1904 when the U. S. District Court at Carson City found in favor of the company. Five patented claims comprise the property and enclose an area of 46 acres. The North Star shaft is 1250 feet deep and from it have been driven workings with an aggregate length of 2 or 3 miles.

The first work upon the property appears to have been done in 1901 or 1902 and some ore is reported by Spurr<sup>1/</sup> to have been shipped prior

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<sup>1/</sup>Spurr, J. E., Geology of the Tonopah mining district, Nevada: U. S. Geol. Survey Prof. Paper 42, p. 178, 1905.

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to 1905. In this earlier work, a long tunnel was driven beneath Mount Oddie in addition to the work done from the North Star shaft. Production was sporadic until 1913, when moderately large shipments of ore were started and these continued into 1914. This increase in production was not accompanied by an increase in ore reserves, however, and from 1915 to 1923 the annual production was small. Company work in the mine ceased in the latter year and the Tonopah Belmont Company took a lease on the property, but confined their



# Coordinates of shafts.

	Ext	T M Co	Midway	West End
Victor	{ 2537 E 4263 N			
Cash Bay	{ 1938 E 3672 N			
Mc Kane	{ 807 E 2639 N			
Sand Grass	{ 3220 E 4428 N	{ 4860 W 1362 S		
Ext No 2.	{ 2323 E 2088 N	{ 5740 W 1510 S		
Ext No 1.	{ 3900 E 1744 N	{ 4182 W 2050 S		
Merger	{ 3475 E 3212 N	{ 4614 W 585 S		
Red Plume		{ 3300 W 2000 S		
Midway No 1	{ 5138 E 2022 N } Calc	{ 2942 W 1768 S	{ 2274 E 2294 N	
Midway No 2.		{ 3772 W 383 S	{ 1440 E 3680 N	
Homeshead	{ 1190 E 4390 N			
West Tongah	{ 3000 W 2110 N			
Ohio			MP cond	2463 E 5670 N
Monach Pittsburg			4925 E 5049 N	
corner			4300 E 4700 N	400 E 6000 N
corner.			West End Ext 4 Twp 76 500 N 200 W	4900 N 100 W
Fraction No 1 - NE cor.			{ 3630 S 2976 W	Belmont coordinates.
Fraction No 2 - SW cor.			{ 3700 S 3400 W	
Wandering Boy - N cor.			{ 3917 S 2770 W	

Mon Pitts 3900 E = WEO  
Mon Pitts 1300 S = WEO



$$\begin{array}{r} \text{Ext } 0 = 747000 \\ 4000 \\ \hline 407000 \end{array}$$

$$\begin{array}{r} \text{Ext } 0 = \text{Ext } 379000 \\ 1700 \\ \hline 380700 \end{array}$$

$$\begin{array}{r} 50622 \\ 251 \\ \hline 50647 \end{array}$$

$$\begin{array}{r} 10805 \\ 3000 \\ \hline 13805 \end{array}$$

$$\begin{array}{r} \text{Ext } 0 = 142000 \\ 21300 \\ \hline 163300 \end{array}$$

$$\begin{array}{r} 12 \\ 30 \\ 40 \\ \hline 82 \end{array}$$

$$\begin{array}{r} \text{Ext } 0 = 747379000 \\ 22600 \\ \hline 747401600 \end{array}$$

$$\begin{array}{r} \text{Ext } 0 = 111000000 \\ 22200 \\ \hline 111222000 \end{array}$$



caused renewed activity throughout the eastern part of the district. Sinking of the Halifax No. 2 shaft was resumed late in 1911 or early in 1912 and ~~some~~ rather erratic orebodies were found on the 1,000- and 1400-foot levels, which provided some small shipments. Late in 1914 ~~some~~ rich ore was found on the 1200-foot level and rather large shipments were made during the next two years from the ore shoot of which it was a part.

Although considerable exploration was done, the continuation of this orebody was not found and the company took a lease on the Mizpah Extension mine to the north, at the same time opening its own mine to lessees. One of these, in raising from the 1,000-foot level south of the shaft, discovered another rich ore shoot in 1921. This body also produced a considerable amount of ore <sup>but</sup> ~~and~~ after its exhaustion in 1923, company work practically ceased. A small production was made in the next few years, chiefly by lessees, but in 1926 all work ceased and the mine has been closed since then.

The following table shows the production of the Halifax mine according to the unpublished records of the U. S. Geological Survey and U. S. Bureau of Mines. It is published here by permission of Messrs. Ninnis and Budelman of the West End company.



## Halifax Tonopah Mining Company

The Halifax Tonopah Mining Company was incorporated in 1902.

In 1912 the West End company acquired, through exchange of stock, a large interest, to which it added in subsequent years, until in 1915 it owned approximately one-half of the outstanding stock. In 1922 it was reported to have purchased the shares owned by the Kearns estate, which constituted practically all of the remaining stock, thus giving the West End company nearly complete ownership. The property lies immediately east of the Belmont claims and includes four patented claims that have an area of 81 acres.

Two shafts have been sunk upon the property: the No. 1 shaft with a depth of 800 feet, which has been abandoned for many years; and the No. 2 shaft to the west, which is about 1,725 feet deep. About 5 miles of workings have been driven from the No. 2 shaft, but the shaft itself in 1930 was partially caved and access to the upper levels of the mine was had only from the Belmont shaft by way of the Mizpah Extension workings.

Some work was done upon the property from about 1902 to 1905 but no ore was found and the property lay idle until the discovery of the Belmont vein immediately west of the Halifax. The remarkable richness of this deposit



Production of the North Star Tunnel and Development Company

Year	Ore tons	Ounces gold	Ounces silver	
1905	522	329.05	36,551	.901
1906	750	523.52	32,307	1.618
1907	included in Montana - Tonopah production			--
1908	505	178.41	15,015	1.188
1909	---	---	---	---
1910	---	---	---	---
1911	---	---	---	---
1912	494	686.12	9,695	.708
1913	9,927	3,006.15	272,368	1.103
1914	5,333	1,326.00	131,728	1.007
1915	1,391	723.40	18,095	4.000
1916	1,313	366.04	28,978	1.263
1917	920	270.34	19,294	1.401
1918	682	152.00	14,226	1.068
1919	634	100.92	9,508	1.062
1920	804	179.12	15,458	1.158
1921	399	94.20	7,785	1.210
1922	799	228.95	20,154	1.136
1923	528	193.09	17,491	1.104
1924	---	---	---	---
1925	---	---	---	---
1926	93	52.13	4,787	1.089
1927	481	230.90	21,246	1.086
1928				
1929				

93.3



west of the North Star and east of the Midway. The main working shaft is somewhat over 800 feet in depth and from it nearly twenty miles of workings have been driven. Additional mine workings on the property have been extended from the Gypsy Queen and <sup>ti</sup>Umayella shafts. A 40-stamp mill adjoins the main shaft.

Shipments from the Montana started in 1903 and continued until the completion of the mill in August, 1907. Some phenomenally rich ore was extracted during the shipping period, one of the stopes on the MacDonald vein being known as Ruby Alley from its high content of ruby silver. The maximum production was reached in 1909 but was held at nearly as high a point until 1912. In that year the Commonwealth Mine in Arizona was bought and \$250,000 in bonds issued to finance the erection of a mill on the new property. The decline in the price of silver that marked the beginning of the World War, however, caused the Commonwealth venture to be much less successful than had been hoped and also seriously impaired the profit obtained from Tonopah operations. This fact, together with a lack of developed ore caused the Tonopah mine and mill to close early in 1915. The mine was then opened to lessees, who produced during the succeeding seven or eight years a considerable amount



## Montana Tonopah Mine

This mine was originally owned by the Montana Tonopah Mining Company, which had been incorporated in 1902. In 1912 the company was reincorporated as the Montana Tonopah Mines Company, probably to make possible the acquisition of new properties. This company became involved in financial difficulties in 1915 and in 1916 a part of its property was deeded to the After All Mines Company. The company was refinanced in 1923 and reincorporated as the Montana Tonopah Company, Reorganized. At this time control of the After All Mines was acquired and its properties merged with the new company. Five claims and a fraction were purchased from the Mizpah Extension Company at this time and 20-year leases were obtained on two other claims of this company as well as on all of the ground of the Gypsy Queen below the 1650-foot level. In March, 1930, the property of the new company was advertised for sale by the sheriff as a result of default on a \$300,000 bond issue that had been floated in 1924.

The property of the reorganized company is reported to include 39 claims, but the greater part of the mining has been done on the two most southerly claims which are north of the Tonopah Mining Company's property,



Production of the Halifax Tonopah Mining Company

Year	Ore tons	Ounces gold	Ounces silver	
1913	1,262	296.02	27,373	1.082
1914	3,983	804.23	80,535	.999
1915	1,851	317.34	31,970	.994
1916	6,806	2,265.12	203,009	1.116
1917	3,402	1,057.02	102,430	1.032
1918	1,695	276.00	28,382	.972
1919	1,703	140.97	14,409	.978
1920	6,532	748.20	73,939	1.012
1921	1,888	706.54	74,525	.949
1922	7,523	1,312.00	152,671	.860
1923	8,598	1,687.38	208,388	.810
1924	381	100.96	12,173	.831
1925	753	134.80	15,886	.848
1926	66	12.72	1,247	1.019



Production of Montana Tonopah Mining Company and its successors

Year	Tons ore	Ounces gold	Ounces silver	
1902				
1903	1,263	2,591.40	292,029	.888
1904	2,903	2,910.40	274,614	1.060
1905	9,106	7,587.47	807,364	.940
1906	4,352	2,844.93	283,558	1.003
1907	19,835	4,912.53	472,665	1.039
1908	47,578	7,861.52	766,279	1.026
1909	41,692	9,941.40	1,018,921	.976
1910	51,863	9,497.24	930,533	1.020
1911	51,077	9,802.43	915,950	1.068
1912	53,920	10,518.02	913,461	1.152
1913	54,184	7,530.55	622,680	1.208
1914	44,832	6,198.51	454,268	1.364
1915	3,994	1,547.42	144,420	1.072
1916	7,574	3,143.84	280,458	1.121
1917	6,277	2,754.11	226,330	1.216
1918	9,657	4,759.01	364,789	1.304
1919	12,030	3,596.80	328,020	1.096
1920	12,196	3,790.70	344,485	1.101
1921	6,945	2,246.10	214,375	1.047
1922	4,877	1,564.97	129,268	1.211
1923	2,737	1,089.91	101,231	1.077
1924	666	275.48	18,231	1.511
1925	779	178.62	15,622	1.143
1926	---			
1927	85	23.65	1,776	1.331
1928				
1929				
1930				
1931				
1932				



## Tonopah Oriental Mining Company

The Tonopah Oriental Mining Company is probably the owner of the property that belonged to the New York Tonopah Mining Company at the time of Spurr's examination. Spurr reports that the shaft was 745 feet deep and exposed breccias and tuffs.<sup>1/</sup> These probably belong to the Fraction breccia

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<sup>1/</sup> Spurr, J. E., Geology of Tonopah mining district, Nevada: U. S. Geol. Survey Prof. Paper 42, pp. 200-201, 1905.

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and Esmeralda formation. The shaft appears to have been deepened after Spurr's visit as some lateral work is said to have been done on the 800-foot level in 1906.

The last information regarding the property is a news note<sup>2/</sup> appear-

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<sup>2/</sup> Eng. and Min. Jour., vol. 112, p. 72, 1921.

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ing in 1921 to the effect that ownership to the property was in dispute. The shaft was not examined during this survey.



of relatively high grade ore. From the royalties obtained from the lessees, the larger part of the Commonwealth bond issue was retired with interest. After the reorganization in 1923, some deep development work was done from the Gypsy Queen shaft but no ore was mined. Leasing was continued in the old workings of the Montana but the amount of ore extracted has been small and none at all has been shipped since 1929.

The following table shows the production from the Montana mine as shown by unpublished records of the U. S. Geological Survey and the U. S. Bureau of Mines. They are published here by permission of Mr. Fred Cole. The Montana Tonopah Mining Company and the Montana Tonopah Mines Company paid dividends through 1913 aggregating \$530,000 in addition to the investments of the latter company in the Commonwealth Mine.



1911-12 (Continued)

Devel. Cost, labor	\$0.968	
" " , Supplies	<u>0.382</u>	
		\$1.350/ton
Mining & Development cost		<u>\$4.325/ton</u>

Direct costs:

Mining.....	\$2.976/ton
Development .....	1.350/ton
Diamond drilling .....	.077/ton
Milling .....	2.960/ton
General Expense .....	.431/ton
Maintenance .....	.201/ton
Marketing .....	.776/ton
	<u>\$8.771/ton</u>

Indirect cost ..... .548/ton

Total cost ... \$9.319/ton

Total tons hoisted - 72,749 tons including 18,875 tons of waste.

In addition to waste hoisted large tonnage used to fill stopes.

Development 10,076' plus 1,047-1/2 feet diamond drilling. Diamond drilling cost \$3.95/foot

Development found good ore body on shaft vein (see annual report for good description of shaft vein)

Ore reserves 32,000 tons

Sold bonds to build 350 tpd mill for Commonwealth Mining and Milling Co in Arizona.

Development costs:

Drilling	\$5.90/foot
Cross cutting	4.72/foot
Raising	4.87/foot
Sinking	<u>10.30/foot</u>

Avg \$5.23/foot

1912 - 13

Mined and milled 52,362 tons at \$12.704/ton heads and \$1.124/ton tails

Gold - 8,987.03 oz

Silver - 785,363.2 oz

Recovery:

428.38 tons concentrates	2825.95 oz Au & 165,587.5 oz Ag
581,893.30 oz Bullion	<u>5663.95 oz Au &amp; 541,247.9 oz Ag</u>
Total	8489.90 oz Au & 706,835.4 oz Ag

Extraction 91.2% (94.5% Gold and 90.1% Silver)

Avg. price of silver received - \$0.6115/oz



1910-11 (continued)

Shipments - 882.09 tons of concentrates at \$303.66 gross value per ton (\$248,383 estimated net value)  
 39,028 pounds of bullion - avg. fineness gold 12.31, silver 910.36 (\$413,050.50 estimated net value)  
 Development - 9,932 feet plus 1,086-1/2 feet of diamond drilling.  
 Mining & millings costs \$9.38/ton leaving \$3.28/ton net profit.  
 Total tons hoisted 70,552 tons including 18,460 tons of waste.  
 Large portion of waste broken in development was used to fill stopes but it was found cheaper to hoist waste than to tram it some distance.

Mining costs -	labor	\$2.448/ton
	supplies	0.912/ton
		<u>\$3.360/ton</u>

Development costs	1.550/ton
Diamond drill costs	0.050/ton
Mining & Development costs	<u>\$4.960/ton</u>

Costs	
Drifting	\$5.91/foot
Crosscutting	5.66/foot
Sinking	17.10/foot
Raising	6.29/foot
Avg	6.14/foot
Diamond drilling	2.62/foot
(Do - vertical)	3.04/foot
(Do - inclined)	1.67/foot

Ore reserves 19,000 tons difficult to approximate because veins are so irregular and broken and faulting so intense.  
 Milling costs \$3.09/ton

1911 - 12 Mined and milled 53,874 tons at \$15.341/ton heads and \$1.533/ton tails. Avg price of silver \$0.5896/oz  
 Gold 10,959.75 oz. (recovered 10,162.3 oz)  
 Silver 1,017,206.12 oz (recovered 905,032 oz)  
 710.93 tons concentrates - 3,712.32 oz Au & 338,894 oz Ag.  
 616,848.5 oz of Bullion - 6,449.98 oz Au & 566,137 oz Ag for 92.7 % extraction of gold & 88.9 % silver for total extraction of 90.0%

Milling costs	
Direct labor	\$0.627/ton
Equip. operating	0.078/ton
Indirect labor	0.173/ton
Supplies	1.906/ton
Maint.	0.176/ton
Total	<u>\$2.960/ton</u>

Mining Costs	
Labor	\$2.182/ton
Supplies	0.793/ton
Total	<u>\$2.975/ton</u>



Montana-Tonopah Mining Company

- 1902 Incorporated  
Shaft 250' from Mizpah side line sunk in barren ground. At 370 feet encountered ore bearing formation.  
Crosscut on 392' level hit rich Montana vein  
Crosscut on 462' level hit MacDonald vein high in silver sulphides.
- 1903 Shipped 1,700 tons - \$153,000  
1903-06 shipped a total of 18,000 tons for \$1,000,000 return
- 1906 New surface plant - 60-foot steel head frame and double drum steam hoist.
- 1907 Started 40 stamp mill in Sept. (first to install tube mill to follow stamps) Also, first to use zinc dust to ppt values from cyanide solutions, sulphides concentrated on tables and vanners.  
Mill capacity 160 tpd.
- 1908 Treated 150 tpd grinding 70% minus 200 using 2.2 pounds of cyanide and 9.0 pounds of lime per ton. Over 90% extraction. Montana ore high in refractory minerals stephanite and polybasite.  
To operate mill at capacity - 50 tpd of MacNamara ore treated - later North Star ore
- 1908-09<sup>09</sup>  
Production 41,692 tons (with 17,848 tons from MacNamara)  
On 765' level explored to the north for 2,000' - drifted 1,000' and diamond drilled 850' all in barren ground.
- 1909-10  
Production 50,245 tons at \$15.22/ton <sup>h</sup>heads, and \$1.43/ton tails for 90.8% extraction  
Mining & milling costs \$10.26/ton leaving \$2.68/ton net profit  
Development 10,681 feet. - 2,810 feet to north in rhyolite (still no ore to north)  
Purchased Oddie-Eagan group  
Spurr's 50 page report on Montana Mine did not present present or future value of the property.  
Mining cost \$3.414/ton  
Development cost \$1.814/ton  
Ore reserves 26,000 tons  
Milling costs \$3,734/ton
- 1910-11 Mined and milled 52,092 tons at \$14.57/ton heads and \$1.35/ton tails for 90.7% extractions (avg. price of silver for period \$<sup>9.</sup>0.5355)



1915-1916

Produced 13,000 tons for \$370,000 or 18 tons a day at \$28.50/ton  
Continued to prospect at depth by Umatilla property maximum of \$6,000  
work per year.  
Production by leasers

1917-20

Produced 53,965 tons about \$40/ton for value of \$2,180,000 (net? return)  
1918 leased Gipsy Queen below 1,650 level vein 4'-7' wide avg \$250 to \$1000/ton

1920-1925

Produced 24,833 tons about \$32/ton for \$821,000

1922

Purchased Umatilla's interest in the Afterall claim  
Got 20 year lease on Gipsy Queen property.  
Purchased 5 claims of the Boston Tonopah Group from Mizpah Extension Co.  
Leased the Blackbird and Sparrow claims which includes the Mizpah Extension's shaft.  
Montana shaft down to 865'

1924

Started sinking Gipsy Queen shaft from 1400' to 1800'

1925

Stopped sinking July 1925 and all work stopped in Sept except pumping  
Produced only 905 tons at \$18

1930

Claims advertized for sale by sheriff.



1914 (continued)

Direct Costs:

Mining .....	\$2.377/ton
Development .....	1.207/ton
Milling .....	2.734/ton
General Expense ....	.429/ton
Maintenance.....	.185/ton
Marketing .....	.337/ton

\$7.269/ton

Indirect costs

.518/ton

Total

\$7.784/ton

Mining Costs:

Labor .....	\$1.773/ton
Supplies .....	.410/ton
Power .....	.194/ton

Total

\$2.377/ton

Development 13,683 feet including Midway and Umatilla work at \$7.25/foot.  
No ore found on Midway or Umatilla

Development costs:

Labor	\$0.894/ton	\$5.231/foot
Supplies	0.234/ton	1.369/foot
Power	0.079/ton	.463/foot
Avg	<u>\$1.207/ton</u>	<u>\$7.063/foot</u>

Milling 63,754.55 tons at 0.137 oz gold and 10,965 oz silver per ton  
or \$8.99/ton heads.

Recovery:

343 1/4 tons concentrates	2736.86 oz Au & 124,355 oz Ag
576,476 oz of bullion	5661.93 oz Au & 520,437 oz Ag

Total

8398.79 oz Au & 644,792 oz Ag

Tails

375.05 oz Au & 54,280 oz Ag

Heads

8773.83 oz Au & 699,072 oz Ag

93.3 % extraction (95.7 % Gold and 92.2% Silver)

Milling costs:

Labor	\$0.759/ton
Supplies	1.406/ton
Power	.569/ton
	<u><del>\$2.734/ton</del></u>

Mill shut down because \$8 ore could not be milled at a profit.



1912 - 13 (Continued)

Direct Costs:

Mining .....	\$2.620/ton
Development .....	1.364/ton
Milling .....	3.121/ton
Gen. Expense .....	.404/ton
Maintenance .....	.197/ton
Marketing .....	.461/ton
	<hr/>
	\$8.167/ton

Indirect costs	.384/ton
	<hr/>

Total	\$8.551/ton
-------	-------------

Total tons hoisted 69,189 including 16,827 tons of waste.

Milling cost:

Labor.....	<sup>0.815</sup> <del>\$3.121</del> /ton ✓
Supplies.....	1.780/ton
Power .....	.526/ton
	<hr/>
	\$3.121/ton

(See annual reports for breakdown of costs)

Development 10,243 feet (no new veins found)

Development costs:

Drifting	\$5.29/foot
Crosscutting	4.42/foot
Raising	4.26/foot
Sinking	16.29/foot
Avg	<hr/>
	4.86/foot

Sinking required <sup>a</sup>logging timber.

Collar of Umatilla shaft is 102' above collar of Montana shaft.

Umatilla drove x-cut on 1,200 level (1,302' level of Montana) into

the Little Tonopah claim of Montana at 1/2 expense to Montana

Quit using vanners for concentrating ore - no ore reserves given.

1914 15 months report

Mining smaller ore bodies and narrower veins. Stopped milling

Nov. 15th because small tonnage left was low grade and silver price dropped. Southern area thoroughly prospected from surface to 765 level at which point an intrusive cuts off ore at depth.

14 years operation - 18.42 miles of development work. Extensive cross-cuts in North both from Montana shaft and Umatilla shaft and same property line to Golden Crown claim found no ore.

3 yr contract to mine east portion of Midway Mine.

Tons hoisted 76,304 tons including 12,481 tons of waste (2,040 tons waste from Midway)

Mined and milled 63,551 tons at \$8.793/ton heads including 8,122 tons from midway lease at \$5.84/ton heads

11,793 feet development work including 1,228 feet on Midway lease.



WEST END CONSOLIDATED MINING CO.  
REPORT

1908

Report - West End Consolidated Mining  
Company

1908

(259) Item 118

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4840 0890

(MICRO FILMED AS  
4840 0118)



REPORT ON WEST END MINE, TONOPAH, NEVADA

Tonopah, Nevada, August 6, 1908.

Mr. F. M. Smith,  
President, West End Consolidated Mining Co.,  
Oakland, California.

Dear Sir: I am in reply to your letter of August 1st.

Following is our report on the West End mine, at  
Tonopah. This report covers geological conditions and their  
application, as well as a policy of developing the mine,  
including cut and veinage, and the various operations of  
the mine.

SUMMARY

In the West End mine are the following rock formations,  
in descending order: dacite breccia, later andesite, early  
andesite, West End dacite, and lower andesite. The West End  
lode is a body of quartz occurring at the upper contact of  
the West End dacite. The amount of quartz is irregular, but  
is greatest, so far as developed, in the West End, on the  
south edge of the developed area. The lode has been traced  
thru the Tonopah Extension, MacNamara and West End properties,  
and undoubtedly also passes into the California claim. Its  
strike is a curving one so that while in the MacNamara it  
strikes east-and-west and dips north, on the southern edge



and dips southerly. The legal apex of the lode is exposed both in the West End and the MacNamara claims, where the lode is covered by the dacite breccia.

In the Ohio Tenopah mine, all the workings have apparently misst the lode, some being too high, others too low; but it could probably be easily located. The vein in the California claim is probably restricted to the northeast portion.

The probable course of the apex across the California, MacNamara, and West End claims is described in the body of the report, and the legal aspects discussd.

The present West End policy of mining the best ore, sorting it up to shipping grade and neglecting development, is regarded as wrong; and a policy of developing the mine, blocking out and valuing the ore, and making preparations for systematic and extensive mining is recommended.

#### ROCK FORMATIONS

The following rock formations are exposed in the West End workings. They are all of volcanic origin, and Tertiary age. I begin with the uppermost.

1. Dacite breccia A soft rock composed of volcanic ash and angular fragments of lava, the detritus resulting from a volcanic eruption of explosive nature.

2. Later andesite An andesite of usually purple color. This is a volcanic flow.



PAGE 11

REPORT ON

WEST

END

MINE

TONOPAH, NEVADA

Source of Data

Developed Area of the Mine

Post-Mining Land

--00000--

The Ohio Federal Mine

Probable Source of the Area

Geological for Future

Policy of Development

Copy - J.S. Luermore 6-6-75 lh



3. Early andesite. A volcanic flow somewhat older than the later andesite, and distinguished from it by certain characteristics.

4. West End dacite. This formation in the West End mine I formerly called Tonopah rhyolite-dacite, but for sufficient reasons that I need not here detail, I have changed the name to the above. There are two main divisions of this rock: the upper division I have called the Ohio phase, and the lower the MacNamara phase. The former is more crystalline, and resembles the early andesite: the latter is a dense green rock, characteristically enclosing angular white fragments.

5. Lower andesite. Beneath the West End dacite, in the West End shaft, comes a fine-grained andesitic rock of a general green color. This is the lowest formation exposed in the mine.

#### THE WEST END VEIN

#### Conditions of Formation

At the contact of the West End dacite (which, as the maps and sections show, forms an undulating gently dipping sheet) with the overlying early andesite, a great deal of quartz has been deposited, over a considerable area. The exact contact has been the site of most intense silicification, and from the contact the quartz extends downward into the dacite, irregularly and in greatly differing amounts in different places. Where the amount of quartz thus deposited in



the dacite beneath the contact is great, the overlying andesite also becomes to some extent silicified and contains small veinlets; and this silicification increases with the increase of quartz in the dacite. Always, however, (so far as yet developed) the contact of dacite and andesite limits the main mass of quartz and constitutes the hanging wall of the main lode. This wall is usually clean, characteristic and regular, while the lower limit of quartz is usually irregular and ill-defined. It not infrequently happens that beneath the quartz may come dacite, and still lower another streak of quartz; but the generalization still holds good that the maximum deposition has been at the contact and that from there it extends irregularly downward.

This body of quartz, then, following the contact, forms a flat-dipping undulating lode, with frequent great changes of strike. It is probable that it was formed by ascending hot solutions which ascended along fissures in the brittle dacite, but were dammed back by the softer andesite, and so spread out under the andesite contact and deposited their burden of mineral matter. In some places the quartz at the contact is almost or quite absent, elsewhere (as in the Corkill shaft) it is at least 70 feet thick.

#### Extent of Lode

This lode extends from the West End thru the MacNamara into the Tonopah Extension. It also undoubtedly extends from the MacNamara into the California claim of the West End Consolidated, the not yet developed in this claim. Workings fol-



low the lode continuously from the Tenopah Extension thru the MacNamara into the West End.

#### Strength of Lode in West End

Passing thus southward along the lode, there is a remarkable increase in the amount of quartz, this condition being well shown in section 3 of sheet 3, accompanying. The greatest amount of quartz yet found in the lode is in the West End, along the southern edge of the developed portion of the lode; here the quartz is of extraordinary thickness (at least 70 feet in the Corkill shaft, as above stated) and in it, at several points that have been explored, large bodies of relatively low-grade ore have been encountered, with streaks of high-grade ore of less size. This showing, as exposed all along the southern edge of the developed area, in the West End mine, is by far the most favorable and promising portion of the lode yet developed.

#### Course of the Lode

The course of the lode in the MacNamara and West End, so far as opened up, is well shown by sheet No. 1, which shows the course of the hanging wall on different levels. As will be seen, there are many undulations, but the most striking thing is a great pitching roll, whose crest trends east and west (along section 2, sheet 3) and inclines to the east at an angle averaging about 17 degrees from the horizontal. Therefore in the lower MacNamara workings the strike is in



15 to 25 degrees; but further east it curves, and enters the West End side line with a general northwest strike and a northwest dip of 15 to 25 degrees. At the crest of the roll the strike curves suddenly and runs in a west-southwest direction, with a south dip, which seems to be steeper than the dip on other portions of the lode, and is about 35 degrees, so far as yet observed.

#### Developed Apex of the Lode

The lode does not outcrop. After the time of its formation, it was exposed to considerable erosion (wearing-down of the country) and was then covered up by later volcanic outbursts. The formations representing these later outbursts in the West End mine are the Later andesite and the Fraction dacite breccia; therefore these two rocks, of which the latter is uppermost, constitute the cap-rocks of the lode. Subsequent to the later andesite flow, there was a considerable erosion interval, and much of the andesite was stripped entirely off. Thus the later volcanic shower, which formed the Fraction dacite breccia, fell in some places upon the later andesite, in some places upon earlier formations. Either of the cap-rocks may directly overlie the vein at its ancient cropping; and this ancient cropping constitutes in the legal sense an apex to the vein.

The apex has so far been opened up in only two places, one in the MacNamara and one in the West End, and the two places are not far apart. The situation is shown in sheet 1.

So far as developed, this gives no extra-lateral rights



to anybody, except certainly for the MacNamara, in regard to a small strip running into the Tonopah Extension ground.

The probable course of the apex beyond the developed portion will be discussed in a subsequent paragraph.

#### Post-Mineral Rock-Movement

The lode and the associated rocks have been affected by intense strains, resulting in fissuring, slipping and faulting. This movement was subsequent to the deposition of all the rock formations, even the cap rocks. It has resulted in several small faults, such as the MacNamara fault and the MacNamara No. 2 fault (see sheet No. 1), which each have a vertical component of movement of some 40 feet or thereabout, and a horizontal component (in the case of the MacNamara fault at least) several times as great. It has also resulted in numerous fissures in brittle rocks, like the West End dacite, and in the quartz, and in many places of slipping in the softer rocks, like the early andesite. The undulating surface of the vein is probably partly due to this movement. Slipping was localized along any weak zone--for instance, at the contact of the quartz lode with the overlying andesite; therefore slips following the hanging wall are very common. Where, at the summit of the roll in the vein, in the West End, the dip flattens or even reverses, the slips keep on at a tangent, separating from the hanging wall, and passing upward into the soft early andesite, where they tend to fork and disappear. It was such slips as these that were followed under the impression that they represented technically the



hanging wall of the lode, and if followed up to the capping could be construed as proving a legal apex to the lode.

#### THE OHIO TONOPAH MINE

In 1904 I examined the shaft and the bottom level (770-foot level) which then constituted the entire workings of the Ohio Tonopah. Since then considerable work has been done on upper levels, without success. I have been unable to get into these workings, on account of bad air, but the material taken from them was pointed out on the dump to me by Mr. Corkill, superintendent of the West End mine. From this data I have constructed the accompanying geologic section thru the Ohio Tonopah and the MacNamara shafts (sheet 4). The first and second levels of the Ohio were entirely in the Fraction dacite breccia; while the third (called the 400-foot level) passed beneath the capping, and the entire level is in the West End dacite (Ohio phase), and beneath the MacNamara-West End lode. The 770-foot level is entirely in the lower portion of the West End dacite (MacNamara phase).

In the MacNamara workings the lode has been worked and ore stoped nearly to the Ohio line; and there is no doubt that the vein passes into the Ohio (California) ground, as shown on sheet 4, where the section is along the strike of the vein.

As will be seen on this section, the cap rocks pitch downward abruptly from the West End--MacNamara ground toward the west. This is shown not only in the Ohio Tonopah shaft,



but in the Red Rock and Pittsburg Tonopah shafts. In the Ohio Tonopah the capping is about 500 feet deep, while in the Red Rock which lies further west the later andesite probably goes down 700 feet (judged from dump: no accurate information).

This pitching down of the cap rocks causes them to cut off the West End--MacNamara lode obliquely. Therefore, so far as present developments go, the lode in the California claim is probably limited to the northeast corner, or about the portion shown to the northeast of the hypothetical apex line, in the appendix to sheet 1. Within this area, the evidence is in favor of finding ore.

#### PROBABLE COURSE OF THE APEX

I have reasoned out the probabilities as to the trend of the apex on either side of where it is developed, knowing that even an approximately correct view of the situation in advance may be of use. The probable situation is shown in the appendix to sheet 1. I have purposely left explanations off the map. The solid red line is the developed apex; the dotted red its probable extension. The parallel green lines give the approximate extralateral rights of the West End into the Jim Butler, provided the apex crosses the West End end-line at approximately the point conjectured. (Should the apex swerve so as to cross the south side line of the West End the extralateral rights would be along a strip running east into the Tonopah Mining Company's property, the sides of the strip being bounded by the extended side lines of the



West End). The strip between the orange lines represents the extralateral rights of the MacNamara, to enter Tonopah Extension ground. The strip between the blue lines represents the extralateral rights of the California claim to follow the lode into Tonopah Extension ground, if my assumptions are approximately correct. Concerning the MacNamara Extension fraction I am in some doubt, but think probable it has the right to follow the lode into Tonopah Extension ground, along the strip enclosed by the brown lines. The extralateral rights of the California are interrupted by those of the MacNamara, the latter being the older location, but continue on the other side of the interruption.

The West End and MacNamara claims have no extralateral rights which interfere with one another.

#### OUTLOOK FOR FUTURE

It appears probable that the lode extends thru the whole southwestern half of the West End claim, where it is entirely undeveloped. Moreover, the indications on the margin of this area are, as already indicated, unusually favorable. This area should be energetically and systematically developed. It will be noted that this portion of the lode will shortly pass into Jim Butler ground: it would therefore be good policy for the West End to avail itself of the diplomatic advantage gained by a knowledge of the situation, to make satisfactory arrangements with the Jim Butler, before beginning its policy of development.



The lode in the Ohio Tenopah is well worth going after. It is barely possible that the lode has been cut by one of the raises, especially raise No. 4, without being recognized. The lode could be opened up most conveniently thru the MacNamara 300-foot level, if that were possible. If not, it can be opened thru the Ohio 400-foot level. I should have to examine this level personally before I could give any more definite directions.

#### POLICY OF DEVELOPMENT

The present policy of mining in the West End appears to me utterly wrong. So far as I have been able to glean from the scanty data obtainable, we have in this mine at least a reasonable assurance of a large tonnage of ore of moderate and low grade, with streaks of relatively high-grade ore. The policy has been to burrow around and gopher out this high-grade ore, and sorting it up to the required grade for shipping. This method necessitates the handling and re-handling of a large quantity of ore in order to get a ton of shipping material. I gather from the last stockholders report that the proportion of ore stoped to ore shipped must be not far from 15 to 1. This brings up the cost enormously, eliminating the profits; and the time and labor wasted can never be regained. Moreover by this plan the mine is put into a bad shape for systematic profitable working.

In a mine, the natural advantage of a deposit that is so large as to permit the breaking down rapidly of large



quantities of ore is very great, and may easily more than compensate, in the matter of profits, for an average low grade, since it makes cheap mining possible. Added to this great advantage we have in the West End another equally as great, in that ore of this class has been proven susceptible of cheap and easy milling. Under these conditions the proper method of handling the situation is clear. I should recommend entirely discontinuing stoping, and inaugurating an energetic and systematic plan of development work, by which the ore in the mine could be blockt out and its tonnage and value estimated. When enough ore had been blockt out, in this way, so that the carefully calculated profits warranted it, I should recommend arranging for a mill. After that cheap mining on a large scale could be done; and if high-grade ore--(say \$60. ore) were encountered in this process, as it probably will be, it would go thru the mill with the rest, and the profits on it would be say \$45 a ton, instead of a little or nothing at present. No development work of importance is being done at present.

The best method of development will be to run drifts on different levels, following the hanging wall on its strike; to connect these levels by raises on the dip, also following the hanging wall; and from these levels and raises to test the thickness and values of the vein at frequent intervals, by winzes driven perpendicularly to the dip. For developing the lode on its south dip, in the West End, drifts should follow the hanging wall on the 400, 275, and say the 150-foot levels. From the 150-foot level raises should be put



up along the vein to the apex. At the 400-foot level Corkill shaft, a cross-cut should be driven somewhat east of south to the hanging wall, and then a drift run both ways on the lode. The Corkill shaft should be sunk, and development work along the lines indicated should be carried out on the 5th level.

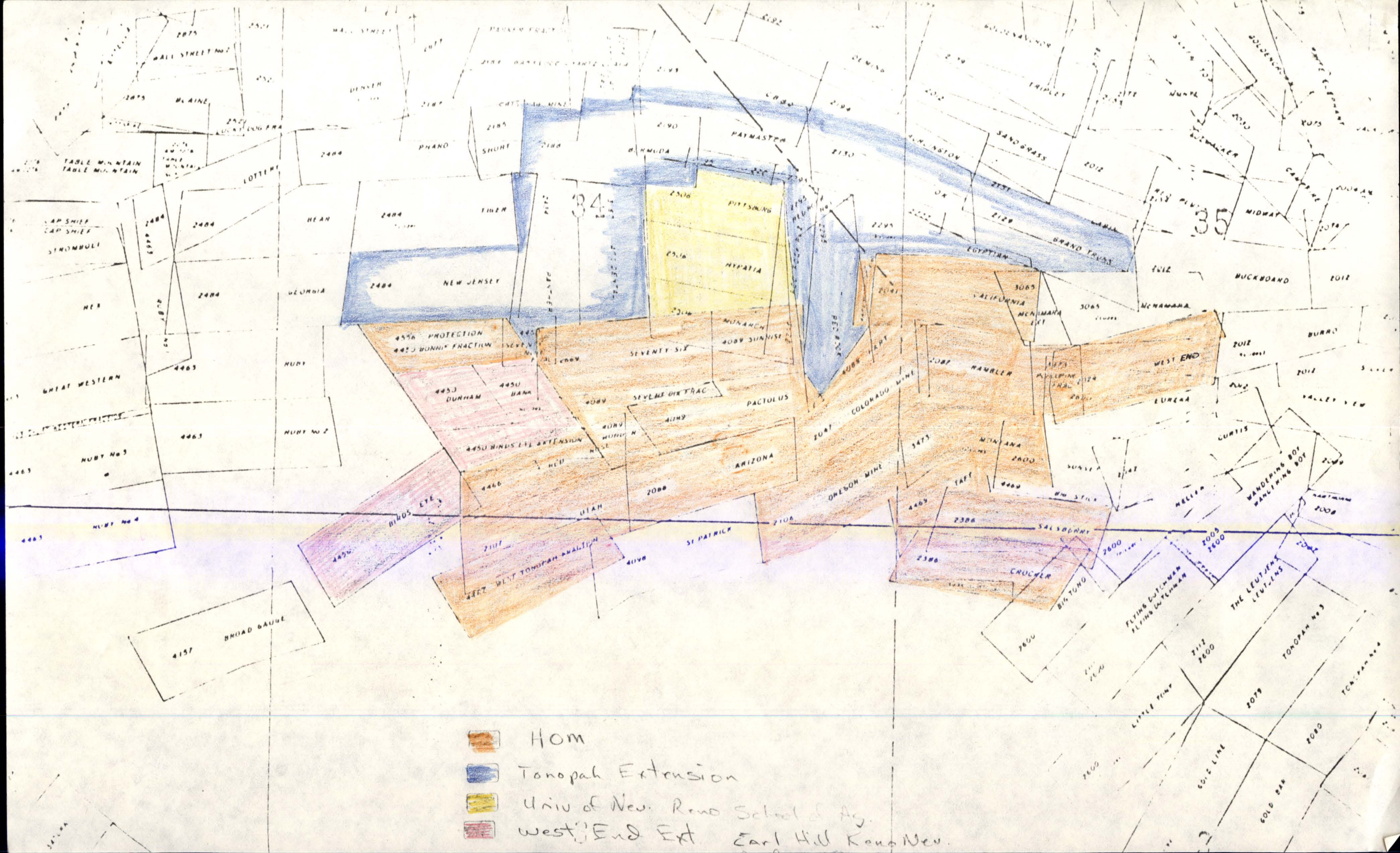
Respectfully submitted:

copy to

CBZ

*Spurr Hox Inc.,  
by J.E. Spurr*







6/6

1909. Ore Settlement  
Sheet

66 WEST END CONSOLIDATED MINING CO.  
ORE SETTLEMENT SHEET

1909

(254)

It-118

3 of 71

4840 0890

(Micro Filmed As  
4840 0118)



# ORE SETTLEMENTS

December, 1909.

	Tons	Aver Value	Gross Value	90%	Milling	Transportation	Net
Mohawk shaft	6,341.22	14.00	88,771.64	79,894.48	50,729.76	1,583.30	27,579.42
Combination shaft	4,884.24	23.45	114,556.87	103,101.18	43,958.16	1,221.06	57,921.96
Red Top       "	5,895.72	27.78	163,774.13	147,396.72	58,957.20	1,473.93	86,965.59
Jumbo         "	3,112.94	120.33	374,565.90	337,109.31	62,258.80	778.24	274,072.27
	<u>20,234.12</u>	<u>36.65</u>	<u>741,668.54</u>	<u>667,501.69</u>	<u>215,903.92</u>	<u>5,058.53</u>	<u>446,539.24</u>



67

1912

67 WEST END CONSOLIDATED MINING CO.  
ASSAYS REPORTS

1912

(257) Item 118 40671  
4840 0891

Micro FILMED AS  
(4840 0118)



TONOPAH, NEV., \_\_\_\_\_ 191 \_\_\_\_\_

SAMPLE NUMBER	WORKING PLACE	WIDTH	GOLD		SILVER		TOTAL VALUE		REMARKS
			OUNCES	VALUE	OUNCES	VALUE			
151			.03	.60	13.00	6.50	7.10	2.0	14.20
152			.01	.20	5.0	2.50	2.70	2.2	5.94
153 A			.02	.40	9.0	4.50	4.90	1.2	5.88
153 B.			Tr		1.5	.75	.75	1.3	.97
154			.03	.60	16.00	8.00	8.60	3.4	30.24
155			.04	.80	23.5	11.75	12.55	3.2	40.16
156			.02	.40	7.0	3.50	3.90	3.4	13.26
157			Tr		2.0	1.00	1.00	2.3	2.30
158			.06	1.20	30.0	15.00	16.20	3.8	61.56
159			.01	.20	3.5	1.75	1.95	2.3	4.48
160			.03	.60	11.00	5.50	6.10	3.8	23.18
161			.05	1.00	23.00	14.00	15.00	3.0	45.00
162			Tr		1.00	.50	.50	2.4	1.20
163			.06	1.20	29.5	14.75	15.95	1.5	23.92
164			.08	1.60	29.00	14.50	16.10	2.3	37.03
								547.4	4214.29



# WEST END CONSOLIDATED MINING CO.

## DAILY ASSAY REPORT

TONOPAH, NEV., Jan 27, 1912 191

SAMPLE NUMBER	WORKING PLACE	WIDTH	GOLD		SILVER		TOTAL VALUE	REMARKS
			OUNCES	VALUE	OUNCES	VALUE		
165A.	5.6Pb		.05	1.00	82.5	41.25	42.25	547.4 4214.29
165B.			.02	.40	15.0	7.50	7.90	110 42.25
166			.01	.20	2.0	1.00	1.20	2.9 59.25
167			.01	.20	1.5	.75	.95	2.8 3.36
168			Tr		.5	.25	.25	554.1 4319.15
169			"		.5	.25	.25	
170			"		.5	.25	.25	3.2 7.29
171			"		.5	.25	.25	and note Ann Value
172			"		.5	.25	.25	
173			.01	.20	1.5	.75	.95	u
174			.01	.20	1.0	.50	.70	
175			.02	.40	3.5	1.75	2.15	
176			Tr		1.0	.50	.50	
177			Tr		.5	.25	.25	
178			Tr		.5	.25	.25	
179			Tr		.5	.25	.25	
180			Tr		.5	.25	.25	



# WEST END CONSOLIDATED MINING CO.

## DAILY ASSAY REPORT

TONOPAH, NEV.,

Jan 23 1912

90.1  
394.87  
ntth H.D. Jones

SAMPLE NUMBER	WORKING PLACE	WIDTH	GOLD		SILVER		TOTAL VALUE	REMARKS
			OUNCES	VALUE	OUNCES	VALUE		
1			.015	30	3.00	1.65	1.95 4.0	7.80
2			.015	30	2.5	1.38	1.68 6.0	10.08
3			.03	40	2.8	1.30	1.70 6.3	10.71
4			Tr	—	1.0	.55	.55 8.0	4.40
5			.03	60	3.0	4.40	5.40 6.3	31.50
6			.04	80	11.0	6.05	6.85 5.0	34.25
7			.03	60	3.5	4.67	5.27 4.5	23.71
8			.02	40	3.5	1.92	2.32 4.8	11.13
9			.07	140	24.5	13.48	14.88 4.9	72.91
10			Tr	—	1.0	.55	.55 4.8	2.64
11			.04	80	32.0	17.60	18.40 4.4	80.96
12			.01	20	6.0	3.30	3.80 4.0	14.00
13			.01	20	5.0	2.75	2.95 2.6	7.67
14			.01	20	5.0	2.75	2.95 3.0	8.85
15			Tr	—	2.5	1.38	1.38 4.3	5.93
16			Tr	—	1.5	.93	.93 5.0	4.65
17A			Tr	—	2.0	1.10	1.10 2.9	3.14
17B			.01	20	5.0	2.75	2.95 4.5	4.44
18			Tr	—	1.5	.93	.93 2.0	1.86
19			.52	1040	16.0	8.80	19.20 2.6	44.92
20			.01	20	1.5	.93	1.13 5.8	4.29



## 2

191

140.1

191  
980.97

[illegible]



# WEST END CONSOLIDATED MINING CO.

## DAILY ASSAY REPORT

TONOPAH, NEV., JAN 23 1912

191

SAMPLE NUMBER	WORKING PLACE	WIDTH	GOLD		SILVER		TOTAL VALUE	REMARKS
			OUNCES	VALUE	OUNCES	VALUE		
62			Tr	—	1.1	60	60	212.7
63			Tr	—	1.0	55	55	1499.38
64			.54	10 80	28.0	15 40	26 20	4.8
65			.28	5 60	10.5	5 38	11 38	2.3
66			.02	40	4.5	2 48	2 88	1.5
67			.24	4 80	12.0	6 60	11 40	1.5
68			.02	40	5.0	2 75	3 15	2.6
69			.08	1 60	14.5	7 97	9 57	2.6
70			.14	2 80	7.5	4 12	6 92	4.9
71			.03	60	5.0	2 75	3 35	2.1
72			.04	80	6.0	3 30	4 10	2.1
73			.04	80	6.5	3 57	4 37	5.0
74			.08	1 60	25.0	13 35	15 35	3.6
								3.9

249.2 1740.93



3

JAN 23 1912

191

[illegible]



# WEST END CONSOLIDATED MINING CO.

## DAILY ASSAY REPORT

TONOPAH, NEV.,

*326.1* *2191* *170.75*

SAMPLE NUMBER	WORKING PLACE	WIDTH	GOLD		SILVER		TOTAL VALUE	REMARKS
			OUNCES	VALUE	OUNCES	VALUE		
							<i>249.2</i>	<i>1740.93</i>
75			.26	5.20	22.0	11.0	16.20	<i>1.8</i> <i>24.16</i>
76			.08	1.60	25.0	12.50	14.10	<i>1.6</i> <i>22.56</i>
77			.06	1.20	16.0	8.00	9.20	<i>2.6</i> <i>23.92</i>
78			.03	.60	2.5	1.25	1.85	<i>3.0</i> <i>5.55</i>
79			.02	.40	3.0	1.50	1.90	<i>2.4</i> <i>4.56</i>
80			Tr		.5	.25	.25	<i>2.0</i> <i>.50</i>
81			.1	2.00	19.5	9.75	11.75	<i>3.0</i> <i>35.25</i>
82			.02	.40	2.5	1.25	1.65	<i>4.0</i> <i>5.60</i>
83			.02	.40	4.5	2.25	2.65	<i>4.5</i> <i>11.92</i>
84			.04	.80	6.5	3.25	4.10	<i>4.0</i> <i>16.40</i>
85			.02	.40	4.5	2.25	2.65	<i>5.1</i> <i>13.51</i>
86			.02	.40	3.0	1.50	1.90	<i>3.2</i> <i>6.08</i>
87			.01	.20	3.0	1.50	1.70	<i>4.6</i> <i>7.82</i>
88			.01	.20	2.5	1.25	1.45	<i>3.8</i> <i>5.51</i>
89			.08	1.60	5.5	2.75	4.35	<i>4.0</i> <i>17.40</i>
90			.03	.60	13.0	6.50	7.10	<i>3.3</i> <i>23.43</i>
91			.04	.80	49.0	24.50	25.30	<i>4.0</i> <i>101.20</i>
92			.03	.60	29.0	14.50	15.10	<i>5.4</i> <i>81.54</i>
93			Tr		2.0	1.00	1.00	<i>5.3</i> <i>5.30</i>
94			.01	.20	5.0	2.50	2.70	<i>4.2</i> <i>11.34</i>
95			Tr		.5	.25	.25	<i>5.1</i> <i>1.27</i>



## DAILY ASSAY REPORT

TONOPAH, NEV.,

191

[illegible]



TONOPAH, NEV., Jan 27, 1912 191

SAMPLE NUMBER	WORKING PLACE	WIDTH	GOLD		SILVER		TOTAL VALUE	REMARKS	
			OUNCES	VALUE	OUNCES	VALUE			
							375.3	2776.89	
110			.01	.20	5.0	2.50	2.70	3.0	8.10
111			Tr		.5	.25	.25	4.0	1.00
112			Tr		.5	.25	.25	5.0	1.25
113			.01	.20	1.00	.50	.70	5.3	3.71
114			.03	.60	41.0	20.50	21.10	42.8	59.08
115			.01	.20	7.5	3.75	3.95	3.1	12.24
116			.01	.20	3.5	1.75	1.95	3.9	7.60
117			.02	.40	5.5	2.75	3.15	4.0	12.60
118			.02	.40	8.5	4.25	4.65	5.0	23.25
119			.01	.20	8.5	4.25	4.45	5.5	24.47
120			.01	.20	1.5	.75	.95	3.6	3.42
121			.03	.60	74.0	37.00	37.60	3.2	120.32
122			.04	.80	40.00	20.00	20.80	5.6	116.48
123			.04	.80	54.5	27.25	28.05	4.3	120.61
124			.02	.40	17.0	8.50	8.90	4.5	40.05
125			.01	.20	1.5	.75	.95	4.4	4.18
126			Tr		.5	.25	.25	3.3	0.82
127			.02	.40	3.0	1.50	1.90	4.1	7.79
128			.03	.60	22.0	11.00	11.60	2.0	22.20
129			.01	.20	2.5	1.25	1.45	2.8	4.06
130			.1	2.00	65.0	32.50	34.50	2.3	79.35







WECM Co 1917<sup>9</sup>  
production, leases

69 WEST END CONSOLIDATED MINING CO.  
REPORTS: PRODUCTION, LEASES, & MILL  
COMMODITIES 1915 - 77

(254) Item 118

5 of 71

4840 0890

(Micro FILMED AS  
4840 0118)



5293 dry tons  
Commodity Consumption - April - 1915

		PER Dry Ton	PER Ounce Bullion
Acetate, Lead	2970	.56	034
Cyanide	10200	1.93	117
Lime	20840	3.94	239
Oil, Fuel	15315	2.9	175
Pebbles	36470	6.9	418
Water	1,195,275	225.8	13728
Zinc	6000	113	068

Segregation of direct costs

Labor	325975	616	037
Power	275100	520	032
Supplies	673264	1272	077
	<u>1274237</u>	<u>2408</u>	<u>146</u>



Commodities -

March - 1915

	USED	PER DRY TON	PER OUNCE DULLION
Acetate, Lead	1670	.33	020
Cyanide	11200	2.25	138
Lime	16620	334	205
Oil Fuel	15385	309	190
Pebbles	32841	66	406
Water	1042125	2094	129
Zinc	2220	145	089

Labor	334428	672.	041
Power	163550	529	032
Supplies	665628	1338.	083
Total Direct	<u>1263616</u>	<u>2599</u>	<u>156</u>



## Commodities - February

1915

	USED	PER DRY TON	PER Ounce Bullion
Cyanide	10800 #②	2.51	147
Lead Acetate	1345 #	.31	011
Lime	15060 #	349	206
Oil, Fuel	18544 Gal	431	253
Pebbles	33830 #	786	46✓
Water	868575 Gal	201.9	11.9
Zinc	6866 #	1.59	094

Labor	315725	734	043
Power	\$231600	538	032
Supplies	580875	1350	079
Total Direct	1148200	2622	154



# Mill Sheet 7

Commodities - January

1915

	LOS	QPL	PER DRY TON	LOS PER ONE BILLION
1 Cyanide	13400	✓	289	.136
7 Zinc	8083	✓	172	.08 ✓
3 Lime	15000	✓	323	.153
5 Pebbles ✓	29800	✓	642	.303 ✓
4 Fuel Oil	16740	✓	36 (Per Gal)	.170 ✓
6 Water	939795	✓	203	9.6 ✓
2 Soda Antate	1760	✓	38	.018 ✓

Direct Costs

## Mill Operating Sheet - January 1915

Power	257100	✓	554	026
Supplies	721156	✓	1554	074
Labor	361598	✓	780	036
Total Direct	1339854	✓	1888	136



# COMMODITIES - AUGUST 1915.

	USED	POUNDS PER DRY TON	POUNDS PER OUNCE BULLION	
ACETATE, LEAD	4000 <sup>LBS</sup>	87	037	✓
CYANIDE	1431 ✓	794	116	✓
LIME	20000 "	411	16	✓
OIL-FUEL	13160 <sup>Gal</sup>	770	106	✓
PEBBLES	40900 <sup>LBS.</sup>	841	331	✓
WATER	1161600 <sup>gals.</sup>	73877	939	✓
ZINC	5415 <sup>LBS.</sup>	111	044	✓

## - SEGREGATION OF DIRECT COSTS -

LABOR	357378	735	079
POWER	757850	530	071
SUPPLIES	800380	1645	065
TOTAL-	1415608	7910	115



# COMMODITIES - JULY 1915

1957  
dry tons

		POUNDS PER dry TON	POUNDS PER ounce Billion.
ACETATE, LEAD	3600 LBS.	.73	031
CYANIDE	15780 "	318	137
LIME	22000 "	444	191
OIL, FUEL	10570 GAL	213	09✓
PEBBLES	39416 LBS	795	34✓
WATER	1148675 GAL.	✓317✓	9966
ZINC	5239 LBS	106	045

## - SEGREGATION OF DIRECT COSTS. -

LABOR	326549	659	028
POWER	4538 00	51✓	02✓
SUPPLIES	<u>7928 83</u>	<u>1599</u>	<u>069</u>
TOTAL	137323✓	2770	119



.00019

## COMMODITY CONSUMPTION - June 1915

		POUNDS PER DRY TON	POUNDS PER OUNCE BULLION
ACETATE, LEAD	4050.	.78	041
CYANIDE	126481	2.47	179
LIME	21760.	4.24	221
OIL, FUEL	15100.	294	154
PEBBLES	35150.	685	358
WATER	1097925	21409	11198
ZINC	4977.	97	050

## SEGREGATION OF DIRECT COSTS

		PER DRY TON	PER OZ. BULLION
LABOR	329633	643	033
POWER	259950	507	026
SUPPLIES	714817	1394	073
TOTAL	1304400	2544	132



# Commodity Consumption - May 1915

		POUNDS PER DRY TON	POUNDS PER DUNCE BULLION
Acetate, Lead	3700	.68	040
Cyanide	11000	202	121
Lime	19945	368	220
Oil, Fuel	16400	302	181
Pebbles	39700	731	438
Water	1022850	1885	11295
Zinc	4016	.74	044

## Segregation of Direct Costs

		PER DRY TON	PER OZ BULLION
Labor	\$ 33,170.9	612	036
Power	\$ 27,510.0	507	031
Supplies	66,269.6	1221	073
	126,950.5	2,340	140



# COMMODITIES - DECEMBER 1915

USED

POUNDS PER  
DRY TON

POUNDS PER  
FINE OZ BULL.

ACETATE LEAD	5000	114	037
CYANIDE	14400	278	183 <sup>106</sup>
LIME	10000	227	115 <sup>090</sup> +
OIL FUEL	17740	404	183 <sup>154</sup>
PEBBLES	35150	801	304
WATER	1180325	25759	9094
ZINC	6155	140	053

## - SEGREGATION OF DIRECT COSTS. -

LABOR	356177	81✓	031
POWER	228139	520	020
SUPPLIES	780197	1778	067
TOTAL:	1364513	3116	118



# COMMODITIES - NOVEMBER 1915

	USED	POUNDS PER DRY TON	POUNDS PER FINE OZ. BULLION
ACETATE, LEAD	3900	89	033
CYANIDE	11600	765	097
LIME	22000	503	185
OIL FUEL	17147	392	144
PEBBLES	31000	709	260
WATER	1150050	76311	9663
ZINC	5100	117	043

## SEGREGATION OF DIRECT COSTS

LABOR -	334908	766	028
POWER -	219068	501	018
SUPPLIES -	762925	1746	065
TOTAL	1316901	3013	111



# COMMODITIES - OCTOBER - 1915

	USED	POUNDS PER DRY TON	POUNDS PER FINE OZ. BULLION
ACETATE, LEAD	3000	67	025
CYANIDE	14400	273	103
LIME	21000	47	178
DIE-FUEL	12275	275	104
PEBBLES	35500	75	300
WATER	1104075	24710	9353
ZINC	5000	112	042

## SEPARATION OF DIRECT COSTS

LABOR	320025	716	027
POWER	241800	541	021
SUPPLIES	725432	1624	061
TOTAL	1287257	2881	109



# COMMODITIES - SEPTEMBER 1915

	USED	POUNDS PER DRY TON	POUNDS PER ONE CUBIC YARD
ACETATE, LEAD.	3000	72	.079
CYANIDE	13000	312	.126
LIME	17000	408	.165
OIL-FUEL	13000	319	.129
PEBBLES	31750	762	.308
WATER	1048850	247.15	9.98
ZINC	4600	1.11	.044

## - SEGREGATION OF DIRECT COSTS -

LABOR	319615	767	031
POWER	231000	555	022
SUPPLIES	728704	1751	071
TOTAL	1279319	3073	124



# Commodities - April-1916.

Acetate, Lead	3600	80	030
Cyanide	14000	268	100
Lime	16650	372	137
Oil, Fuel	15400	344	127
Pebbles	40100	896	330
Water	1010025	2565	8310
Zinc	6915	154	057

## Segregation of Direct Costs.

Labor	312050	697
Power	237786	531
Supplies	765567	1711
TOTAL-	1315403	2939



# Commodities - MARCH 1916

Acetate, Lead	3770	83	035
Cyanide	12000	265	110
Lime	28000	618	255
Oil - Fuel	18795	415	172
Pebbles	46644	1029	426
Water	1092150	24098	9971
Zinc	8500	187	078

## - SEGREGATION OF DIRECT COSTS -

Labor	331694	732	030
Power	237881	524	022
Supplies	867253	1914	079
Total	1436828	3170	131



# Commodities

4116 dry tons <sup>cells</sup>  
 February 1916  
 Pounds Per  
 Dry Ton Pounds Per  
 Fine Oz Dwt.

Used		Pounds Per Dry Ton	Pounds Per Fine Oz Dwt.
Acetate, Lead ✓	3410	.83	036
Cyanide ✓	10400	7.53	110
Lime ✓	16000	3.89	170
Oil, Fuel ✓	15879	3.86	168
Pebbles ✓	23200	5.64	746
Water	1007100	744.67	10685
Zinc ✓	3000	.73	032 ✓

## SEGRIGATION OF DIRECT COSTS

LABOR	321472 ✓	781	034
POWER	224212 ✓	545	024
SUPPLIES	617230	1499	065
TOTAL	1162914	2825	173



# Commodities - JANUARY - 1916

	Used	Pounds Per Dry Ton	Pounds Per Fine Oz Bar
Acetate, Lead	4730	1.00	045
Cyanide	11400	268	122
Lime	18000	474	192
Oil, Fuel	17105	403	182
Pebbles	35080	826	375
Water	1033050	243.24	11046
Zinc	4800	113	051

X

## SEGREGATION OF DIRECT COSTS.

LABOR	351837	828	038.
Power	229688	541	024.
SUPPLIES	727182	1712	078.
TOTAL.	1308707	3081	140



Commodities-		August	1916
Used	(5100)	Per Dry Ton	Per Fine Oz. Bull.
Acetate-Lead	3695	.65	028
Cyanide	14000	2.46	107
Lime	22000	386	168
Oil-Fuel	14635	457	112
Pebbles	36000	631	274
Water	1224800	41663	9410
Zinc	6213	109	047

### SEGREGATION-OF Direct Costs

Labor	372704	654	028
Power	275090	483	021
Supplies	872814	1531	067
Total Direct	1520606	2668	116



- Commodities -  
Used

July - 1916 -

Per Dry  
TON

Per Fine  
Gr Bull.

Agregate, Lead	3270	60	027
Cyanide	14000	258	116
Lime	22000	405	182
Oil - Fuel	14776	272	122
Pebbles	31200	575	258
Water	1317300	24260	10882
Zinc	6572	121	094

Segregation of Direct Costs

Labor	393944	726	033.
Power	259159	477	021
Supplies	871661	1605	072
	1524764	2808	126



- 5382 dytons - (000187805-)

Commodities -		June	1916
	Used	Per dyton	Per Fine of Bull.
Acetate, Lead	3000	.56	026
Cyanide	13200	2.45	114
Lime	24500	455	211
Oil, Fuel	15785	293	136
Pebbles	33200	617	287
Water	1249920	232.24	10791
Zinc	5300	99	046

- Segregation of Direct Costs -

Labor	366468	681	032
Power	249592	464.	021
Supplies	815925	1516	071
Total	1431985	2661	124



# Commodities - May 1916

	Used	Per Dry Ton	Per Fine or Bulk
Acetate, Lead	3660	80	032
Cyanide	12600	275	111
Lime	26000	568	130
Oil, Fuel	14575	319	128
Pebbles	33400	730	295
Water	1157400	15315	10242
Zinc	5085	111	045

## Segregation of Direct Costs:

Labor	355826	778	031
Power	241593	528	021
Supplies	768503	1682	068
Total	1365922	2988	120



# COMMODITIES - DECEMBER - 1916

	Used	PER DRY TON	PER FINE OR BULL
ACETATE, LEAD	2500	.54	028
CYANIDE	<del>19500</del> <del>17400</del>	<del>311</del>	<del>159</del>
LIME	26000	562	288
OIL - FUEL	24920	538	275
PEBBLES	38900	841	430
ZINC	6069	131	067

X

LABOR	385425	833	042
POWER	215062	464	024
SUPPLIES	864665	1869	096
TOTAL DIRECT	1465152	3166	162



Commodities - November 1916

	Used	Per Dry Ton	Per Fine oz
Acetate, lead	3100	56	023
Cyanide	14400	259	110
Lime	26000	469	199
Oil - Fuel	20330	366	156
Pebbles	54000	973	413
Zinc	6900	124	053

Labor	358435	646	017
Power	264251	476	020
Supplies	1019019	1837	078
TOTAL DIRECT	1641705	2959	125



# Commodities - October - 1916\*

Used

Per Dry  
Ton

Per Fine  
Oz. Bull.

Acetate, Lead	3600	62	031
Cyanide	14600	254	126
Lime	28226	492	243
Oil - Fuel	17650	307	152
* Pebbles	58000	1011	499
<del>Water</del>			
Zinc	6300	110	054

Labor	384488	670	033
Power	280480	489	024
Supplies	1045781	1822	090
Total Direct	1710749	2981	147

10749  
1764968  
1045781



# Commodities - September 1916.

	Used	Per Dry Ton	Per Fine oz Bull.
Acerate, Lead	3000	55	0v3
Cyanide	13000	2.40	101
Lime	28010	516	217
Oil-Fuel	17148	313	132
Pebbles	59345	1087	459
Water	1160730	21384	8984
Zinc	6350	117	049

## SEGREGATION OF DIRECT COSTS

LaBOR	347145	640	027
Power	265086	488	021
Supplies	993859	1831	076
Total Direct	1606090	2959	124



# COMMODITIES - APRIL - 1917

	USED	PER DAY	PER FINE OR BURN
ACETATE, LEAD	2470	44	023
CYANIDE	13800	247	128
LIME	23330	417	217
OIL-FUEL	20500	367	191
PEBBLES	42000	752	391
ZINC	7000	125	065

LABOR	360884	646	034
POWER	243995	437	023
SUPPLIES	1014887	1816	094
TOTAL DIRECT	1619766	2899	151



# Commodities - March - 1917.

PER TON  
02. DOLL.

Used

Per Dry Ton

Acetate, Lead	2760	50	023
Cyanide	14396	260	121
Lime	28050	506	236
Oil-Fuel	1979✓	357	167
Pebbles	57000	1027	480
Zinc	6500	117	055

Labor	395357	713	033
Power	253100	457	021
Supplies	983093	1772	083
Total Direct	1631550	2942	137



## Commodities -

Feb - 1917

Used

Per  
Dry TonPer Fine  
2.5 Bulk

Acetate, Lead	2215	44	024
Cyanide	12400	244	133
Lime	17920	353	193
Oil - Fuel	15273	301	165
Pegs & Pins	41300	813	445
Zinc	6000	118	065

Labor	365425	720	039
Power	233818	460	025
Supplies	824867	1623	089
Total Direct.	1424110	2803	153



# COMMODITIES - JANUARY - 1917

	USED	PER Dry Ton	PER FINE OZ. Bullion
Acetate-Lead	3700	66	033
Cyanide	13800	246	123
Lime	21700	378	188
Oil-Fuel	20506	366	182
Pebbles	49000	874	436
Zinc	6700	129	060

Labor	366191	653	033
Power	251127	448	022
Supplies	891490	1589	079
Total Direct	1508808	2690	134



# COMMODITIES - AUGUST 1917

95486<sup>27</sup> Fine Oz

PDS PER  
Dry Ton

PER FINE  
OZ Bulkship

Acetate, Lead	1550	.27	016
Cyanide	14600	2.60	153
Lime	24000	4.27	251
Oil - Fuel	15416	2.88	159
Pebbles	41000	7.30	430
Zinc	4500	.80	047

Labor	380557	677	040
Power	262909	468	027
Supplies	950817	1692	100
Total	1594283	2837	167



# Commodities - July 1917

Pounds  
Per Dry Ton

PER FINE  
OZ. BULLION

Acerate	1480	27	016
Cyanide	11800	214	145
Lime	14640	265	155
Oil-Fuel	13487	245	143
Pebbles	44700	774	452
Zinc	5322	97	056

Labor	350158	635	037
Power	257981	467	027
Supplies	816275	1479	087
Total Direct	1424414	2581	151



## Commodities

June - 1917

Used

PER  
CrytonPER FINE  
OF BILL

ACETATE, LEAD	1612	30	017
CYANIDE	12800	235	131
LIME	18000	330	184
OIL - FUEL	15416	283	157
PEBBLES	49200	903	502
ZINC	5500	101	056

LABOR	394435	724	040
POWER	262951	483	027
Supplies	912106	1673	093
TOTAL DIRECT	1569492	2880	160



# Commodities - MAY - 1917

Used

PER  
Dry Ton

Per Fine  
Or Bill

Acetate-Lead	2400	41	013
Cyanide	13600	234	130
Lime	25090	431	240
Oil-Fuel	21125	363	203
Pebbles	57700	991	554
Zinc	7056	121	068

Labor	364476	626	035
Power	269410	463	026.
Supplies	972630	1671	093
Total Direct	1606516	2760	154



## COMMODITIES

Dec. - 1917

	<u>AMT. USED</u>	<u>PER DRY TON</u>	<u>PER FINE OZ. BULLION</u>
Acetate, Lead	1550 Lbs.	27	.013
Cyanide	13225 ✓	230	108
Lime	16400 ✓	286	134
Oil-Fuel	18522 gals.	322	152
Pebbles	23685 lbs.	412	194
Zinc	5625 ✓	98	046

LABOR	\$ 405635	706	033
POWER	265340	462	022
SUPPLIES	916330	1595	075
TOTAL DIRECT	\$1587305	\$2,763	\$.130

DRY TONS ORE MILLED  
FINE OZS. BULLION

5744.  
12222007



# Commodities - Nov. 1917

		Per Dry Ton	Per fine oz. Bullion
Acetate Lead	1500 lbs.	27	.016
Cyanide	12075 "	220	.130
Lime	32280 "	588	.347
Oil-Fuel	18114 gals.	330	.194
Pebbles	35400 lbs.	645	.380
Zinc	5575 "	101	.060

Labor	475081	.775	.045
Power	257723	.469	.077
Supplies	880079	1604	.095

TOTAL DIRECT \$1562833 \$2.848 \$ .167

Fine ozs. Bullion  
Dry Tons Milled

9311859  
5488



Fine Oz 102131.18  
Dry Tons 517

Commodities - Oct 1917

		Per <u>Dry Ton</u>	Per Fine Oz <u>Bullion</u>
Acetate, Lead	1550	27	015
Cyanide	13400	227	119
Lime	14400	384	219
Oil - Fuel	15975	274	156
Pebbles	35900	616	351
Zinc	4960	85	049
Labor	416450	715	041
Power	263300	452	026
Supplies	923117	1584	090
Total Direct	1602867	2751	157



FINE S.  
92035.58

COMMODITIES - SEPT. 19 17.

PER PER FINE OZ.  
DRY TON BULLION

Acetate, Lead	1510 #	.27	.016
Cyanide	13400 #	242	.146
Lime	28000 #	506	304
Oil - Fuel	14356 gals.	2.59	156
Pebbles	28950 #	523	314
Zinc	4770 #	86	049

Labor	380333	.687	041
Power	256479	463	028
Supplies	889725	1608	097
TOTAL DIRECT	\$1526537	\$2,758	166



LEASES

MINE FROM Nov. 1st TO Nov. 30th. 1915

DATE	PLACE	TONS	ASSAY			TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
			AU.	AG.	CU.			
Comb. FR.	G. Con. M. Co.	388	38			149.76		
Jumbo 2	Hodge - Hardwick	52	223			116.08		
		440	42			265.84		

TOTAL

TO SMELTER

TO MILL

TO SUSPENSE DUMP















MINE FROM *Aug. 1915* TO

Aug. 1915

SWTC

DATE	PLACE	TONS	ASSAY			TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
			AU.	AG.	CU.			
<i>Red Top:-</i>								
	Kendall	834	114			946 50		
<i>Jumbo No 2:-</i>								
	Jumbo L.G	79	72			3523		
	Many house	109	124			135 12		
TOTAL		992	113			1116 85		
TO SMELTER								
TO MILL								
TO SUSPENSE DUMP								



LEASES

MINE FROM

JULY 1915 TO

DATE	PLACE	TONS	ASSAY			TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
			AU.	AG.	CU.			
Red Top	Kendall	705	156			110321		
Jumbo #2	Manyhouse	163	164			26696		
	McGuigan	179	95			15991		
TOTAL		1047				153008		
TO SMELTER								
TO MILL								
TO SUSPENSE DUMP								



LEASES

MINE FROM

June 1915 TO

DATE	PLACE	TONS	ASSAY			TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
			AU.	AG.	CU.			
Kendall	Red Top	614	132			85637		
Mayhouse	Jumbo 2	315	99			31145		
Giles	"	42	65			2736		
McGuigan	"	50	114			5685		
Houlihan	Clermont	36	112			4030		

TOTAL

1057

124342

TO SMELTER

TO MILL

TO SUSPENSE DUMP



LEASES

MINE FROM

MAY -1st

TO

MAY 31st 1915

DATE	PLACE	TONS	ASSAY			TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
			AU.	AG.	CU.			
Kendall	Red Top	821	742			6094.79		
Mayhouse	Jumbo 2	244	92			22423		
M <sup>c</sup> Guigan	" "	42	53			2233		
Houlihan-	Clermont	41	144			5896		
TOTAL								
TO SMELTER								
TO MILL								







Leases

MINE FROM March, 1915 TO

DATE	PLACE	TONS	ASSAY			TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
			AU.	AG.	CU.			
RED TOP								
	McCoy + D	888 ✓	0985 ✓			875 43 ✓		
	Kendall	244	383			934 44		
JUMBO N°2								
	McGuigan	83 ✓	191 ✓			158 13 ✓		
TOTAL								
TO SMELTER								
TO MILL								
TO SUSPENSE DUMP								
		1215	1.62 ✓			1968.00 ✓		



Leases

MINE FROM

Feb. 1915

TO

DATE	PLACE	TONS	ASSAY			TOTAL Ozs. Gold	TOTAL Ozs. Silver	TOTAL Lbs. Copper
			AU.	AG.	CU.			
RED TOP								
	McCoy	825		.763		628.99		
	Kendall	392		1.783		697.49		
JUMBO No 2								
	Dodge et al	17		1.76		30.00		
	Manyhouse	37		.53		19.52		
TOTAL								
TO SMELTER								
TO MILL								
TO SUSPENSE DUMP								
		1271		1.083		1376.00		



# Leases

MINE FROM January, 1915 TO

DATE	PLACE	TONS	ASSAY			TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
			AU.	AG.	CU.			
RED TOP								
	McCoy et al.	913	.953			870 87		
	Kendall	181	1.235			223 82		
JUMBO N°2								
	KNOTT et al	129	.454			58 51		
	DODGE " "	235	.467			109 51		
TOTAL								
TO SMELTER								
TO MILL								
TO SUSPENSE DUMP								

1458

.866

1262 71



# TOTAL PRODUCTION FROM ALL MINES FOR QUARTER

MINE FROM TO  
January 1st, 1915 to March 31st, 1915

STOPS	DATE	PLACE	TONS	ASSAY		TOTAL OZS. GOLD	TOTAL OZS. SILVER	TOTAL LBS. COPPER
				AU.	CU.			
Combination			68.96			7,284.54		
Mohawk			435.37			38,841.90		
Red Top			48.82			4,848.39		
Laguna			45.45			3,243.15		
Clermont			164.20			16,957.89		
TOTAL			762.80*			71,175.87*		

## DEVELOPMENT

Combination	5.68	409.27
Mohawk	29.97	2,462.49
Red Top	2.03	156.34
Laguna	3.06	161.44
Clermont	18.44	787.77
TOTAL	59.18*	3,977.31*

762.80	71,175.87
59.18	3,977.31

MINE	821.98 S	75,155.18 S
DUMPS	108.25	4,872.04
LEASES	39.44	4,606.71

GRAND TOTAL. . . 969.67\* 0.873 84,631.93\*

TOTAL

TO SMELTER

TO MILL

TO SUSPENSE DUMP



70 WEST END CONSOLIDATED MINING CO.  
AGREEMENTS, BY-LAWS, W. E. AND LEASES,  
DRAFTS 1919 - 26

~~69~~ 70 Agreements, by laws,  
leases; drafts  
1919-26

(254) Item 118 6 of 71

4840 0890

(Microfilmed As  
4840 0118)



①

W.E.By Laws.

7/1/27.

A - I

Bo. of Dir. 5, 3 quorum. Dir. must become stockholders within 60 days after election, and after 1st stockholders meeting must be stockholders.

A - II

Dir. elected at Ann. meet. for 1 year or until successors elected.

A III

Vacancies:-

Director must accept within 10 days after election. Stockholders may remove any director & fill vacancy. Directors, even less than maj., may fill vacancies.

A IV

Powers of Director:-

- ① - To conduct business etc.
- ② - Appoint agents & employees, fix compensation etc.
- ③ - To make contracts etc.
- ④ - To incur indebtedness, take security etc.
- ⑤ - To lease, purchase, acquire
- ⑥ - To sell, lease, mortgage etc. subject to A - XVIII.
- ⑦ - To make such orders & give such directions as deem proper with regard to disposal of capital stock held by it.
- ⑧ - Call special meetings of stockholders.



(2).

WE

④. - To prescribe form & manner of meetings.

A - V

Duties of Directors:-

- ① - Keep record of proceedings, report to stockholders at annual meeting, end of business of corp.
- ② - Declare Div. Debt of stockholder may be applied against div., if due & payable.
- ③ - Issue stock certificates.

- Amended { #6-5/6/25
- ④. - Call special sth. meeting when requested in writing by 1/10 of stock.
  - ⑤. - Protect interest of this corp. in any other in which hold stock, and to delegate director, officers, or others, to represent this corp. & vote its stock at meetings of companies in which the Co. is interested.
  - ⑥. - To do as others may direct, in meeting.

A - VI

Officers:-

Pres., V.P., Sec., Treas. Officers elected by & hold office at pleasure of B. of Dir. Office Sec. Treas. may be same and neither need be Stk. of Corp. Compensation & tenure of office of all officers, other than Pres. V.P. & Dir., fixed by B. of Dir. Dir. to receive fee of \$500, Pres. & V.P. serve without pay unless allowed by others.

In all cases share duties of subordinate

Amended #4



(3)

WE

officers & agents not specified by By-Laws or res. of board, they shall obey instructions of Pres.

Note - Amendment #4, 1/13/21, changes last sentence in Ppg. 1, "unless it be allowed by B. of Dir."

A - VII

President:

Preside on all meetings, entitled to vote in B. of Dir. on all questions. Sign stock cert., contracts etc first approved by B. of Dir. Call Dir. together at will and subject to B. of Dir. have general supervision on affairs of corp. Call sp. meetings on written request of 2 Dir.

V. Pres! -

A - VIII

Act as pres. during his absence.

ATX

Secretary: -

Keep records all meetings all dir. & sth. Keep corporate seal, blank stock cert., keep stock record, fill out cert & countersign. Also keep other books as prescribed by law & pres. as B. of Dir. In case of absence B. of Dir. may appoint an acting Sec.



(4)

WE

A-X

Cap. sth non assess. This By Law shall not be repealed.

A-XI

Treasurer shall keep safely all money & disburse same upon check signed by Pres. V.P. & Sec. a such check no being by B. of Dir.

A-XII

Books & Records, as B. of Dir. directs, shall be open to inspection by stockholders during business hours.

A-XIII

Stockholder to have cert of stock

A-XIV

Transfer of stock

A-XV

Lost & destroyed certificates.

A-XVI Meetings.

Amendment No 1

① - stockholders meetings. Annual met held in May., beg. 1907, and no notice need be given unless B. of Dir. deem proper. maj. of stock to be represented etc. special meetings called by Dir. on written request of 1/10 stock.

Notice of all of meetings in form prescribed by B. of Dir.

A-XVII

Voting. Amended #5



## SANTA ROSA

No legal meeting unless majority of issued stock represented in person or by proxy, except to adjourn from day to day or as deemed proper meetings without notice.

Whenever all parties entitled to vote, whether stockholders or Directors, consent in writing, or in their presence meeting shall be valid. etc.

4 members shall constitute quorum of Bo. of Dir. At reg. monthly meeting quorum can transact business without previous notice.

### A-14 - Voting.

Stockholders by proxy or in person.

### A-15 - Amendment.

By Law repeated or amended at stock. meeting, by maj. of votes of issued stock.

### A-16 - Corp. Seal.

~~Statement.~~

(1st meeting of Stockholders  
Sept 21, 1914.  
By Law. adopted)

Signed

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Santa Rosa.

(6)

Art. of Incorporation.

Under Laws of Calif.

Name - Santa Rosa Mining Co.

Place - Syndicate Mng. Act. -  
as prescribed by Law.

Term - 50 years.

Stock - - - -

Capital - 1500000 sh. 1  $\frac{1}{2}$  cent.

Subscriptions - 70 =

Aug. 6, 1914.



S.R.Bd. of Dir. Dec. 30

Election of new board of Dir.

Authorized checks & vouchers to  
be signed by Sec-Treas. &  
Counter-signed by either Pres. or  
V-Pres.Bd. of Dir. Feb 3, 1915.Authorize checks signed by either  
Pres. or the V.P. or Sec-Treas.All previous resolutions on this  
amended.



Tonopah 16

By Laws.

A-1 - Corporate Powers:-

5 directors, must hold one or more shares of stock, 3 constitutes quorum, meet 10414 2<sup>nd</sup> Tuesday of each month, without notice. special meetings require 5 days notice, by mail. Action of majority, even at not regularly called meeting o.k. if assented to in writing by all the members, valid.

A-2 - Directors elected by ballot at annual <sup>same year until success</sup> meeting, <sup>and</sup> re-elected.

A-3 - Vacancies:-

Filled by other directors in office.

A-4 - Powers of Directors:-

① - Call special stockholders meetings. Shall call meeting on written request of  $\frac{1}{3}$  stock, or on demand in writing of 2 directors.

② - appoint & remove office employees etc.

③ - Manage affairs of corporation.

④ - incur indebtedness. Notes to be signed by Pres. & Secy.

A-5 - Duties of Directors:-

① - Keep complete record and report in full at annual st. meeting or at any other meeting upon request of  $\frac{1}{3}$  of stock.

② - Declare dividends.



- ③. To issue stock not to exceed 150000 shares. To supervise agent etc.

#### A-VI - Officers:-

President, V.P., Sec. & Tr., but 2 may be same. Compensation determined by directors.

#### A-VII - President.

- ① - Preside on all meetings and shall have the casting vote.
- ② - A - Sign all cert. of stock.  
B - Sign contracts if first approved by directors.  
C - Draw checks upon the Tr. or upon such depositories as design. by board of directors.
- ③ - Call dir. together when deemed necessary and manage affairs of corp. subject to board of dir.

#### Vice President

Act as pres. during his absence.

#### A-VIII Secretary.

- ① - Keep record.
- ② - " seal, books, stock cert., sign stock, office seal.
- ③ - Keep transfer book, and stock ledger.
- ④ - Keep proper account books, sign



checks, etc.

(5) - Serve all notices

Assistant Secretary:

Act as Sec. during his absence.

A-TX - Treasurer

Rec. funds, deposit, report to B. of Dir. when required, and to stockholders at special & annual meetings, report to be accompanied by bank statement.

Assistant Treasurer

Act as Tr. during his absence.

A-X - Cert. of stock.

Signed by Pres. & countersigned by Sec. etc.

A-XI - Transfer of stock

At any time by holders, atty. legally constituted, legal representative, by endorsement. Board may issue new cert. for one lost or destroyed.

A-XII - Meetings

Annual stockholders meeting held at office of Co., Oak Hill - Bldg, cor 2nd & Centre St., Reno, 10 AM on 2nd Monday of April, and by notice mailed to each stockholder at least 15 days prior to day of meeting. If



(14). -

no notice given and  $\frac{2}{3}$  of stock be present meeting valid.

no meeting valid without majority quiesced stock, except to adjourn from day to day etc.

at annual meeting directors elected by ballot for one year.

Board of directors may establish office outside of cor. at which st. & Dir. meetings may be held.

#### A - XIII - Voting.

At all corporate meetings each stockholder entitled to 1 vote 1 share. Proxy in writing & filed with Sec.

#### A - XIV - Amendments

By-laws may be altered or amended at any stockholders meeting by a majority of stock represented at meeting, or by  $\frac{4}{5}$  vote of whole no of directors, to be ratified by the first meeting of the stockholders thereafter.

#### A - XV - Seal.

Adopted Apr. 15, 1919.

M. R. Co.

L. S. Reese.



(5.)

W E

A - XVIII

Consolidation and Transfer of  
entire assets.

Possible only through  $\frac{2}{3}$  vote or  
written O.K. of stockholders.

A - XIX

Amendments:-

Sections from to amend, change to  
be submitted to old. at first meeting for  
approval.

By law, except X may be amended  
by  $\frac{2}{3}$  of stock.

Amendment #2

A - XX

Seal.

B. F. E.

D. S.

Harry Demian

May 2/1906 Incorporated.



BY LAWS

1/8/27.

A-1 - 7 Directors - no a more shares in their name.

A-2 - Elected by ballot, one year or until successors elected. Term begins when elected.

A-3 Vacancies filled by other Directors.

A-4 - Powers of Directors.

① - To call special stockholders meetings at any time they deem necessary. Call stockholders meeting on written request of  $\frac{1}{4}$  issued capital stock.

② - Authority over employees.

③ - To conduct affairs of corporation.

④ - To incur indebtedness, borrow and amt, the entered on minutes; and note properly signed and authorized by B. of Dir. shall bind corporation.

⑤ - Further authority to manage and conduct affairs of corporation.

A-5. Duties of Directors

① - Keep complete record of minutes and acts and proceedings of stockholders. At stock. annual meeting present statement assets & liabilities. Same at any other meeting on request of  $\frac{1}{2}$  issued



③  
stock.

- ① - Declare dividends.
- ② - To supervise agents, employees etc and issue cert. of stock.
- ④ - To act for benefit of Corporation.

#### A-5. Officers.

Pres., V. Pres., Sec., Tr.

Elected by board of Dir. compensation and tenure fixed by Board.

#### A-7. - President.

Elected from board, if absent V. Pres. acts if unable to act Dir. choose one of their no. the shall

① - Preside over stockholder meetings.

② - Sign stock, contracts & other instruments in writing which have first been approved by Board.

③ - Call Dir. meetings and subject to advice of Dir. direct affairs of Corp.

Pres. or 2 Dir. may call special Dir. meetings. By leaving printed or written notice at place of business or residence or by mailing notice at least 24 hrs. before time of meeting. Such service of notice be entered in minutes and when approved at later



SANTA ROSA

meeting of Dir. shall be conclusive.  
 Any Dir. may waive serving of notice  
 and his attendance is a waiver.  
 No notice required for regular  
 monthly meeting.

A-8 - Secretary.

Director

- ① - Keep record of proceedings of  
 Bo. of Dir. & stockholders.
- ② - Keep seal & stamp book etc  
 affix corporate seal.
- ③ - Keep transfer book, stock ledgers
- ④ - " acct. books and act as  
 prescribed by Bo. Dir.
- ⑤ - Serve all notices. If unable then  
 Pres. & Pres. or Dir. appoints someone.  
 Custodian of books, papers, records, archives.
- ⑥ - At time of issuance of stock cert.  
 etc. shall get receipt and P.O. address.  
 Each Dir. to sign a similar receipt  
 stockholder notice sent to the address,  
 unless changed prior to mailing.  
 Keep list of addresses, stockholders  
 and Dir.

A-9 - Treasurer

Shall receive funds, deposit as directed



(4)  
by B. of Dir., pay signed by himself  
countersigned by Pres. or as resolution  
by B. of Dir. may direct.

#### A-10 Books & Papers

Books & papers placed on file by vote  
of Dir. a stock. shall, at all times,  
in business hours, be open for  
inspection by any Dir.

#### A-11 Certificates of Stock.

Form as for B. of Dir., Certificate  
signed by Pres. countersigned by Sec.  
Cert. book margin a strip ruled  
no; date, no of shares, name & address.

#### A-12 Transfer of stock.

Method and rules governing.

#### A-13 - Meetings with notice.

##### ① - Annual Meeting.

Held in Oakland, second Monday  
in April, 1944, called by <sup>one or more</sup> newspaper  
notices in Oak for at least 10 days  
prior and by notice in writing <sup>mailed</sup>  
signed by Pres. or Sec., mailed to  
last known address at least 10 days  
prior.

##### ② - Special meeting Called by same notice without newspaper notice.

##### ③ - Majority of stock to be represented



⑥ - Side line agreement on area in question.  
W.E. agrees not to assign rights in  
this area to irresponsible person.  
All court action dismissed, each side  
pays own costs.



11/2/26

# TOH. EXT. WEST END - AGREEMENT.

## Egyptian Vein Area.

Date - May 12, 1924.

Orig. Action T.X. against W.E. July 12, 1915.

① - W.E. declared owner all veins under Egy., G.T., Bor., O.K., and Cabin claims between E. End Line Calif. extended and line extended through Cor. 2 of Calif., for period of 5 years, title then reverts to T.X. W.E. does not relinquish rights beyond T.X.

② - Regarding pipe track etc.

W.E. to have unrestricted right to fill stopes.

" " work in minerlike manner etc.

" " have additional 60 days to remove equip etc.

Work to be through W.E. surface

③ - T.X. pays W.E. \$55000

W.E. withdraws trespass claims.

④ - T.X. relinquished extra-lateral rights on same area as ①, in W.E. territory.

⑤ - T.X. acknowledges payment of all claims against W.E. for above area.



5-4 - Quorum = majority of board.

5-5 - Place of meeting - as decided by resolution of board; provided duplicate stock ledger in principal office in Delaware.

5-6 - Qualification - Director must own not less than 3 shares, be director a resident of Delaware. (Law changed)

5-7 Gen. power of directors, - Management of business, subject to Law, Ch. 6, Sec. 1, & By-Laws.

5-8 - Specific power of board.

- ① - Accept & alter seal.
- ② - Make & change regulations, not contrary to By-Laws for management of Co.
- ③ - To purchase & acquire for Co.
- ④ - To pay in stock, money, bonds etc -
- ⑤ - To borrow & issue notes etc.
- ⑥ - To remove officer for cause, and except Pres. without cause, fix & change salaries.
- ⑦ - To confer any officer with power over subordinates.



5-8

- ⑨ - To determine who shall sign checks etc.  
 ⑩ - " " " " " " " " note or assign  
 in sec. of Co.  
 ⑪ - To delegate from of board to  
 com. a person.  
 ⑫ - To call special meetings stockholders

5-9 - No stated salary but by  
 resolution a fixed fee & exp of attendance  
 may be allowed. Director may be paid  
 pay jointly with Co.

A-3 - 5-1 - Executive Committee.  
 Director may appoint from them no.  
 an Exec Com of 3 members. Maj  
 is quorum and maj. of all members  
 necessary to adopt resolution.

5-2. Authority between meetings  
 of board of directors.

A-4 - 5-1 - Officers - Pres., V.P.  
 Sec & Tr. One person may be Sec-Treas.  
 V.P. & Sec or V.P. & Tr.

5-2 - President



CERT. OF INC.

- 1 - Name.
- 2 - Prin. office Dover, Kent Co., Delaware.  
Res. Agent U.S. Cap. Co.
- 3 - Nature of business.
- 4 - Capital stock \$1,000,000, shares  
one dollar each,  
Amended Dec. 4, 1922, by vote of  
365000 out of 700000 sh. issued,  
\$3000000 cap. sh. \$1 each.
- 5 - Orig subscribers 100. F. C. Carter  
100, H. O. Conklean 100, James  
M. Patterson 800 sh.
- 6 - Corp. perpetual existence.
- 7 - Non liability of stockholders.
- 8 - No of dividends fixed and changeable  
by By-Laws.

Dividends determined when & to what extent  
books of Corp open for inspection by stock-  
holders, other than stock buyers. No  
stockholder can inspect account book or  
document except as provided by statute  
or resolution of stockholders or dividends.  
Dividends may, in their discretion, submit  
contract or act to stockholders, at any  
meeting called for purpose or annual meeting.



and if approved by maj of stock at meeting, if lawful amt of stock be represented, become valid and binding on corp. without assent of stockholders. Directors can make & alter By-Laws, pay dividends, making capital, secure mortgages & all property, use surplus, Directors - empowered to exercise powers and acts as may be done by the corporation - subject to statutes of Delaware. Provided, no By-Law so made shall invalidate any prior act of directors which would have been valid if such By-Law had not been made.

Signed Feb 27, 1912

J. F. C.

H. O. C.

J. M. S.



## text

(5)

S-3 - Vice President.

S-4 - Secretary.

S-5 - Treasurer.

A-5 Resignation Filling of  
Vacancies Increase of no of  
Directors.

S-1 - Resignation: Resig. of  
officer or director in writing, acceptance  
not necessary, transfer of all his  
stock act automatically to resign.

S-2 - Director in office, even less  
than quorum, may appoint.

S-3 - No of directors may be increased  
by majority of directors, or by affirmative  
vote of maj of stock.

A-6 - Capital stock.

S-1 - Issue of stock to stock holders.

S-2 - Transfer of shares.



S-5 - Desiderata.

A-7 - Misc. Provisions.

S-1 - Fiscal year = Calendar year.

S-2 - Principal office, at office of U.S. Corp Co, 311 S 4th St, Des Moines, Iowa, & U.S. C. Co. is resident agent. Duplicate stock ledger kept there.

S-3 - Notice & waiver of notice.

In form of P.O. letter, deemed to have been given on date of mailing.

Notice can be waived by recipient.

S-4 - Interpretation

stockholder = registered owner.

"majority" in interest and "present" Board of Directors.

meeting.

Singular - plural, male - females, natural persons - corporations.

A-8 - Amendments.

S-1 - Ob. by laws by affirmative vote



TON. "76" AGREEMENT.

Date - Nov. 17, 1925.

Expires Nov. 17, 1927.

Note - Same provisions as lease dated Nov. 17, 1923, on following page.

Directors D.K. -

W. J. Harris

V. P.

Mark R. Averill

P.

H. E. Reid.

H. H. Atkinson

L. S. Reese,

Sec.



WEX Lease.

Date. - July 16, 1924. - 3 yrs., with ptm  
on ext. for 3 yrs.

work. - 50 ship per month, cost of work 60  
days cancel lease. Lessee has 6 months  
after termination to remove mined ice & rock.

Sub leasing - Not mentioned.



⑤ - Continued.

30% on ore 30" but less than 50"

40% " " 50" " " " 100"

50% " " 100" or over.

Monthly reports, no. of lots, figures on each lot, remit royalties.

Ore shipped to most advantageous plant.

Ore title remains with lessor until ore sold.

⑥ Lessee furnishes tools etc.

⑦ " keep works clean, comply with state laws.

⑧ Lessee to hold lessor free from bills contracted, accidents, post all notices required by law.

⑨ - Lessee to deliver premises in good cond. at termination of lease.

⑩ - On violation, on option of lessor, lease expires, lessor takes possession.

⑪ - Each clause and covenant bind respective parties hereto.

⑫ - Signed and sealed by proper officers.

①

{ W. J. Harris  
Vice Pres.  
L. L. Reese  
Sec.

②

{ F. M. S. Pres.  
Norman P. Ellis  
Ass. Sec.



3/6/22.

### 1916 Agreement.

Date - April 15, 1919, Expires April 15, 1922.

Condition - If work stopped for 1 year agreement automatically expires.

### New Supplemental Agreement.

Date - April 11, 1921 - 3y - Expires Apr. 11, 24.

### Agreement of Lease. (Copy recd. Dec. 3, 23)

Date - Nov. 17, 1923. - Expires Nov. 17, 1925.

Conditions ① Lessee to work minerlike manner.

② " " " continuously

at least 50 shifts per mo.  
60 days, intermission cancels lease.

③ Lessors 1st of exam. and ins. p.

not oftener than once a week

and no interference with

operations. Representative

must be satisfactory to lessee.

④ Lessee has 6 mo. after expiration  
to remove <sup>mined</sup> ore, mach. etc.

⑤ Rate of royalty determined by  
gross val., amt. on net. ded.  
mill, haul. and losses.

10% on ore less than 15<sup>00</sup>

15% " " 15<sup>00</sup> but less th. 20<sup>00</sup>

20% " " 20<sup>00</sup> " " " 25<sup>00</sup>

25% " " 25<sup>00</sup> " " " 30<sup>00</sup>



5-7 - Power of voting at stockholders meetings, by majority vote of stockholders present in person or proxy, that any qualified voter may demand stock vote.

5-8 - Notice of stockholders meetings. Written notice; stating time, place, general nature of business, at P.O. address of each stockholder, at least 10 days before in case of annual meeting, & 10 days before in case of special " " No business except as stated in notice without unanimous consent of all stockholders present or represented.

A-2 . 5-1 - directs first meeting, after stockholders meeting at N.Y., or as directed by consent in writing of all directors.

5-2 - Election of officers :- Pres & V.P. from Dir. & Tr. & Sec, not necessarily. Hold office until next annual election of officers.

5-3 - Special Meetings called by Pres or Secy. on written request of 2 directors, 5 days notice required.



**STOCKHOLDERS**

A-1 - 5-1 - Meetings of stockholders  
in N. Y.

5-2 - Stockholders are share the vote.  
To enable vote, stock must have been  
transferred 20 day + before election.

5-3 - 51% of stock, person or  
proxy constitutes quorum.

5-4 - If no quorum present,  
after 1<sup>st</sup> hr., meeting adj. by maj. vote  
those present, for max. of 1 month at a time,  
without other notice. A quorum meeting can  
be adjourned also in same manner.

5-5 - Annual meeting in N. Y.  
2<sup>nd</sup> Tuesday in March, at 2 P.M.  
Bd of 5 directors to be elected & their names  
as stated in notice of meeting.

5-6 - Special meetings stockholders  
may be called by Pres or Sec. if they be  
served by notice signed by 2 directors,  
30% interest in stock, or resolution of  
directors.



3/6/22

## Mabel Agreement.

Date - Aug 30, 1921

Escon & seed placed in bank - Sept 28, 1921.

Payments - 5000 May 30, 1922.

(see below) 10000 Sept 30, "

15000 Jan 30, "

15000 May 30, 1923

5000 Sept 30, "

Deposits to be made in Tm Mfg. Corp.

Re shipments :- To begin after 1st payment has been made.

Will not ship at any time.

Royalty to be applied on next once payment.

On ore up to 40% 15% of net.

" " 40 to 60 25% " "

" " 60 + 50% " "

Rate of royalty computed on gross value of ore. Amount of royalty computed on net returns.

Conditions - 90 shifts per month.

Can discontinue work on 10 days written notice.

One year after lease to remove ore.

Can take off machinery, structure, tools, appliances etc.

→ Pp. call for period of 7 mo before first pay. began. date deyd put in bank & payments made. THEY LEFT NO SIGNATURE



3/13/22.

R.R. Rates - Minia to Timofak.

Dec. 10<sup>th</sup> rates.

One Val. - 30<sup>==</sup> - 40<sup>==</sup> - 50<sup>==</sup> - 60<sup>==</sup> - 70<sup>==</sup> - 80<sup>==</sup>

Rate. - 1.90 - 2.50 - 3.80 - 4.10 - 4.40 - 4.70

Overal. 90<sup>==</sup> - 100<sup>==</sup>

Rate 5<sup>00</sup> - 5.30

---

Mabil Agreement. Supplementat  
date. May 25, 1922.

Mar 28, 1923 - 10,000

June 28, " - 15,000

Sept. 28 " - 15,000

Dec. 28 " - 5,000.

Meller & Krugov agreement, use  
of tunnel & portal.

---

Dated Sept 14, 1921.

Time - 2 years. + 60 days



5-1

of majority of stock issued and outstanding. Directors may, at any meeting, by majority vote, provided substance of proposed amendment was contained in notice of meeting. Copy of such amended by-law to be sent to each stockholder within 10 days after adoption.

Proposed amendment:-

12/1/26.

Change time & place of meeting of stockholders & directors.

Art 1 Sec 1. and Sec 5.

Amend 5-1 of Art 8 - cut out  
(copy to be mailed to each stockholder within 10 days after adoption)



AGREEMENT,

11/2/26.

TEN. EXT. - W.E., TEN 76," W.E.X., HAL.

Date - June 12, 1926.

T.X. commenced action Oct. 7, 1924.

① - Ten. "76" and W.E.X. declared owners of ores under New Jersey, Panther and Accidental in "79 Fract - 76 Vein" between W end line 79 Fract and line 1 to W end line 76 claim through pt. 442' E, along side line, to elev 4840, about 20' above floor T.X. 1200 Lev.

Ten. Ex. agrees to work outside vein in T.X. territory, for Ten 76 and WEX, for economical working of this vein.

②. T.X. owns vein below 4840 Elev.

③ - T.X. acknowledges satisfaction for any claimed trespass under N.J., PAN., and Accid.

④ - Ten 76 & W.E.X. rights not affected by faulting.

⑤ Side line agreement covering N side line "76" claim, N boundary line 79 Fract., N side line Protection, N boundary Keystone.

⑥ - Court actions dismissed, each pay own costs.



4/17/22.

# TROY & AV. COMPARISONS.

$$\underline{\text{TROY POUND}} = 5760 \text{ GR.} = 12 \text{ OZ.} = .822286 \text{ Av. LB.}$$

$$\underline{\text{AV. POUND}} = 7000 \text{ GR} = 16 \text{ OZ} = 1.21528 \text{ TR. LB.} = 14.5833 \text{ TR. OZ.}$$

$$\underline{\text{TROY OUNCE}} = 480 \text{ GR} = 1.09714 \text{ Av. OZ.}$$

$$\underline{\text{AV. OUNCE}} = 437.5 \text{ " } = .911458 \text{ TR. OZ.}$$

$$\begin{aligned} 1 \text{ Av. Ton } 2000 \# &= 32000 \text{ Av OZ} \\ &= 29166.66 \text{ TR OZ.} \end{aligned}$$



4/13/20.

# SIM BUTLER LEASE

Date. - Feb. 28, 1919. - No expiration date. <sup>until he dies</sup> <sup>not for</sup> <sup>30 days</sup> <sup>stop</sup>

Fraction Unit. - Claim to be settled for 33000. V.B.

admits title to 500 from S.E. Co. of N.E. claim  
westward (not along S.E. line of N.E. claim) is in  
N.E. Co.

Lease Territory. - That portion of Eureka & Summit  
min claims westward from, outside of and beyond  
westward extralateral plane in N.E. claim as  
determined by Dist. Court judgment and affirmed  
by U.S. Supreme Court June 10, 1918.

Fraction Unit. - Eastward end line of N.E. claim  
to N 500 feet. 11 to end line.



71 WEST END CONSOLIDATED MINING CO.  
STATEMENT OF CAVE SPRING OPERATIONS  
1917

Statement of Cave Spring  
Operations 1917  
71 Feb waiting

(254)

Item 118

7 of 71

4840 0890

MICRO FILMED AS  
(4840 0118)



W E S T   E N D   C O N S O L I D A T E D   M I N I N G   C O M P A N Y

STATEMENT OF CAVE SPRING OPERATIONS

	<u>APRIL--1917</u>	<u>4 MOS. TO DATE</u>
Labor and Supplies at Cave Spring	\$763.32	\$3119.36
Expenses at Tonopah	25.00	600.04
Experimental Work at Oakland	<u>958.74</u>	<u>1801.54</u>
TOTAL - - -	-\$1747.06	\$5520.94



WEST END CONSOLIDATED MINING COMPANY

Statement of Cave Spring Operations

	<u>MARCH--1917</u>	<u>3 MOS. TO DATE</u>
Labor and Supplies at Cave Spring	\$868.61	\$2356.04
Expenses -- Tonopah	56.65	575.04
Experimental work -- Oakland	<u>726.80</u>	<u>842.80</u>
TOTAL - - - - -	\$1652.06	\$3773.88



# WEST END CONSOLIDATED MINING COMPANY

## STATEMENT OF CAVE SPRING OPERATIONS.

JANUARY -- 1917

Labor and supplies at Cave Spring	\$ 590.93
Experimental work at Tonopah	<u>327.39</u>
TOTAL - - - -	\$ 918.32

	<u>FEB. -- 1917</u>	<u>2 MOS. TO DATE</u>
Labor and supplies at Cave Spring	\$ 896.50	\$1437.43
Experimental work at Tonopah	198.00	525.39
Experimental work at Oakland	<u>116.00</u>	<u>116.00</u>
TOTAL - - - - -	\$1210.50	\$2128.82

*Copy to Mr Smith & Edwards 3/24/17*



WEST END CONSOLIDATED MINING COMPANY

STATEMENT OF CAVE SPRING OPERATIONS

	<u>JULY -- 1917</u>	<u>7 MOS. TO DATE</u>
Labor and Supplies at Cave Spring	\$ 618.11	\$ 5665.99
Expenses at Tonopah	93.68	743.72
Experimental Work at Oakland	<u>682.00</u>	<u>4425.52</u>
TOTAL - - - -	\$1393.79	\$10835.23



W E S T   E N D   C O N S O L I D A T E D   M I N I N G   C O M P A N Y

STATEMENT OF CAVE SPRING OPERATIONS

	<u>JUNE -- 1917</u>	<u>6 MOS. TO DATE</u>
Labor and Supplies at Cave Spring	\$ 748.10	\$5047.88
Expenses at Tonopah	25.00	650.04
Experimental Work at Oakland	<u>919.41</u>	<u>3743.52</u>
TOTAL - - - - -	\$1692.51	\$9441.44



W E S T   E N D   C O N S O L I D A T E D   M I N I N G   C O M P A N Y

STATEMENT OF CAVE SPRING OPERATIONS

	<u>MAY -- 1917</u>	<u>5 MOS. TO DATE</u>
Labor and Supplies at Cave Spring	\$1180.42	\$4299.78
Expenses at Tonopah	25.00	625.04
Experimental Work at Oakland	<u>1022.57</u>	<u>2824.11</u>
TOTAL - - - -	\$2227.99	\$7748.93



W E S T E N D C O N S O L I D A T E D M I N I N G C O M P A N Y

STATEMENT OF CAVE SPRING AND DAGGETT OPERATIONS

	<u>OCT. -- 1917</u>	<u>10 MOS. TO DATE</u>
Labor and supplies at Cave Spring	\$ 459.54	\$ 7126.82
Cave Spring expenses at Tonopah	40.00	873.52
Experimental Work at Oakland		<u>4866.58</u>
TOTAL CAVE SPRING ---	\$499.54	12866.92
 Labor and Supplies at Daggett	 241.45	 241.45
Experimental work at Oakland on Daggett ore,	 111.64	 1147.52
TOTAL DAGGETT ----	<u>353.09</u>	<u>1388.97</u>
 <u>G R A N D T O T A L</u> ----	 \$852.63	 14255.98



W E S T   E N D   C O N S O L I D A T E D   M I N I N G   C O M P A N Y

STATEMENT OF CAVE SPRING AND DAGGETT OPERATIONS

	<u>SEPT. -- 1917</u>	<u>9 MOS. TO DATE</u>
Labor and supplies at Cave Spring	\$ 637.15	\$ 6667.28
Cave Spring expenses at Tonopah	25.00	833.52
Experimental work at Oakland	<u>--</u>	<u>4866.58</u>
TOTAL CAVE SPRING ----	\$662.15	\$12367.38
Experimental work at Oakland on Daggett ore,	<u>698.93</u>	<u>1035.88</u>
TOTAL -----	\$1361.08	\$13403.26



W E S T   E N D   C O N S O L I D A T E D   M I N I N G   C O M P A N Y

STATEMENT OF CAVE SPRING OPERATIONS

	<u>AUGUST - 1917</u>	<u>8 MOS. TO DATE</u>
Labor and Supplies at Cave Spring	\$ 364.14	\$ 6030.13
Cave Spring Expenses, Tonopah,	64.80	808.52
Experimental work at Oakland on Cave Spring ore,	<u>441.06</u>	<u>4866.58</u>
TOTAL CAVE SPG. 870.00		11705.23
 Experimental work at Oakland on Dagget ore,	 <u>336.95</u>	 <u>336.95</u>
TOTAL ---	\$1206.95	\$12042.18



WEST END CONSOLIDATED MINING COMPANY

STATEMENT OF CAVE SPRINGS AND DAGGETT OPERATIONS

	<u>DEC. -- 1917.</u>	<u>12 MOS. TO DATE</u>
Labor and Supplies at Cave Springs	15.80	7650.75
Cave Springs Expense at Tonopah	-	873.52
Experimental Work at Oakland	<u>-</u>	<u>4866.58</u>
TOTAL CAVE SPRINGS -----	\$15.80	\$13390.85
Labor and Supplies at Daggett	471.24	1255.28
Experimental Work at Oakland	<u>-</u>	<u>1147.52</u>
TOTAL DAGGETT-----	\$471.24	\$2402.80
<u>GRAND TOTAL</u>	\$487.04	\$15793.65



W E S T E N D C O N S O L I D A T E D M I N I N G C O M P A N Y

STATEMENT OF CAVE SPRING AND DAGGETT OPERATIONS

	<u>NOV. -- 1917</u>	<u>11 MOS. TO DATE</u>
Labor and supplies at Cave Springs	\$ 508.13	\$7634.95
Cave spring expense at Tonopah	-	873.52
Experimental Work at Oakland	<u>-</u>	<u>4866.58</u>
TOTAL CAVE SPRINGS--	\$ 508.13	\$13375.05
Labor and Supplies at Daggett	542.59	784.04
Experimental Work at Oakland	<u>-</u>	<u>1147.52</u>
TOTAL Daggett --	542.59	1931.56
<u>G R A N D T O T A L -</u>	\$1050.72	\$15306.61



72 WEST END CONSOLIDATED MINING CO.  
MISCELLANEOUS PAPERS

1920's

72 CERTIFICATE OF LOCATION- PLACER  
West End Cons Mining Co - Misc

(254) Item 118

8 of 71

4840 0890

(Micro Filmed As  
4840 0118)



Photos. Thin sections.

403 xlg ad vained by clay -

69 shards -

114 clastic

140-141 xls of ab, ad, qtz -

66 shards → chlorite

67 sandine + qtz grains, clay rest.

90 shards

? 391 adulterated fragment cut by qtz veinslets  
which do not penetrate matrix -

40v shards -

107 chlorite in perlitic cracks)

281 GT texture -

325 Perlitic cracks

224 qtz + ad sept chl. in amygdulae.

68 SA non back field -



# Fraction Extension

300'  $\pm$  deep -

6060

75-80' buff -

below TR



1200 Winchell - add Gert.

1300 " " "

1440-180 x add Gert.

270 { Winchell - Gert.

320 }

Fluv.

St. Western 5714<sup>04</sup>

Tan "76" from

2nd diameter large can,



Land Grant 1200 Level  
 at Cond 692 - 5778  
 is 4760.3

1300  
 at Cond 601 - 5848  
 is 4662.5

~~West End 8165 N = Belmont 0 } approx.  
 " " 8075 E = " 0 }  
 N. Star 5425 N = Belmont 0 } exact.  
 " " 8075 E = " 0 }  
 N. Star 0 = West End 2740 N } approx.  
 " 0 = " " 3 W }~~

West End } 8175 N = { Belmont  
 Halifax } Tom. Min.  
 N. Star } Jim Butler } 0

" 8075 E = " 0

Montana 10,000 E = WE 6770 E  
 " 10,000 N = WE 6437 N.

8175 N = 0

6775 = 16003

10200 N = 6637  
 8075  
 6975



Machinery  
offers, sales, etc

1930-35



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

192

Following Material Used

(Insert Working Place Here)

10 gal Gasoline.



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

(Insert Working Place Here)

7 gal Gasoline



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

(Insert Working Place Here)

6 Gals Gas

1 Quart oil

174

18

192

J.M.W.

Billed



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

7/7

192

8

Following Material Used

*W. Menefee*  
(Insert Working Place Here)

*8 gal Gasoline.*

*Billed*

2 32



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

(Insert Working Place Here)

8 Gals Gas.



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

(Insert Working Place Here)

16 Gals Gas

274

Billed

4 64



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

192

Following Material Used

(Insert Working Place Here)

10 Gals Gas

J.M.D.

Billed



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

7/6

192

8

Following Material Used

*R. L. McArthur*

(Insert Working Place Here)

*4 gal Manganese Oil*



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

*Geo Waddle*

(Insert Working Place Here)

*13 Gal Gasoline.*



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

(Insert Working Place Here)

10 gals Gas.

J. H. W.

Pulled



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

*E. Menabauer*

(Insert Working Place Here)

*13 gal Gasoline*

*Billed*



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

192

Following Material Used

*E. Menzies*

(Insert Working Place Here)

*9 Gal Gasoline*

*Billed*



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

July 3

1925

Following Material Used

John Bombasseri

(Insert Working Place Here)

15 gals Gas.

4 35-

2 gals Mow Oil.

1 40

5 75-

J. N. O.  
Billed



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

*July 19,*

192*8*

Following Material Used

*John Bertoldi*

(Insert Working Place Here)

*5 1/2 Gals Gas*

*J.M.D.*

*Billed*

*1 60*



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

(Insert Working Place Here)

3 gal Gasoline

J N N

Billed



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

192

Following Material Used

(Insert Working Place Here)

6 Gals Gas.

1 74

Billed



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

(Insert Working Place Here)

6 gal Gasoline



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

192

Following Material Used

(Insert Working Place Here)

8 gal Gasoline



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

*M. Erenson*  
(Insert Working Place Here)

*14 gal Gasoline*



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

7/31 1928

Following Material Used

*M. Expense*  
(Insert Working Place Here)

*10 1/2 Gal Gasoline*



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

192

Following Material Used

(Insert Working Place Here)

5 Gal Gasoline



# HALIFAX TONOPAH MINING CO.

TONOPAH, NEVADA,

1928

Following Material Used

*M. Evensen*

(Insert Working Place Here)

*21 gal Gasoline*



T440 py <sup>cp</sup>ol, gl & gte - usual relationships

T356 same w carbonate

T357 same plus arifite (later than sl)

T423 { argenbite + py sl cp. sl  
electrum

Metallic minerals are later than  
the gfs - as is also carb.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Ext. Mng. Co.

Mill Lot No.        5072

Shipper's Lot No. 115

### ASSAYS:

Gold	.12	Ozs. at \$20.00		2.40
Silver	14.20	Ozs. at	.5425	7.70
Gross value per ton				10.10
Less Loss in Milling 10 per cent				1.01
Net value per ton				9.09
Wet weight of ore	102750	lbs.		
Less Moisture 2.5%	2568	"		
Dry weight of ore	100182	"	at 9.09 per ton	455.33
Milling:	50.091	dry tons at	4.25	212.89
Hauling	51.375	wet tons at	.30	15.41
NET RETURNS				227.03
Royalty to West End Ext. Mng. Co. @ 10%				22.70

New York Silver Quotation of      54 $\frac{1}{4}$

Date of sampling      3/13/27

APPROVED: \_\_\_\_\_

*OH J. alby*  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mining Co.

Mill Lot No. 5070

Shipper's Lot No. 114

### ASSAYS:

Gold	.15	Ozs. at \$20.00		3.00
Silver	14.85	Ozs. at .55		8.17

	11.17
--	-------

Less Loss in Milling 10 per cent	1.12
----------------------------------	------

	10.05
--	-------

Wet weight of ore	69760	lbs.		
Less Moisture 2.5%	1744	"		
Dry weight of ore	68016	"	at 10.05 per ton	341.78

Milling:	34.008	dry tons at	4.25	144.53	
Hauling	34.880	wet tons at	.30	10.46	154.99

NET RETURNS	186.79
-------------	--------

Royalty to West End Ext. Mining Co. @ 10%	18.68
-------------------------------------------	-------

New York Silver Quotation of 55¢

Date of sampling 3/11/27

APPROVED: \_\_\_\_\_

Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5067

Shipper's Lot No. 113

### ASSAYS:

Gold	.16	Ozs. at \$20.00	3.20
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Silver	15.45	Ozs. at .5525	8.54
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Gross value per ton	11.74
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Less Loss in Milling 10 per cent	1.17
----------------------------------	------

Net value per ton	10.57
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Wet weight of ore	101280	lbs.	
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Less Moisture 2.5%	2532	"	
--------------------	------	---	--

Dry weight of ore	98748	"	at 10.57 per ton 521.88
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Milling:	49.374	dry tons at	4.25	209.84
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Hauling	50.640	wet tons at	.30	15.19
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NET RETURNS	296.85
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Royalty to West End Ext. Mining Company @ 10%	29.68
-----------------------------------------------	-------

New York Silver Quotation of 55 $\frac{1}{4}$

Date of sampling 3/9/27

APPROVED: \_\_\_\_\_

*Off J. L. H.*

Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Ext. Mng. Co.

Mill Lot No.            5063

Shipper's Lot No.      112

### ASSAYS:

Gold	.16	Ozs. at \$20.00	3.20
Silver	18.05	Ozs. at .5575	10.06
Gross value per ton			13.26
Less Loss in Milling 10 per cent			1.33
Net value per ton			11.93

Wet weight of ore	96940	lbs.	
Less Moisture 2.5%	2424	"	
Dry weight of ore	94516	" at 11.93 per ton	563.79

Milling:	47.258	dry tons at	4.25	200.85	
Hauling	48.470	wet tons at	.30	14.54	215.39

### NET RETURNS

348.40

Royalty to West End Ext. Mng. Co. @ 10%      34.84

New York Silver Quotation of      55-3/4

Date of sampling      3/7/25

APPROVED: \_\_\_\_\_

*Oth. J. [Signature]*  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Ext. Mng. Co.

Mill Lot No.              5061

Shipper's Lot No.        111

### ASSAYS:

Gold	.14	Ozs. at \$20.00		2.80
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Silver	14.10	Ozs. at .56125		7.91
--------	-------	----------------	--	------

	Gross value per ton	10.71
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Less Loss in Milling 10 per cent		1.07
----------------------------------	--	------

	Net value per ton	9.64
--	-------------------	------

Wet weight of ore	56090	lbs.
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Less Moisture 2.5%	1402	"
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Dry weight of ore	54688	"	at 9.64 per ton	263.60
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Milling:	27.344	dry tons at	4.25	116.21
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Hauling	28.045	wet tons at	.30	8.41	124.62
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NET RETURNS	138.98
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Royalty to West End Ext. @ 10%	13.90
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New York Silver Quotation of      56-1/8

Date of sampling      3/5/27

APPROVED: \_\_\_\_\_

*OH J. J. J.*  
Secretary.



\*

3 7.8 4  
1 3.9 0  
3 4.8 4  
2 9.6 8  
1 8.6 8  
2 2.7 0  
1 6.8 1  
2 1.2 2  
1 7.5 0  
2 4.1 6  
2 1.1 1  
1 9.4 0  
2 7.1 0  
2 3.5 1  
5 3.4 5,  
7 0.1 1  
2 5.9 7  
2 9.5 0

5 0 7.4 8 \*



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Extension Mng. Co.

Mill Lot No.      5059

Shipper's Lot No. 110

### ASSAYS:

Gold	.15	Ozs. at \$20.00		3.00
Silver	17.45	Ozs. at .55625		9.71
				12.71
Gross value per ton				12.71
Less Loss in Milling 10 per cent				1.27
				11.44
Net value per ton				11.44
Wet weight of ore	112780	lbs.		
Less Moisture 2.5%	2820	"		
Dry weight of ore	109960	" at 11.44	per ton	628.97
Milling:	54.980	dry tons at	4.25	233.67
Hauling	56.390	wet tons at	.30	16.92
				250.59
NET RETURNS				378.38
Royalty to West End Ext. Mining Co. @ 10%				37.84

New York Silver Quotation of 55-5/8

Date of sampling 3/4/27

APPROVED: \_\_\_\_\_

*Q. H. F. J. A. L.*  
Secretary.



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054)

1420

1423

Mar. 8

Mar. 16

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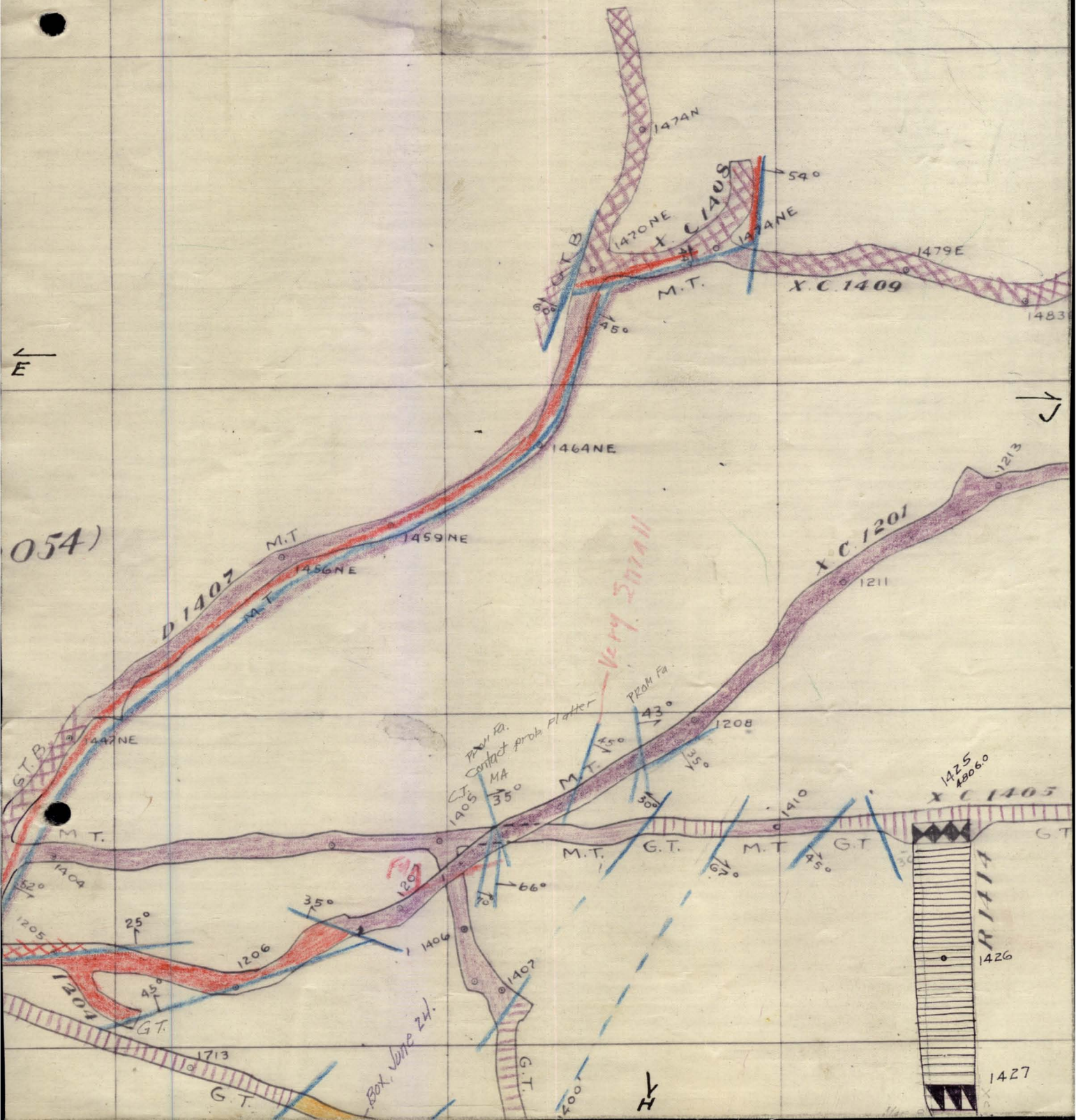


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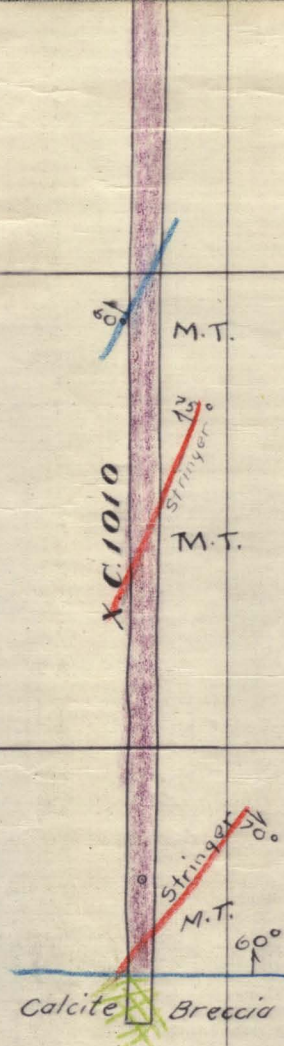


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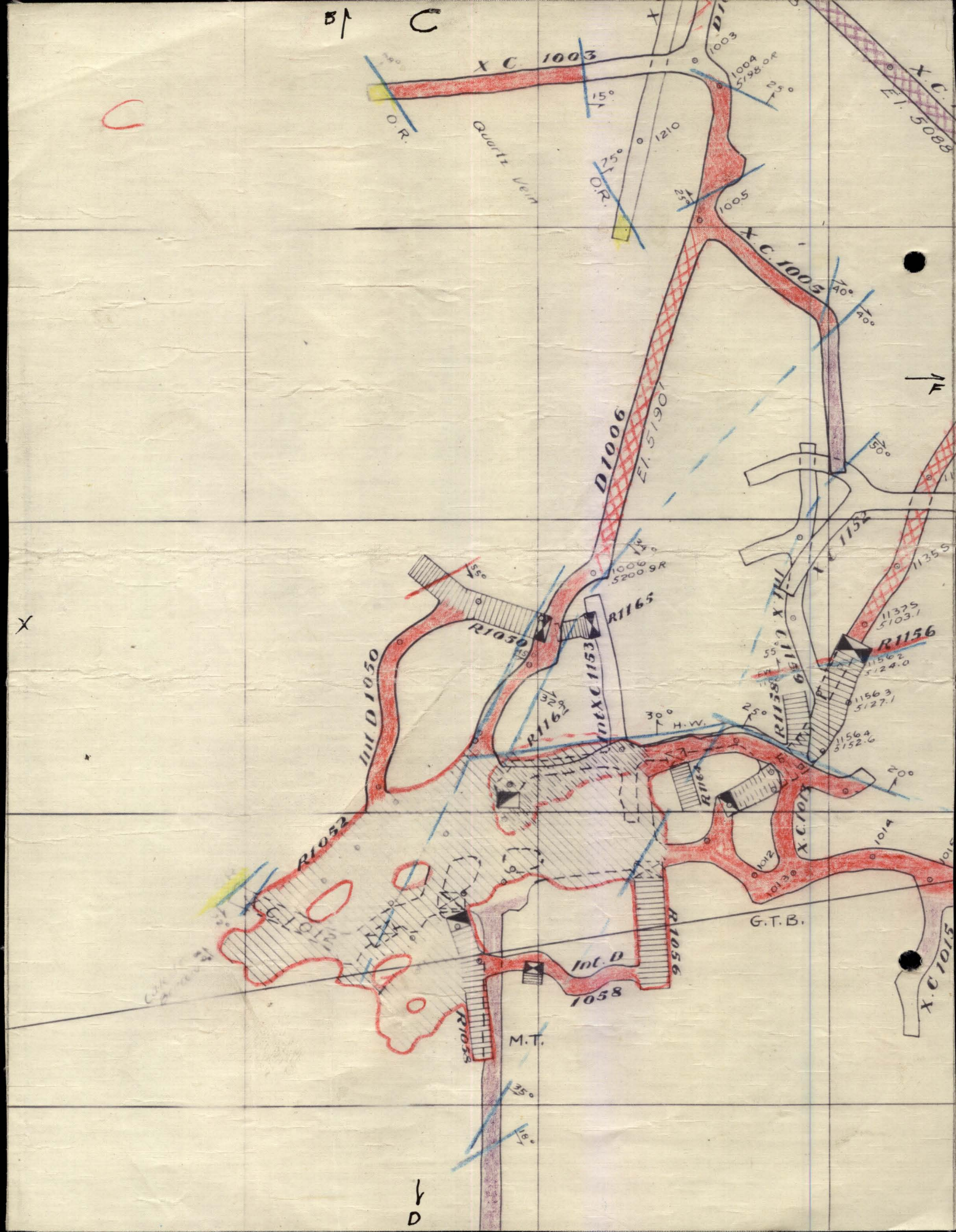


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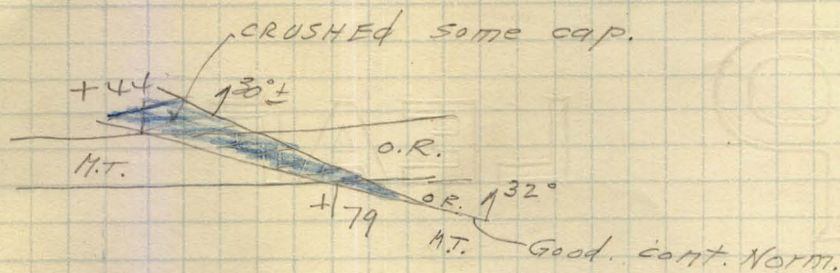


01215

FW  
01215 +25 dyk Lt. dip.  $67^{\circ}$  E Irreg. int both walls. 3' Vol.  
01218 +25<sup>HW</sup> dyk. Lt. "  $60^{\circ}$  E Md. drift.  
+35<sup>HW</sup> " Rt. " " " ?

Fault.  $S 75^{\circ} N \rightarrow 32^{\circ} E$

At 01265 +44 Fg. Lt. +79 F Rt.



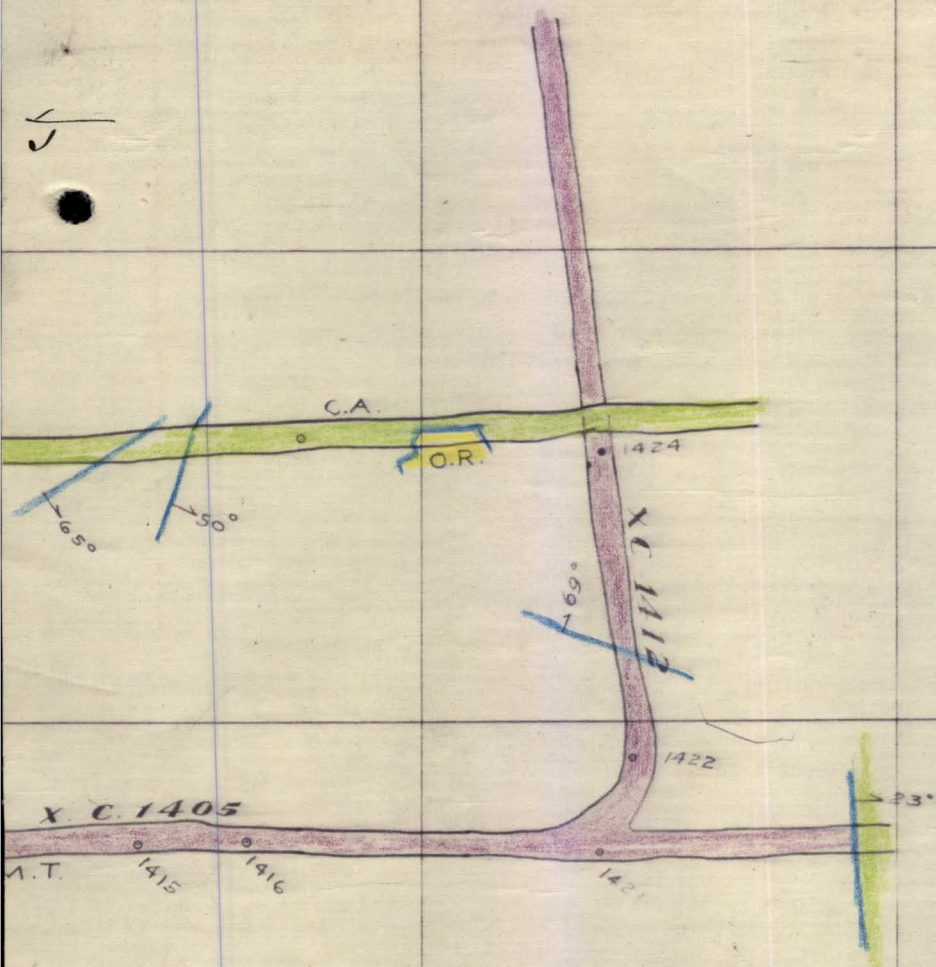


HALIFAX N

L<sup>x</sup>

L

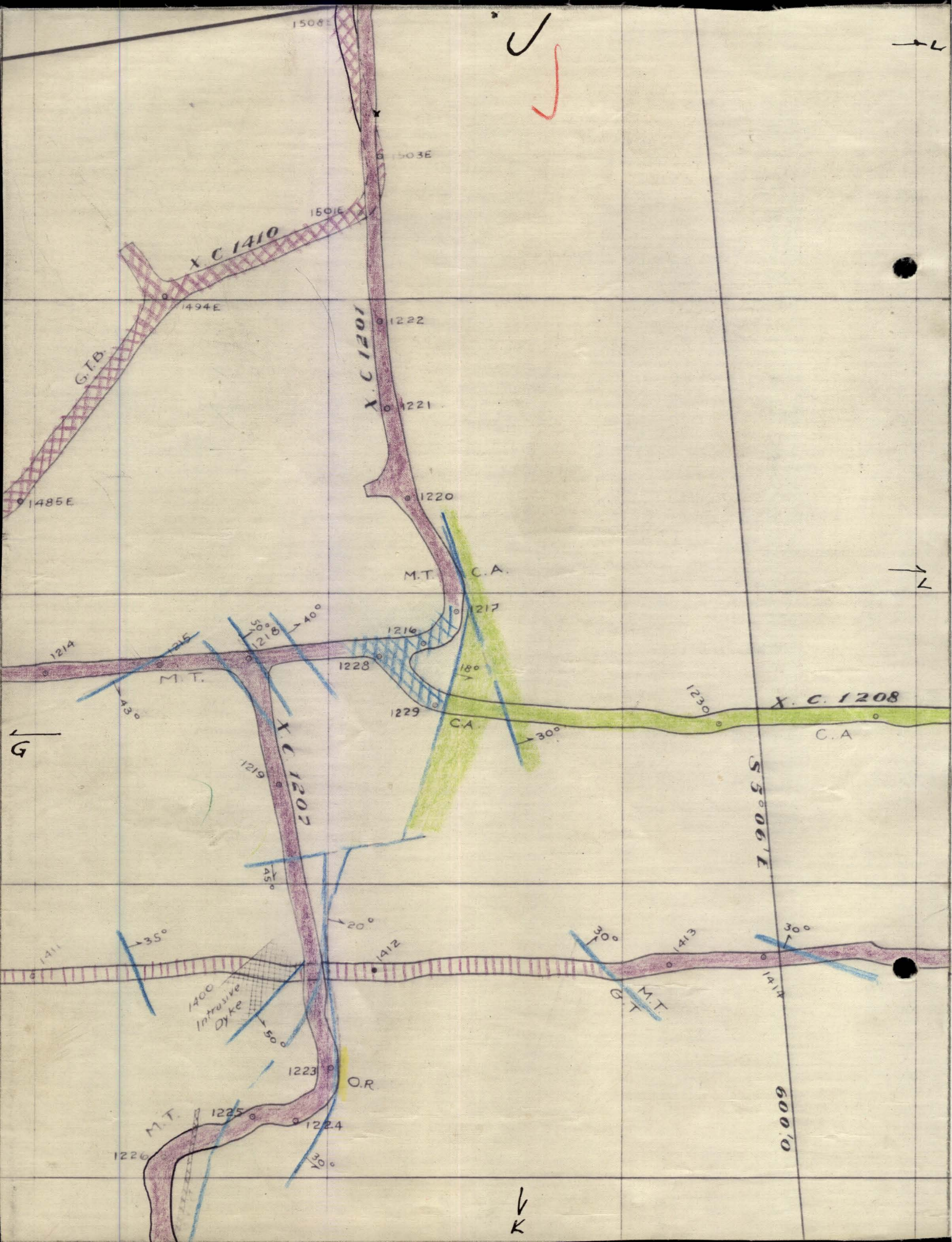
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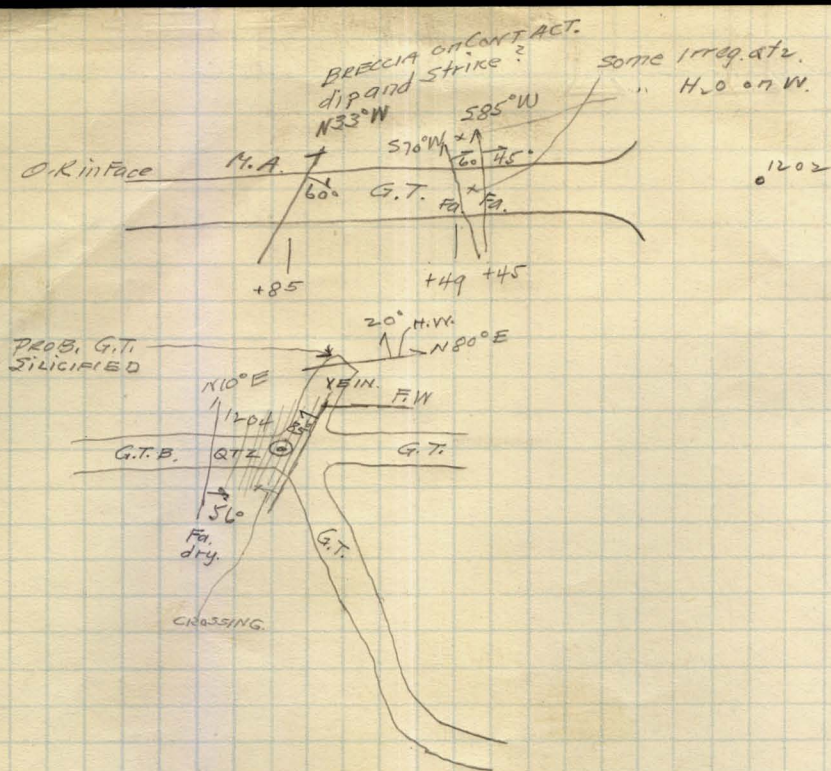
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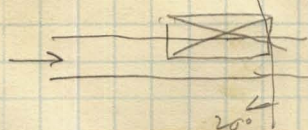


above floor.  
up 22' cut

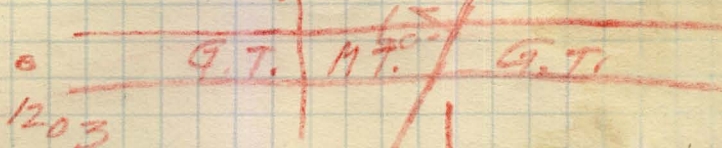
1244R

March 28, 1917.

Corr. slip.



North. Cor. N10°E small Fa.





HALIFAX GEOLOGY SHEETS.

1200 LEVEL.



HALIFAX GEOLOGY SHEETS.

1100 LEVEL.



6400

6300

6200

6100

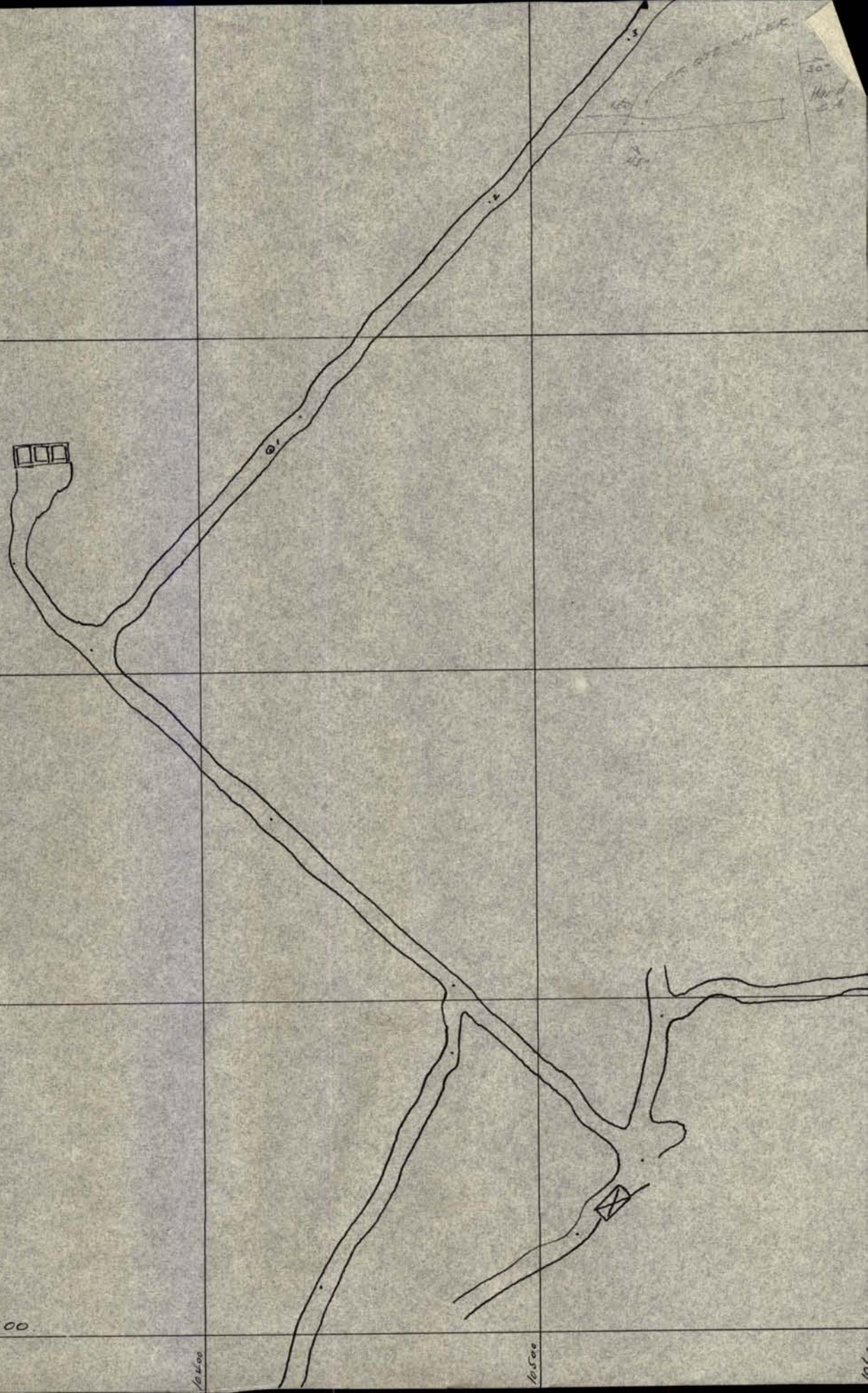
6000

HALIFAX 1100

10300

10400

10500





6800

6700

6600

6500

6400

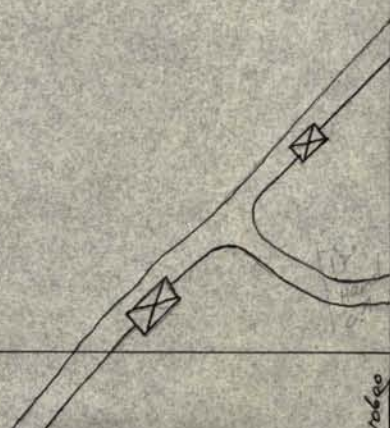
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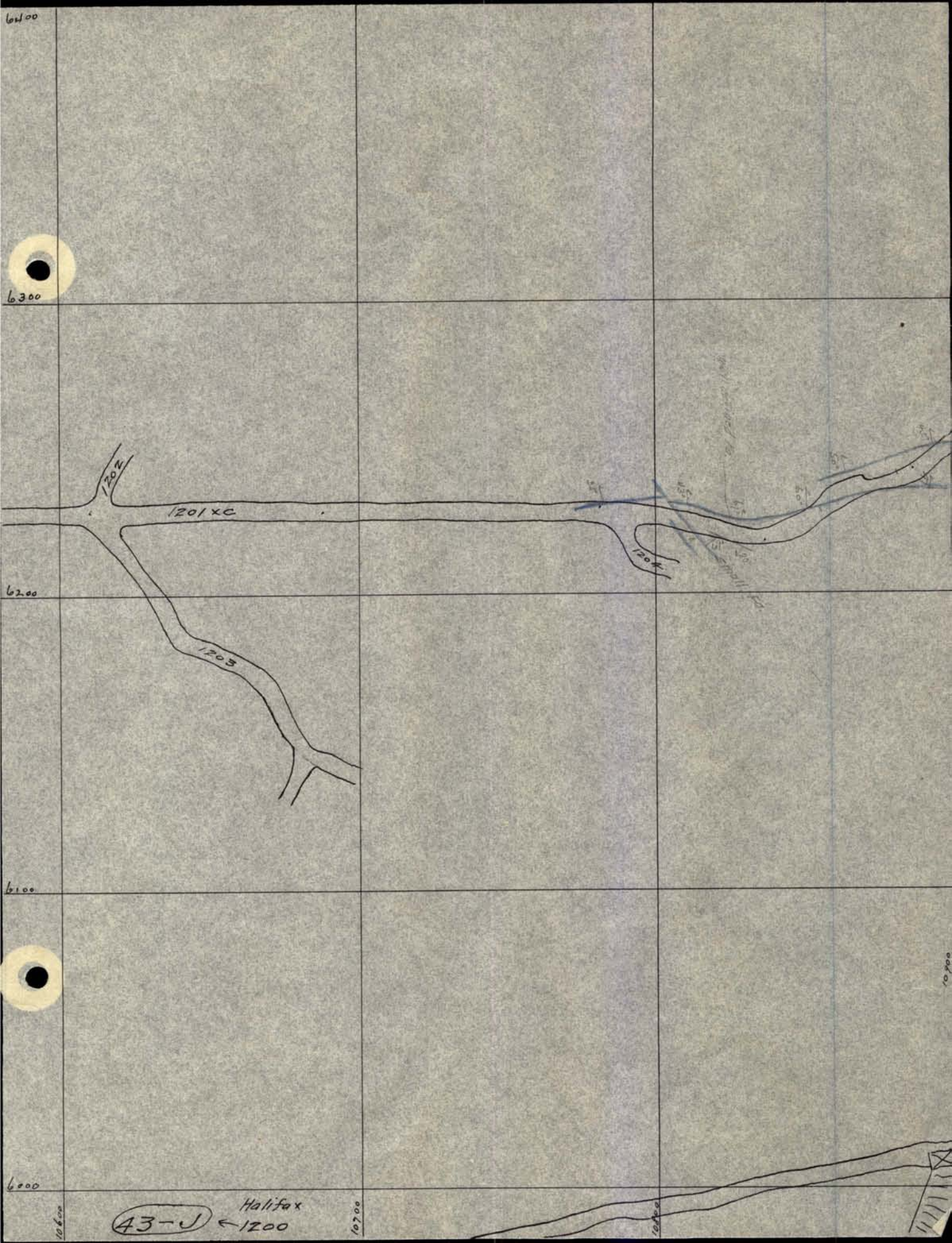
10500

10600

HALIFAX 1100









6300

6200

6100

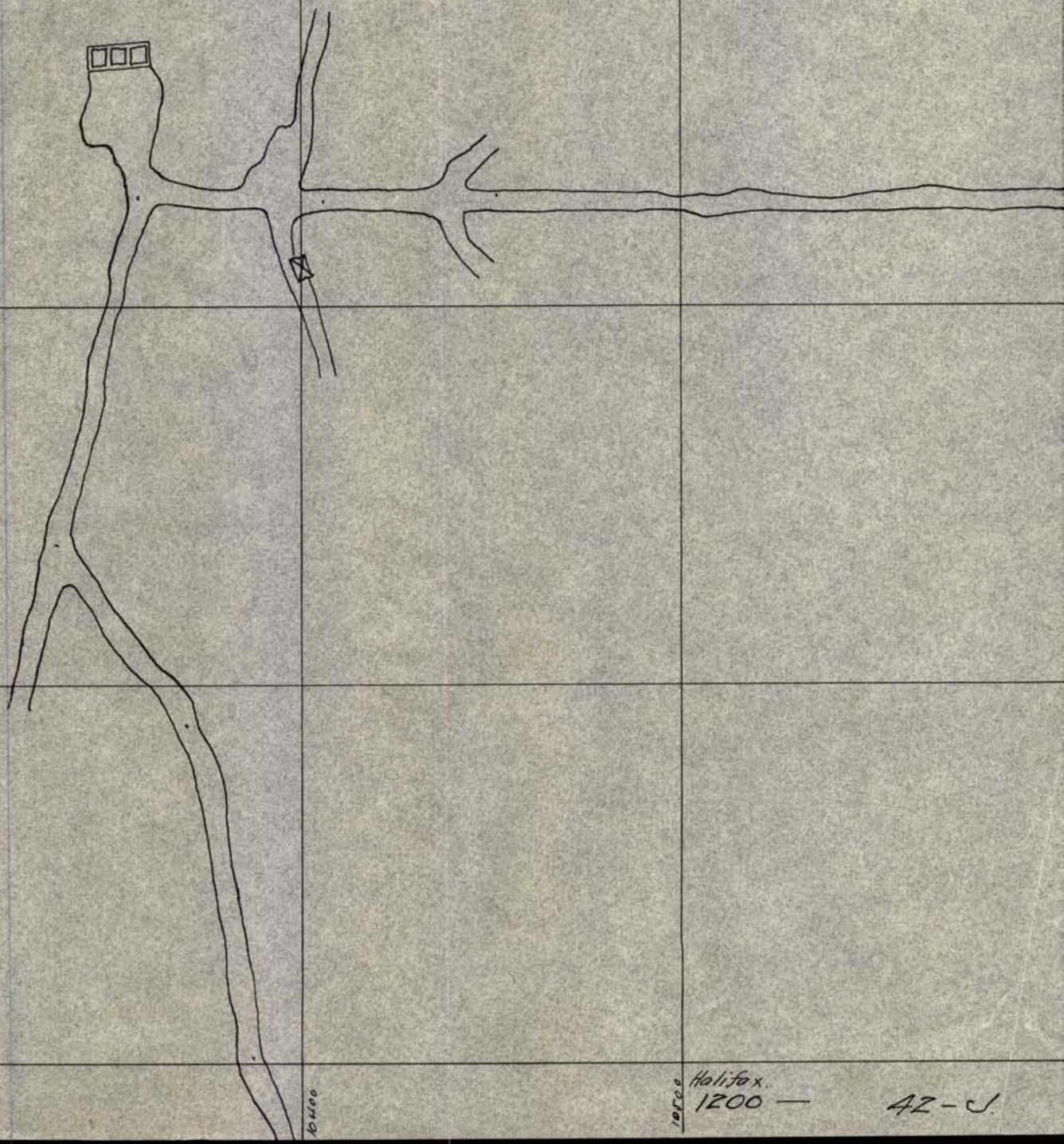
6000

10300

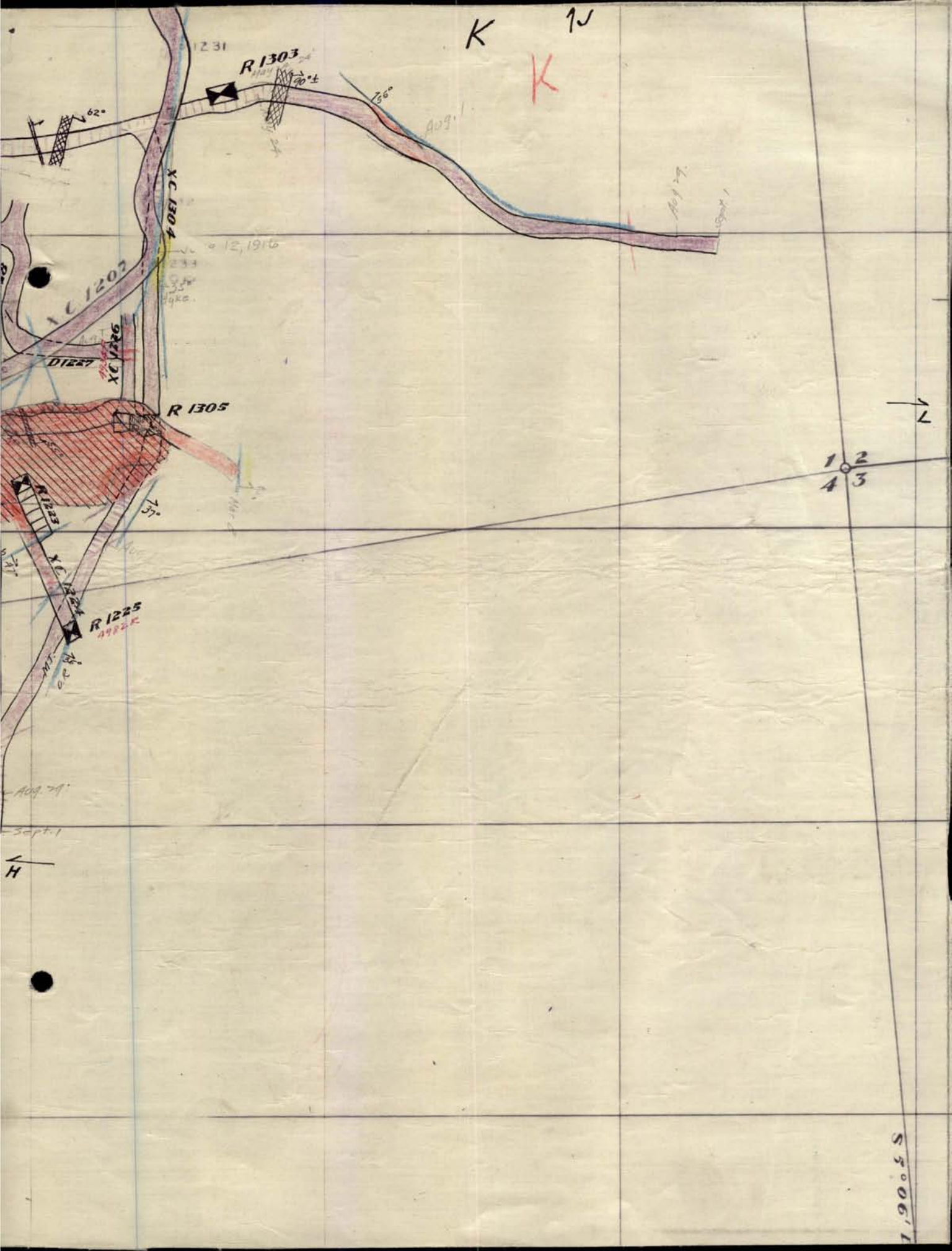
10400

Halifax  
1200 —

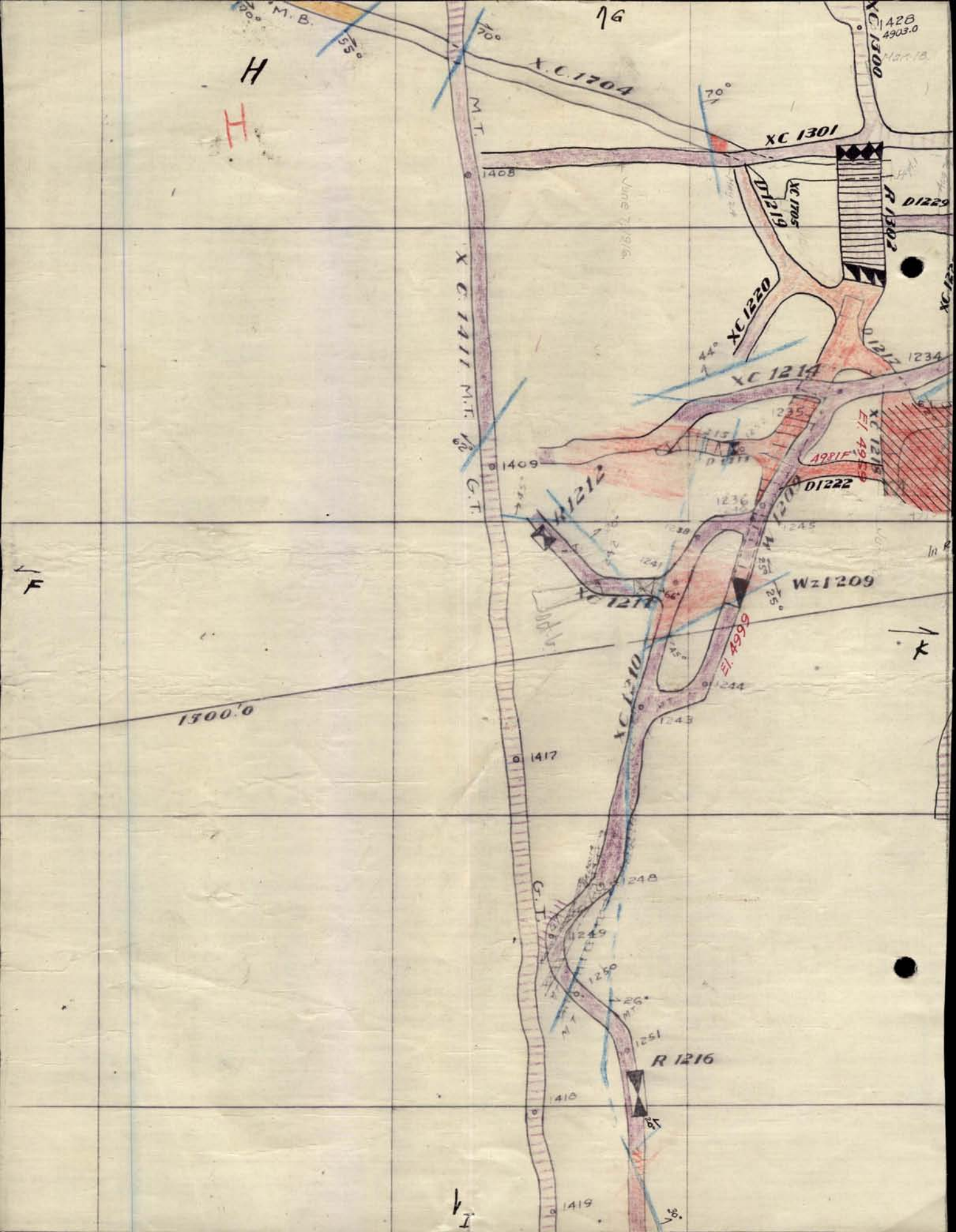
42-J



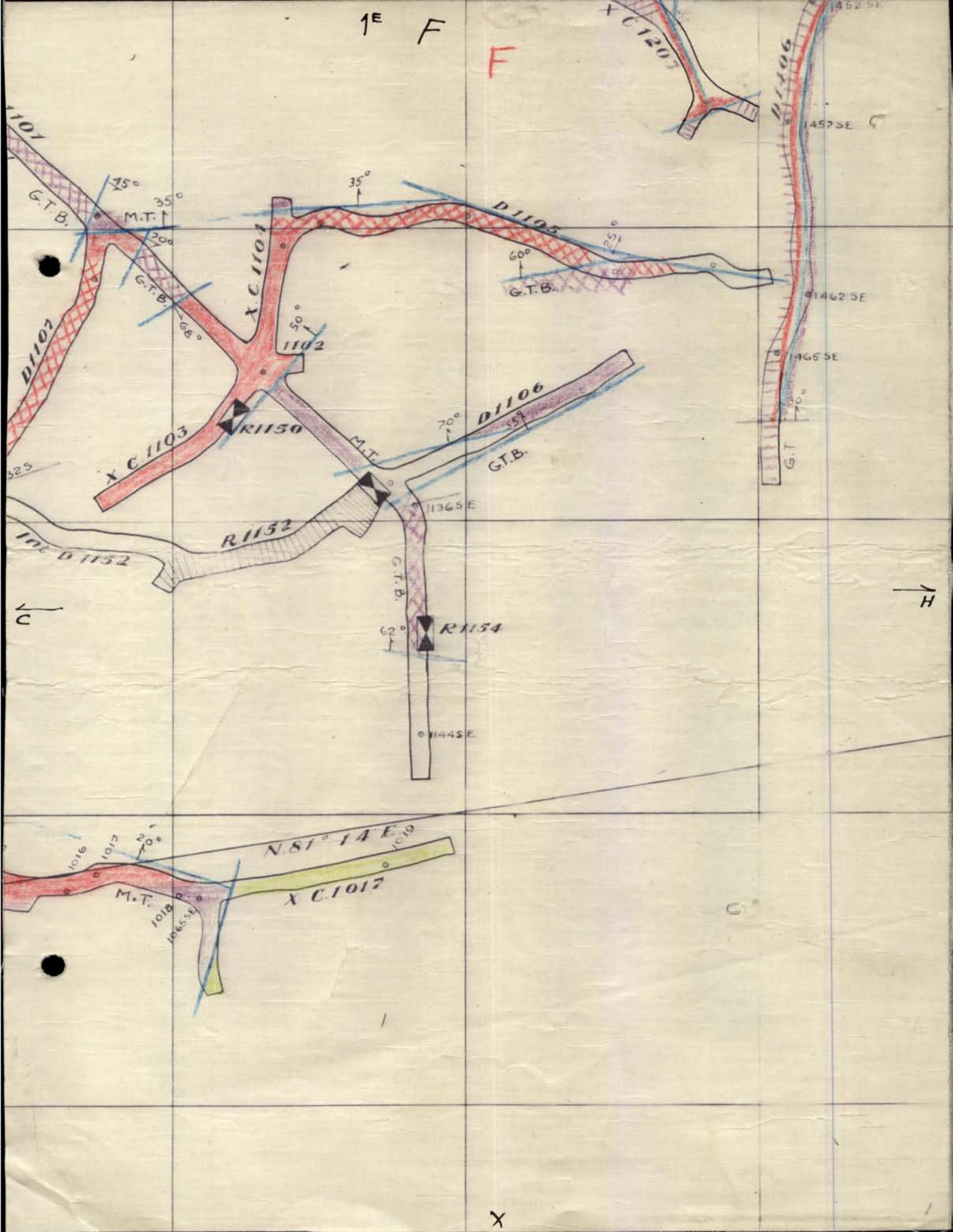














5900

5800

5700

5600

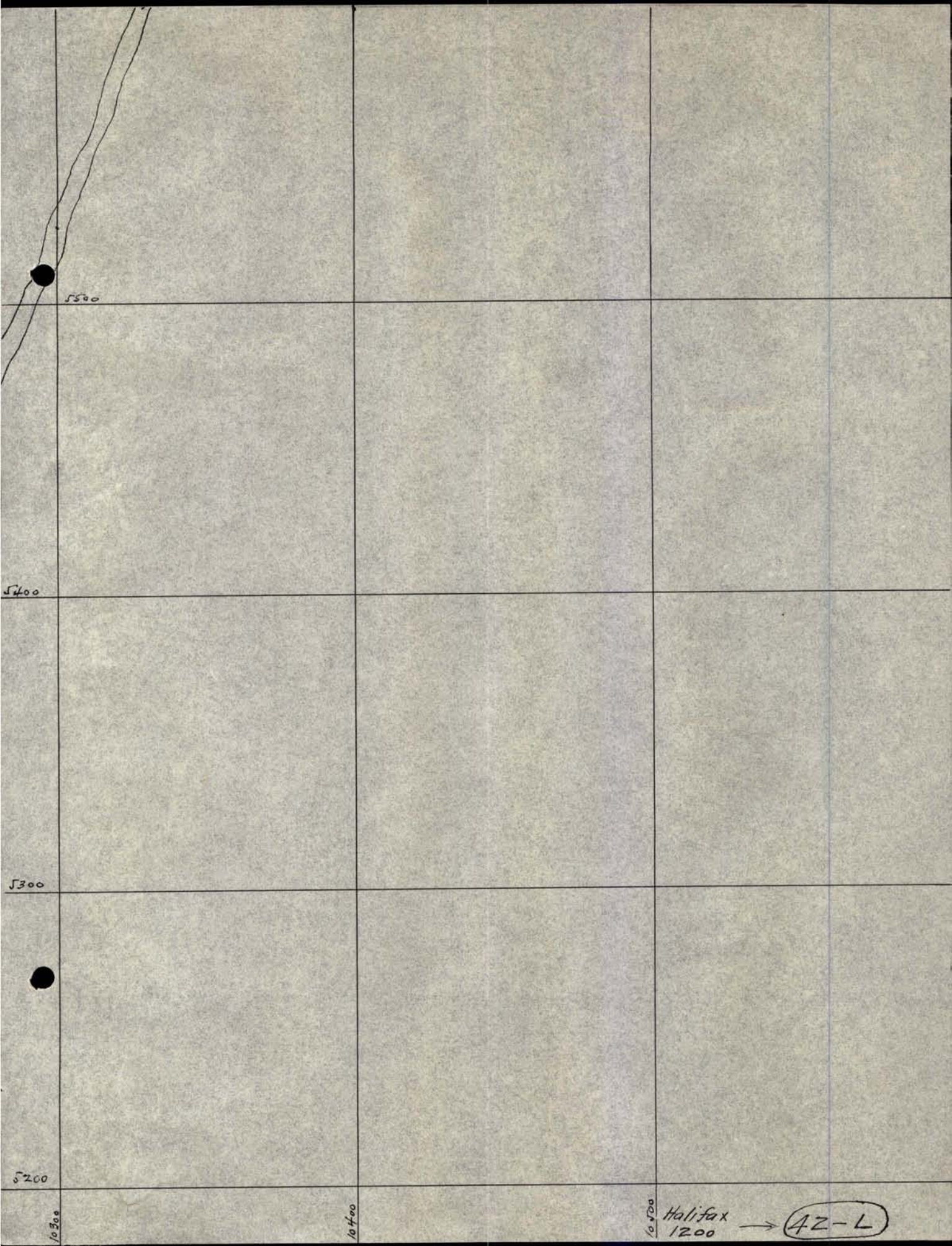
10300

10400

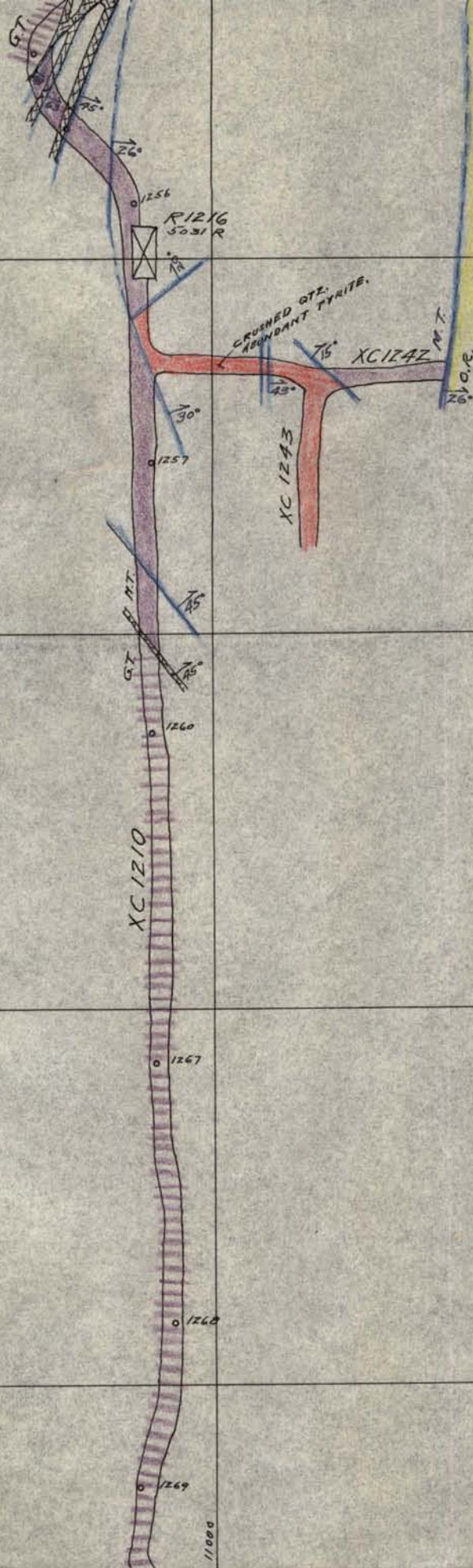
10500 Halifax  
1200 —

42-K



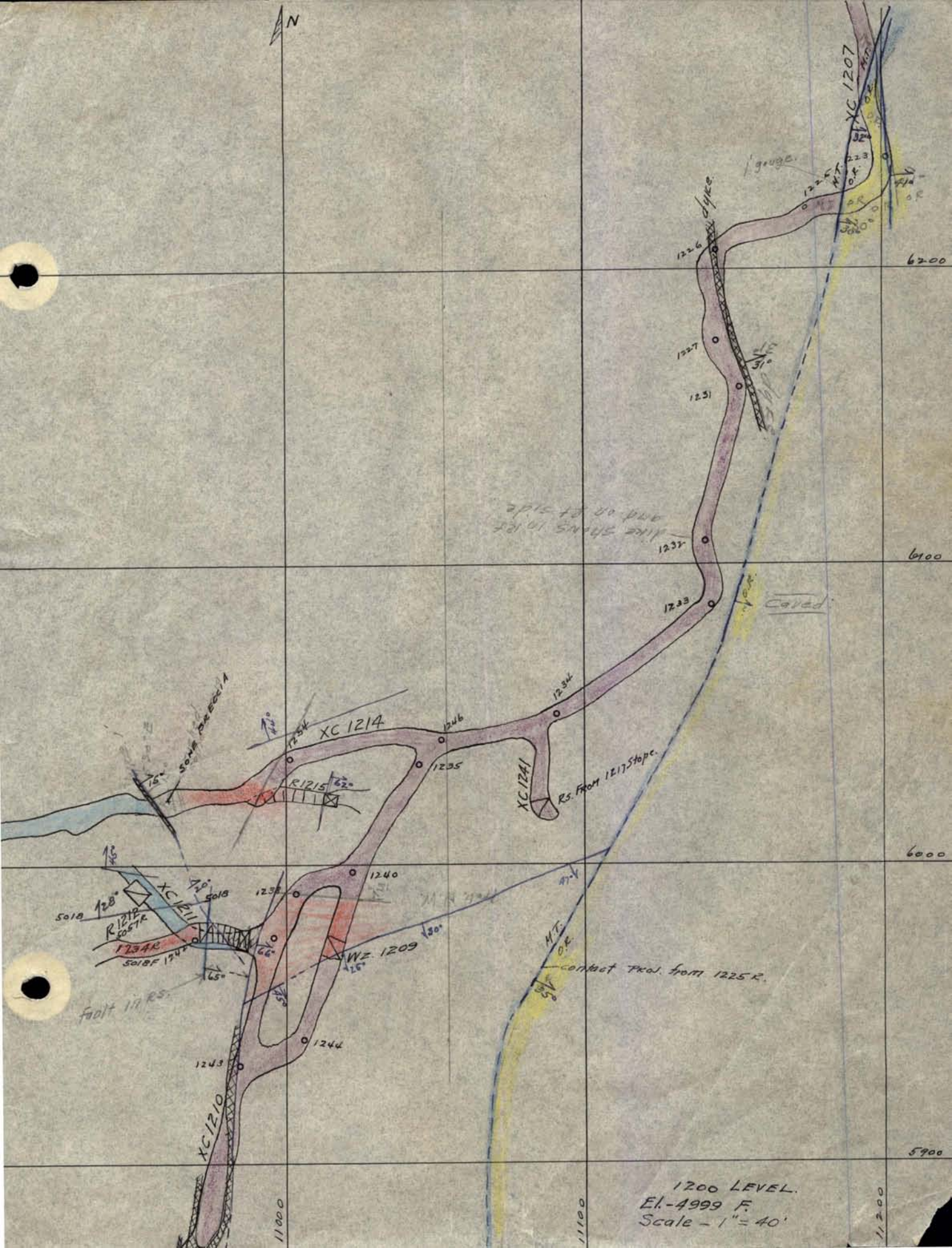






1200 LEVEL  
 El. - 4999 F.  
 Scale 1" = 40'







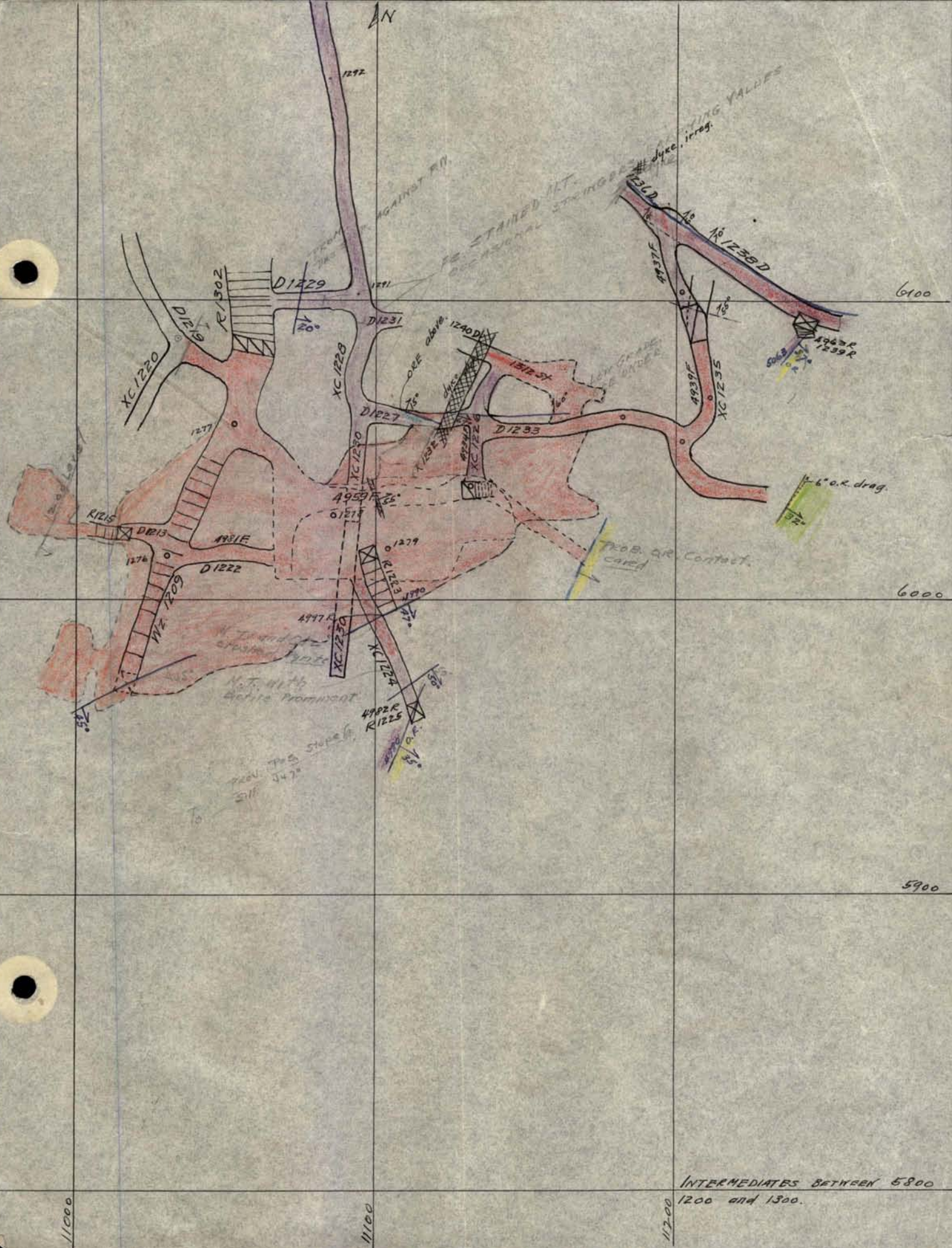




HALIFAX GEOLOGY SHEETS

1300 LEVEL.











# WEST END CONSOLIDATED MINING COMPANY

Tonopah, Nevada, May 7, 1929.

To the Stockholders of the

West End Consolidated Mining Company:

The business affairs of the West End Consolidated Mining Company have been in a chaotic state for several years, and until recently it appeared a hopeless task to relieve it of even a part of its obligations without the loss of all its assets.

The following information will give you a definite idea of the financial and operating history of the company covering the past two and one half years, or since the present Board of Directors assumed charge of your company's affairs.

On September 2, 1926, Mr. F. M. Smith, who as president had directed the company's affairs practically ever since its organization, together with a controlling number of the Board of Directors, resigned and control of the Board came into the hands of the operating staff at Tonopah, where the mine is situated. Mr. Smith's expressed reason for his resignation at this time was that circumstances had arisen in his private affairs which, in his opinion, made it desirable for him to sever his connection with the corporation, as his presence on the Board of Directors and in the offices of President and Treasurer might be regarded as disadvantageous to the corporation itself or its stockholders at large. The Oakland office of the company was immediately closed and all company records moved to Tonopah.

At the time of this change in the directorate the financial affairs of the West End Consolidated Mining Company were in very bad condition, with large debts, two suits for damages in which the company was named as defendant or co-defendant, and with practically no assets which could be realized on in any substantial amount if sold.

Liabilities on September 2, 1926, at the time the new management took control, were as follows:

U. S. Department of Internal Revenue, for unpaid back Federal Income Taxes for years 1916 to 1922, inclusive, without considering accumulated interest at the rate of one per cent per month.....	\$483,140.03
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------

Legal and accounting work in connection with above taxes .....	14,187.73
----------------------------------------------------------------	-----------

State of Nevada, for bullion taxes due to deduction of certain items in computing bullion taxes for years 1920 to 1926 inclusive, afterwards decided by State Supreme Court to be illegal deductions .....	5,920.78
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

Miscellaneous book accounts, covering money borrowed to meet legal and development expense in connection with apex litigation suits in Tonopah .....	55,383.79
------------------------------------------------------------------------------------------------------------------------------------------------------	-----------

A total of .....	\$558,632.33
------------------	--------------

In addition to the above direct liabilities the West End Consolidated Mining Company was involved as defendant or co-defendant in two suits, one in the amount of \$127,476.14 and the other in the amount of \$408,316.00. (The first above referred to has been compromised and withdrawn. The second has been decided in the courts and the company cleared.)



The assets of the company on September 2, 1926, at the time the new management took control, were as follows:

The West End mine, mill and miscellaneous stores in Tonopah.

Large stock interests, in some cases amounting to stock control, in the West End Extension Mining Company, Tonopah Seventy-Six Consolidated Mining Company, Halifax Tonopah Mining Company, Monarch Pittsburgh Mining Company, and Santa Rosa Mining Company, none of which companies were operating or in financial condition to start operations without re-financing; together with small stock interests in other mining and chemical companies, none of which was or is salable for even a very small fraction of its potential value.

Accounts and Notes Receivable amounting to \$153,281.71, most of which was advances to some of the above listed companies, and none of which was collectible. (A resumption of work by the companies involved gives these accounts a probable future value.)

The Mabel mine, near Mina, Nev. This is a small high grade silver-gold-lead property of high potential value, but which was and still is in the development stage. The Mabel mine adjoins the old Garfield property which has a production record of over \$5,000,000 in high grade ore, one car-load from which is reported to have netted \$50,000. During the past five years the Mabel has been operated continuously, but without sufficient capital to conduct an extensive campaign of development. Production during this period amounted to 4062 tons of ore of a gross value of \$410,337.24, an average of \$101.02 per ton. The mine is opened to a depth of 600 feet by vertical shaft, and values persist into the sulphide zone, with noticeable increase in proportionate gold content with depth.

A promissory note, secured by collateral with a sale value of approximately \$20,000. (This collateral is now worth approximately \$30,000).

Sufficient cash for immediate operating needs only.

There was nothing in the entire list of assets which could be disposed of for sufficient cash to pay even a small percentage of the existing debts. To further complicate matters the Collector of Internal Revenue placed a lien against the company's assets to protect Department rights. However, we were permitted to operate and to handle the company business without interference.

All known ore bodies in the mine were practically exhausted. This condition, coupled with the fact that cash for necessary development work was lacking, made the situation a critical one from an operating standpoint. It made it necessary for us to practically discontinue active development, although we have since placed every dollar possible into this work, without marked success to date. In October, 1927, shortage of ore in our own mine and a decrease in custom ore tonnage made it economically impossible to longer operate our milling plant, and it was closed down on the 15th of that month. Since that time we have shipped our ore to the custom plant at Millers, 14 miles from Tonopah.

Mine operations during the last two and one half years, with the exception of our limited development work, have been on a leaser basis, with 25 to 40 men underground, and production has averaged from 500 to 1000 tons of ore per month. This class of operation is not profitable and has no future. The only way in which the West End Consolidated Mining Company can be made a success for its stockholders is to pay off the indebtedness and develop the property. Both the Tonopah mine and the Mabel mine have great potential value, with a large area of unexplored territory. With this idea in mind we have endeavored to reduce the liabilities to a point where it would appear to be an attractive proposition to pay off the debts and start over again, with the following success:

We have effected a compromise with the U. S. Department of Internal Revenue on the \$483,140.03 (plus any accrued interest) due for unpaid back Federal Income Taxes, for \$50,000. We have already made cash payments of \$25,000 against this amount, leaving a balance due of \$25,000, which balance must be paid within the next 12 months in quarterly installments.



We have paid \$3000 in cash against the legal and accounting obligation of \$14,187.73, and have effected a compromise with the creditors in which they agree to accept \$5000 as payment in full, provided this amount is paid to them on or before July 1, 1929.

We have practically wiped out the item of miscellaneous book accounts, amounting to \$55,383.79, by compromise.

In summary: We have had charge of your company's affairs for two and one half years. At the beginning of our administration the company was hopelessly in debt to the extent of \$558,632.33, and entangled in litigation as defendant in suits involving \$535,792.14, with no cash or convertible assets with which to pay off any appreciable amount of this indebtedness. At the present time the company owes about \$36,000, is free of law suits, and all assets practically intact.

As previously stated the company owns valuable undeveloped ground, both in Tonopah and near Mina, and in addition has a long term lease, on advantageous terms, on a large undeveloped portion of the adjoining Jim Butler ground in Tonopah, which appears to have excellent possibilities. In order to pay off the balance of the indebtedness and provide a fund for the development of this unexplored territory it is necessary to reorganize and refinance the company, and the following plan is to be offered for your consideration. We are reasonably assured that if this plan of reorganization is approved, the necessary financing can be obtained.

That a new non-assessable corporation be organized under the laws of the State of Nevada, with an authorized capital of one million shares, par value one dollar; four hundred thousand shares to be issued to West End Consolidated Mining Company, in consideration of the transfer of all its assets to the new company, the new company to assume the payment of all the indebtedness of the old company. This will leave the new company six hundred thousand shares with which to raise the necessary funds to pay the indebtedness of the old company and secure the necessary capital to develop and operate the properties of the new company. The stock sold to be disposed of through a syndicate, although present stockholders will be given preferential subscription rights.

Under this plan when distribution is made by the old company of the four hundred thousand shares held by it in the new company, each stockholder of record of the old company, at the time of the transfer of the assets to the new company, will receive one share in the new company for each five shares held by such stockholder in the old company.

We know of no other feasible plan by which the stockholders of the West End Consolidated can hope to realize upon their holdings.

It is imperative that prompt action be taken to obtain funds with which to pay the debts and start development work in the mines. The old company at present has no cash on hand and its debts must be paid else a total loss will result to stockholders.

Due to the urgency of the conditions confronting the company the Board of Directors has called a meeting of the stockholders to vote upon the foregoing plan outlined, a copy of which notice is enclosed herewith.

We urgently request that if you cannot be present at such meeting, you immediately sign and mail the enclosed proxy.

F. C. NINNIS, President.

H. D. BUDELMAN, Secretary.



Mr. J. W. Chandler, Gen'l. Sup't. -2-

10/26/14.

approximately 80 lbs. to 50 tons. This 143 lbs. is taken to the assay office where it is all crushed to  $1/4$  and finer and then cut to about 12 lbs. This is pulverized to 20-mesh and finer, cut to 6 lbs., dried, cut to an original and a duplicate, and then pulverized to 200-mesh, and divided into control samples.

By giving the first automatic sampler even speed on the whole revolution, we would approximately double the size of the cut from the 2" and finer ore, and consequently the final sample at the crusher bins. This throws twice the work on the Tetrault crusher, but by crushing to  $3/4$ ", instead of  $1/2$ ", it would handle the greater tonnage.

Respectfully yours,

JAC/E

Mill Superintendent.



WEST END CONSOLIDATED MINING COMPANY

OFFICE OF SUPERINTENDENT

TONOPAH, NEVADA October 26, 1914.

SUBJECT: SAMPLING OF CUSTOM ORES.

Mr. J. W. Chandler,  
Gen'l. Sup't., West End Cons. Mng. Co.,  
Tonopah, Nevada.

Dear Sir:

The following description of our sampling plant will, I believe, give you the details that you wish.

The ore is split as it leaves the top of the conveyor by a steel blade into two equal halves. One half goes to a cross conveyor to the opposite end of the bin; the other half falls directly into the bin across the travel of the automatic sampler. This automatic sampler has a 10-inch opening on a 56" diam. circle, which, if revolving at constant speed, would cut out 1 part in 17.6 parts. However, just as the sampler enters the ore stream it passes through at twice its normal speed, thus cutting out about 1 part in 35. This material cut out all goes through a <sup>small ball mill</sup> Tetrault crusher, which reduces the ore to 1/2" or finer. This ore then goes to an automatic sampler having two 6-inch openings on a 38" diam. circle, which cuts out 1/10th as a sample. This is the final sample that is taken to the assay office and the weight figures as follows:

50 tons of 2" and cut by steel divider down to 25 tons;  
25 tons cut by automatic sampler into 1/35 of this weight, or 1430 lbs;  
1430 lbs. crushed to 1/2" and finer, cut by automatic sampler into 1/10, giving 143 lbs.

This is very close to the size of sample we have been getting from 50-ton lots. Previously, on the disputed Jim Butler-West End ore, we left off one arm on the lower sampler, which gave us



## MILL

The total amount of ore treated at the Mill during the year was 38,987 tons. The direct cost was \$3.378, divided as follows:

Labor .....	\$1.191
Power .....	.717
Supplies .....	1.470
	3.378

Depreciation was charged at 23.1c per ton. Other indirect costs amounted to 58.3c.

The cost of marketing and sampling bullion amounted to 28.9c per ton of ore, so that the total milling cost—direct and indirect—plus the cost of marketing bullion, amounted to \$4.481 per ton, or 32.1c per fine ounce.

The net extraction after marketing bullion was 91.24% of the contained value in gold and silver.

The increased cost of both mining and milling is due largely to the reduced tonnage treated. Other factors were an increase in the price of electric power, and the fact that the larger ore bodies having been depleted, ore was mined from narrower and more scattered stopes than heretofore.

## HALIFAX

Operations in the Halifax Mine were carried on at a loss. Ore of the gross value of \$14,583.78 was milled. The cost of mining and development work done was \$31,259.40. The shaft is in need of expensive repairs and the outlook for ore development does not appear favorable enough to justify this expenditure at the present time. It is planned to discontinue Halifax operations in the early part of 1926.

Respectfully submitted,

J. W. SHERWIN,  
General Manager.

Oakland, Calif., December 31st, 1925.



# WEST END CONSOLIDATED MINING COMPANY

## BALANCE SHEET

December 31, 1925

### ASSETS

#### CURRENT—

Cash .....	\$ 7,039.45
Notes Receivable .....	18,000.00
Miscellaneous Accounts Receivable .....	5,101.51
Bullion and Ore in Transit .....	37,547.43
Supplies at Mine .....	23,557.94

Total Current Assets .....	\$91,246.33	\$	91,246.33
Advances to Halifax Tonopah Mining Co. ....			97,457.97
Stocks and Bonds .....			602,486.00
Patented Mining Claims .....			4,119,627.32
Plant and Equipment .....			93,097.17
Capital Stock Discount .....			6,335,306.39
Litigation Expense, W. E. Ext. & Tonopah "76" ..			13,188.22
Prepaid Insurance and Taxes .....			4,899.76

\$11,357,309.16

### LIABILITIES AND CAPITAL

#### CURRENT—

Accounts Payable .....	\$ 37,990.95
Notes Payable .....	5,163.61
Disputed Ore and Purchase Contract .....	9,993.48
Dividends Declared and Payable .....	20,270.00
Outstanding Labor Checks and Taxes .....	14,368.02

Total Current Liabilities .....	\$ 87,786.06	\$	87,786.06
Cash Advanced by W. E. Chemical Co. ....			19,500.00
Capital Stock Authorized, 2,000,000 shares @ \$5 -	\$10,000,000.00		
Unissued, 211,514 shares @ \$5 .....	1,057,570.00		

Outstanding, 1,788,486 shares @ \$5 .....			8,942,430.00
-------------------------------------------	--	--	--------------

Earned Surplus, December 31, 1924 .....	\$ 2,091,928.01
-----------------------------------------	-----------------

Loss—Year 1925 .....	\$ 37,483.00
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Dividend No. 18, Aug. 5, 1925 .....	1,461,901.84	1,499,384.84	592,543.17
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Surplus from Adjustment of Property Values .....			1,715,049.93
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\$11,357,309.16

This balance sheet is taken from the audited report of McLaren, Goode & Co., Certified Public Accountants.

Final assessments have recently been received from the Treasury Department of additional income, excess profits and war profit taxes for the years to and including 1918, in an amount exceeding \$150,000.00, and we are advised that part of this is subject to review, and that there may be additional assessments applying to subsequent years. One of our problems is to meet these obligations.



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Development work was subdivided as follows:

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Raising .....	2423 "
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Winzing .....	158 "
Stations and extra openings .....	316 cu. yds.

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## MABEL MINE

Operations were continued in the Mabel Mine, and an operating profit of \$31,352.35 was realized after deducting development work, taxes and depreciation, etc. The ore extracted during the year amounted to 927 tons with an average value of \$116.75 per ton. Development work was performed to the amount of 1577 feet. No shaft sinking was done on the property during the year.

It is desired to correct a typographical error which appeared in the last Annual Report. The total depth of the Mabel shaft should have read 466.5 feet.



# NINETEENTH ANNUAL REPORT OF THE WEST END CONSOLIDATED MINING COMPANY

1925

## GENERAL MANAGER'S REPORT

*Mr. F. M. Smith, President,  
and the Board of Directors,  
West End Consolidated Mining Company,  
Oakland, California.*

Gentlemen:

The following is the report of the Company's operations for the fiscal and calendar year 1925, exclusive of Federal taxes and administration expenses:

### GENERAL OPERATING STATEMENT

	Total	Per Ton
Dry tons ore milled from West End Mine.....	28,440	
Containing fine ounces gold.....	4,674.63	
Containing fine ounces silver.....	422,071.62	
Total fine ounces.....	426,746.25	
Average value per fine ounce.....	\$ .91	
Gross Value West End Ore milled.....	\$387,685.37	\$13.63
Milling costs—direct and indirect .....	\$111,171.88	3.91
Tailing losses.....	25,731.24	.91
Marketing Bullion .....	8,407.20	.29
Mining—direct and indirect.....	169,413.90	5.96
Current development .....	26,059.24	.91
Ore hauling .....	5,596.78	.20
Total deductions .....	\$46,380.24	\$12.18
Operating profit.....	\$ 41,305.13	\$ 1.45
Miscellaneous earnings and receipts.....	9,450.57	
Total profits .....	\$ 50,755.70	
Expense of development adjoining territory under lease, etc., less value of ore shipped therefrom .....	55,548.47	
Operating loss .....	\$ 4,792.77	
Depreciation .....	18,000.00	
Total loss Tonopah operations.....	\$ 22,792.77	
Profits from operation of Mabel Mine.....	\$ 31,919.72	
Depreciation .....	567.37	
Net Profit .....	\$ 31,352.35	



# WEST END CONSOLIDATED MINING COMPANY

## BALANCE SHEET

December 31, 1925

### ASSETS

#### CURRENT—

Cash .....	\$ 7,039.45	
Notes Receivable .....	18,000.00	
Miscellaneous Accounts Receivable .....	5,101.51	
Bullion and Ore in Transit .....	37,547.43	
Supplies at Mine .....	23,557.94	
Total Current Assets .....	\$91,246.33	\$ 91,246.33
Advances to Halifax Tonopah Mining Co. ....	97,457.97	
Stocks and Bonds .....	602,486.00	
Patented Mining Claims .....	4,119,627.32	
Plant and Equipment .....	93,097.17	
Capital Stock Discount .....	6,335,306.39	
Litigation Expense, W. E. Ext. & Tonopah "76" ..	13,188.22	
Prepaid Insurance and Taxes .....	4,899.76	
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## MILL

The total amount of ore treated at the Mill during the year was 38,987 tons. The direct cost was \$3,378, divided as follows:

Labor .....	\$1.191
Power .....	.717
Supplies .....	1.470

Depreciation was charged at 23.1c per ton. Other indirect costs amounted to 58.3c.

The cost of marketing and sampling bullion amounted to 28.9c per ton of ore, so that the total milling cost—direct and indirect—plus the cost of marketing bullion, amounted to \$4.481 per ton, or 32.1c per fine ounce.

The net extraction after marketing bullion was 91.24% of the contained value in gold and silver.

The increased cost of both mining and milling is due largely to the reduced tonnage treated. Other factors were an increase in the price of electric power, and the fact that the larger ore bodies having been depleted, ore was mined from narrower and more scattered stopes than heretofore.

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Respectfully submitted,

J. W. SHERWIN,  
General Manager.

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General Manager.

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# WEST END PROGRESS

SEPT 1926

(131)

Neal, Stratford & Kerr, S. F. No. 19837

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE	460R-8	(130) 8	1 3 3 <sup>0</sup>				1 3	11
	460R-9	0		3 18	3 9	3 17	9 44	(132) 44
✓	515R-3	(130) 26	1 3 3 <sup>0</sup>				1 3	29
✓	580Dr-2	(130) 25	3 11 3 <sup>2</sup>	1 23	1 4		5 38	(132) 63
	580R-8	0			1 4	3 11	4 15	(132) 15
0	617Dr.	(130) 71	1 2 2 <sup>0</sup>	3 8	3 12	3 12	10 34	(132) 105
76	902Dr.	(130) 59		2 11	2 8	3 13	7 32	91
WEEEx	8011R	(101) 8	2 7 3 <sup>0</sup>				2 7	15
	903Dr	(130) 99	3 11 3 <sup>2</sup>	1 4	1 6	4 6	9 27	(132) 126
	904R	(130) 102	4 11 2 <sup>8</sup>				4 11	113
		398	15 <sup>✓</sup> 3 <sup>20</sup>	10 <sup>✓</sup> 64 <sup>✓</sup>	11 <sup>✓</sup> 43 <sup>✓</sup>	16 <sup>✓</sup> 59 <sup>✓</sup>	52 <sup>✓</sup> 214 <sup>✓</sup>	612



(5)

8/28/23.

WEST END CONSOLIDATED MINING COMPANY

Sulphur at Sulphur, Nevada.

C.S. Haley and Crosby

CRUDE - 99% PURE

Estimated cost (C.S.N.) on basis 5000 tons S  
yearly basis = 11.50 per ton. } At Sulphur, Nev.  
Frt to coast = 7.00 " " }

19.00 - F.O.B. - Calif.

Estimated cost in La. & Texas - 9.00 per ton.  
Frt. to Calif. 11.00  
\$20.00 F.O.B. Calif.

100% - F.I. of S.

C.S.N. - Est Cost at Sulphur 15.75  
La. & Tex. " " " 20.00

Finances.

Property owned by Nev. Sul. Co.  
Optioned to Crosby for 10 years, option to buy at  
end of 10 years for \$185,000. First payment to  
made July 1925, on royalty basis, <sup>2 1/2¢ per ton</sup> guarantee  
at least \$10,000 per year. If not closed at end of  
10 years can be extended on same basis.

Rent, 150 tons re, furniture 30 tons S. daily \$150,000,  
25,000 tonk capital required, 25,000 electrical eqing.  
Total finances - \$500,000 to start. Need 5000  
at once to try out cooling idea for making  
Ore.

Deepl. 150,000 ton 13 to 20% } 40,000 tons  
mine 80,000 " 30+ }



Crude S. at present made by steam heating as  
in a centrifugal machine, best extraction obtained  
being 13% + in Tarlings. New idea is to  
saporize and condense in tanks by cold air  
jet, in which case extraction will be much  
better. Success of venture depends on feasibility  
of new process invented (not yet patented) by  
Crawley.

Option on property in Crawley name. Original  
option a lease in joint name of Crawley and  
Red River Lumber Co. Latter has drawn out  
leaving Crawley sole holder of option a lease.  
Crawley willing to turn on  $\frac{1}{16}$  interest of  
\$5000 which needed at once for experimental  
work.



Neal, Stratford & Kerr, S. F. No. 19337

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE	460R-8	(129) 0			2 5 2 <sup>1</sup> / <sub>2</sub>	1 3 3 <sup>0</sup>	3 8	(131) 8
	476XC-1	(129) 4	2 8 4 <sup>1</sup> / <sub>2</sub>				2 8	12
	515Dr-1	(129) 88	2 11 5 <sup>1</sup> / <sub>2</sub>				2 11	99
	515R-3	0		5 18 3 <sup>1</sup> / <sub>2</sub>	1 4 4 <sup>0</sup>	1 4 4 <sup>0</sup>	7 26	(131) 26
	580XC-5	(129) 22	3 11 3 <sup>1</sup> / <sub>2</sub>				3 11	33
	580Dr-2	0		2 1/4 7 3 <sup>1</sup> / <sub>2</sub>	3 9 3 <sup>0</sup>	3 9 3 <sup>1</sup> / <sub>2</sub>	8 1/4 25	(131) 25
0	539HWRC	(129) 4	2 9 4 <sup>1</sup> / <sub>2</sub>				2 9	13
	539HWRD	0		1 1/2 4 3 <sup>1</sup> / <sub>2</sub>			1 1/2 4	4
	617Dr.	(129) 52	1 3 3 <sup>0</sup>	2 7 3 <sup>1</sup> / <sub>2</sub>	2 7	1 2 2 <sup>1</sup> / <sub>2</sub>	6 19	(131) 71
DISTRIBUTION								
			Drifts		123 ft			
			Crosscuts		19 ✓			
			Raises		107			
			Total		249 ✓			
76	902Dr	(129) 42				2 17	2 17	(131) 59
WEX	903Dr	(129) 48	3 12 4 <sup>1</sup> / <sub>2</sub>	4 14	3 12	3 13	13 51	(131) 99
	904R	(129) 42	6 11 1 <sup>1</sup> / <sub>2</sub>	8 16	8 16	8 17	20 60	(131) 102
			19 302	22 1/2 65	19 53	19 65	78 1/2 249	551



# WEST END PROGRESS

JULY 1926

Neal, Stratford & Kerr, S. F. No. 19837

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	476XC-1	0		1 4 <sup>4</sup> / <sub>8</sub>			1 4 <sup>4</sup> / <sub>8</sub>	(130) 4
WE	476XC-1	0	1 4 <sup>4</sup> / <sub>8</sub>				1 4 <sup>4</sup> / <sub>8</sub>	4
WE.	515 Dr. 1	(127) 47	1 3 <sup>3</sup> / <sub>8</sub>	3 19 <sup>6</sup> / <sub>8</sub>	3 12 <sup>4</sup> / <sub>8</sub>	3 7 <sup>2</sup> / <sub>8</sub>	10 41 <sup>4</sup> / <sub>8</sub>	(130) 88
✓	515R 2	(128) 46	3 13 <sup>4</sup> / <sub>8</sub>				3 13 <sup>4</sup> / <sub>8</sub>	59
✓	580 xc- 5	0			3 11 <sup>3</sup> / <sub>8</sub>	3 11 <sup>3</sup> / <sub>8</sub>	6 22 <sup>3</sup> / <sub>8</sub>	(130) 22
0	539HWRC	0				1 4 <sup>4</sup> / <sub>8</sub>	1 4 <sup>4</sup> / <sub>8</sub>	(130) 4
0	539HWRC	0				1 4 <sup>4</sup> / <sub>8</sub>	1 4 <sup>4</sup> / <sub>8</sub>	4
0	539HWRA	0			2 8 <sup>4</sup> / <sub>8</sub>		2 8 <sup>4</sup> / <sub>8</sub>	8
0	617DrA.	(129) 24	2 5 <sup>2</sup> / <sub>8</sub>	4 10 <sup>2</sup> / <sub>8</sub>	3 10 <sup>3</sup> / <sub>8</sub>	1 3 <sup>3</sup> / <sub>8</sub>	10 28 <sup>2</sup> / <sub>8</sub>	(130) 52
76	902Dr	(129) 36	2 6 <sup>3</sup> / <sub>8</sub>				2 6 <sup>3</sup> / <sub>8</sub>	(130) 42
	903Dr.	(128) 16		4 13 <sup>3</sup> / <sub>8</sub>	2 9 <sup>4</sup> / <sub>8</sub>	5 10 <sup>2</sup> / <sub>8</sub>	11 32 <sup>2</sup> / <sub>8</sub>	(130) 48
WEEEX	904Rs.	0	3 9 <sup>3</sup> / <sub>8</sub>	4 9 <sup>2</sup> / <sub>8</sub>	3 10 <sup>3</sup> / <sub>8</sub>	3 14 <sup>4</sup> / <sub>8</sub>	13 42 <sup>3</sup> / <sub>8</sub>	(130) 42
		251	12 40 <sup>3</sup> / <sub>8</sub>	20 <sup>3</sup> / <sub>8</sub> 68 <sup>3</sup> / <sub>8</sub>	18 66 <sup>3</sup> / <sub>8</sub>	20 63 <sup>6</sup> / <sub>8</sub>	70 <sup>3</sup> / <sub>8</sub> 237 <sup>3</sup> / <sub>8</sub>	488



# WEST END PROGRESS

JUNE 1926

Neal, Stratford & Kerr, S. F. No. 19837

No. Working	Total Forward	PROGRESS					Total	Total Length
		1st Period	2nd Period	3rd Period	4th Period			
460 Dr 10	(127) 44	3 12 4 <sup>2</sup>	3 10 3 <sup>2</sup>	4 16 4 <sup>2</sup>		10 38 3 <sup>2</sup>		82
460 Dr 2	(126) 142	—	—	1 4 4 <sup>2</sup>		1 4 4 <sup>2</sup>		146
476 Dr 1	(127) 135	4 14 3 <sup>2</sup>	3 11 3 <sup>2</sup>	4 14 3 <sup>2</sup>		11 39 3 <sup>2</sup>	(134)	74
536 R-D	—	—	—	2 1/4 6 2 <sup>4</sup>		2 1/4 6 2 <sup>4</sup>		6
515 R-2	0	—	2 8 4 <sup>2</sup>	8 1/2 20 2 <sup>4</sup>	7 1/4 18 2 <sup>5</sup>	17 3/4 46 2 <sup>6</sup>	(129)	46

## Distribution

Drifts 132 ft  
 Crosscuts 16  
 Raises 79  
 Total 227  
 Ex Ex 18 Yd.

76	8040 Dr A	(121) 18	3 9 3 <sup>2</sup>	3 10 3 <sup>2</sup>	—	6 19 3 <sup>2</sup>	(135)	37
76	8040 xc-A	0	(1/2) 2 Yd	—	2 6 3 <sup>2</sup>	3 10 3 <sup>2</sup>		10
76	8040 xc-B	0	(1/2) 2 Yd	—	2 6 3 <sup>2</sup>	2 6 3 <sup>2</sup>		6

76	Change to 10-1?	0	1 4 4 <sup>2</sup>			1 4 4 <sup>2</sup>		4
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WEEK	605 R 3	(127) 129	7 17 2 <sup>4</sup>	4 10 2 <sup>5</sup>	—	11 27 2 <sup>5</sup>		156
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76	902 D 76	(107) 24	—	—	3 5 12	3 7 2 <sup>2</sup>	6 12 2 <sup>2</sup>	(129) 36
WEEK	903 D hex	0	—	—	4 16 4 <sup>2</sup>	—	4 16 4 <sup>2</sup>	16
WEEK	903 Dr Slab					(3) 12 Yd	(3) 12 Yd	
WEEK	904 R					(1) 2 Yd	(1) 2 Yd	
		492	19 2 2 <sup>4</sup>	15 3 3 <sup>2</sup>	29 3/4 3 <sup>2</sup>	11 1/4 2 5 <sup>2</sup>	75 3 3 <sup>2</sup>	719
			56	47	93	29	227	



# WEST END PROGRESS

MAY-1926.

Neal, Stratford & Kerr, S. F. No. 19837

127

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
	476 Dr-1	(126) 106	1 3 30	2 6 30	3 10	3 10	29	(128) 135
	460 Dr-10	126 29				4 15	15	(128) 44
	515 Dr-1	(126) 44	1 3 30				3	(129) 47
	515 XC-1	0	2 10 50				10	10
	515 R-1	0	2 7 35	3 12 40			19	19
	549 R-K	0	2 7 35	3 9 30			16	16
Distribution								
Drifts			84		A.			
Crosscuts			33		✓			
Raises			68		✓			
Winzes			33		✓			
Total			218		✓			
WEE	8040 WZ	(126) 30	4 8 20	3 3 10			11	(134) 41
✓	8040 Dr-A	0			2 6	4 12	18	(128) 18
✓	920 WZ-1	14	2 7 35	5 14 20			22	36
✓	920 XC-1	5			4		4	9
✓	920 Dr-1	0				3 11	11	11
✓	950 XC-1	0		2 8 40			8	8
✓	950 Dr-1	0				2 8	8	8
✓	1209 FW XC-1				4		4	4
✓	1209 FW XC-1				3 7		7	7
WEX	605 R 3	(116) 96			2 20	5 13	33	(128) 129
			14 32	18 34 20	18 30	21 30		
			45	53	54	69	218	



# WEST END PROGRESS

APRIL-1926

Neal, Stratford & Kerr, S. F. No. 19837

			PROGRESS					Total	
No. Working			1st Period	2nd Period	3rd Period	4th Period	Total	Length	
Total Forward									
W.E.	460 Dr. 2	(92) 99	8 10 3 <sup>3</sup>	2 13 6 <sup>5</sup>	3 11 3 <sup>2</sup>	2 9 4 <sup>5</sup>	10 43	(128) 142	
✓	460 Dr. 10	(125) 16			1 4 4 <sup>0</sup>	2 9 4 <sup>5</sup>	3 13	(127) 29	
✓	476 Dr. 1	(97) 100				2 6 3 <sup>0</sup>	2 6	(127) 106	
	515 Dr. 1	0	1 3 3 <sup>0</sup>	4 13 3 <sup>2</sup>	5 22 4 <sup>4</sup>	5 6 1 <sup>2</sup>	15 44	(127) 44	
✓	981 XC	(125) 236	3 12 4 <sup>0</sup>	4 16 4 <sup>0</sup>	4 17 4 <sup>2</sup>	—	" 45	281	
M=N	427 R-E	(125) 23	1 1/2 4 2 <sup>2</sup>				1 1/2 4	27	
Ohio	455 XC-TX	(205) 32	3 10 3 <sup>3</sup>				3 10	42	
✓	456 XC-TX	0	2 6 3 <sup>0</sup>				2 6	6	
	8040 Wz Sta.		(1) 3 Yd				(1) 3 Yd		
'76'	8039 Rs	(125) 8	2 5 2 <sup>5</sup>				2 5	13	
	8040 Wz	(125) 16			6 8 1 <sup>3</sup>	4 6 1 <sup>2</sup>	10 14	(127) 30	
	920 XC-1	(125) 31	3 12 4 <sup>0</sup>	2 7 3 <sup>2</sup>			5 19	50	
	920 XC-2	0	2 10 5 <sup>0</sup>	5 24 4 <sup>0</sup>	2 9 4 <sup>2</sup>		9 43	43	
	920 XC-3	0			(1) 3 Yd		(1) 3 Yd		
	920 XC-3	0			1 5 5 <sup>0</sup>		1 5		
	920 Wz-1					4 14 3 <sup>2</sup>	4 14	14	
Distribution									
Dri fts			106 ft.						
Crosscuts			128 ✓						
Raises			9 ✓						
Winzes			28 ✓						
Total			271						
Ex Ex			6 Yd						
561			20 1/2 3 5 <sup>1</sup>	17 4 2 <sup>2</sup>	22 3 4 <sup>5</sup>	19 2 2 <sup>0</sup>	78 1/2 3 5 <sup>5</sup>	271	



# WEST END PROGRESS

MARCH 1926

Neal, Stratford & Kerr, S. F. No. 19837

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE	981XC	159	19	26	21	11	77	236
✓	460Dr-10	0			10	6	16	16
NIEN	427xc A.	198	21	28	13	7	69	267
	427 R.E	0			6	17	23	23
OW10	617Dr	0	15	9			24	24
✓	617DrSbb		10Yd				10Yd	
	616XC	31		3			3	34
✓	435TX-XC	0		10	8	14	32	32
76	8024 Dr	296	20	8			28	324
✓	8038XC	0		7	4		11	11
✓	8039R	0				8	8	8
✓	8040Wz	0			9	7	16	16
✓	920XC-1	0				31	31	31
✓	920XC-2	0				3Yd		

## DISTRIBUTION.

Drifts	68	#
Crosscuts	31	✓
Raises	16	✓
Winzes	223	✓
Total.	338	✓

684	20	375	28	325	22	322	32	306	102	328	1022
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# WEST END PROGRESS

FEB. 1926

124

Neal, Stratford & Kerr, S. F. No. 1937

Neal, Stratford & Kerr, S. F. No. 19337

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE	981 XC	123 49	7 31 44	8 32 40	8 27 34	5 20 40	28 110 377	125 159
M <sup>120</sup> N	427 XC-A	123 158	6 20 32	5 17 34		1 3 30	12 40 323	125 198
✓	427 R.D	0		3 12 40	6 14 23	2 5 25	11 31 212	31
Ohio	616 XC	0	4 13 30	4 13 30	2 5 25	1 5 30	11 36 327	36
	616 xc Sbb				2 8 Yd	2 7 Yd	12 15 Yd	
	617 Dr.	0						
76	8024 Dr.	123 246	7 21 30	5 17 34	1 3 30	3 9 30	16 50 312	125 296
	8024 Dr Sbb			3 9 Yd	7 32 Yd	2 7 Yd	12 48 Yd	
DISTRIBUTION.								
DRIFTS			50 ft.					
CROSSCUTS			186 ✓					
RAISES			31 ✓					
Total -			267					
		453	24 34 4	25 36 4	17 28 2	12 35 0	74 342	720
			85	91	49	42	267	



## WEST END PROGRESS

JAN. 1926

Neal, Stratford &amp; Kerr, S. F. No. 19337

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
W.E	549XC-A	(122) 18	4 12 3 <sup>2</sup>	7 6 0 <sup>2</sup>	4 13 3 <sup>2</sup>	1 8 9 <sup>2</sup>	16 39 2 <sup>44</sup>	57
✓	590R	0	2 8 4 <sup>2</sup>	4 20 5 <sup>2</sup>	4 16 4 <sup>2</sup>	-	10 44 4 <sup>40</sup>	44
✓	981XCS/bb			① 3Yd			① 3Yd	
✓	981XC	0	-	-	6 24 4 <sup>2</sup>	7 25 3 <sup>2</sup>	13 49 3 <sup>27</sup>	124 49
M <sup>o</sup> N	427XC-A	(124) 48	-	-	-	3 10 3 <sup>2</sup>	3 10 3 <sup>23</sup>	124 58
✓	427R-C	0	4 13 3 <sup>2</sup>	5 7 1 <sup>4</sup>	-	-	9 20 2 <sup>25</sup>	20
0	615XC	(122) 82	4 14 3 <sup>2</sup>	3 14 3 <sup>2</sup>			7 28 4 <sup>00</sup>	110
0	830 Dr2	(122) 44	3 9 3 <sup>2</sup>				3 9 3 <sup>00</sup>	53
76	8024 Drift.	(122) 202	2 7 3 <sup>2</sup>	3 6 2 <sup>0</sup>	4 16 4 <sup>2</sup>	5 15 3 <sup>2</sup>	14 44 3 <sup>14</sup>	124 246
- DISTRIBUTION -								
Drifts.			53 ft.					
Crosscuts			126		✓			
Raises.			64		✓			
Total.			243		✓			
494			19 33 <sup>1</sup>	22 24 <sup>1</sup>	18 38 <sup>3</sup>	16 36 <sup>3</sup>	75 32 <sup>4</sup>	739
			63 ✓	53 ✓	69 ✓	58 ✓	243 ✓	



# WEST END PROGRESS

DEC. 1925

Neal, Stratford & Kerr, S. F. No. 1937

	No. Working	Total Forward	PROGRESS					Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period			
WE									
	537 R L (121) 14		1 4 4 <sup>2</sup>	1 2 2 <sup>0</sup>	3 9	4 9	1 6	20	
	549 XC-A 0						7 18	(123) 18	
Mac N.	427 R. B (121) 4		6 26 4 <sup>2</sup>				6 26	30	
0									
	615 XC (121) 25		4 17 4 <sup>2</sup>	4 15 3 <sup>2</sup>	4 16	2 9	14 57	(123) 82	
	704 R. 3 (121) 21		4 16 4 <sup>2</sup>	3 15 5 <sup>0</sup>			7 31	52	
	830 Dr. 2. (121) 17		2 7 3 <sup>5</sup>	1 3 3 <sup>2</sup>	3 10	2 7	8 27	(123) 44	
	830 Dr. 2 Sub		0 3 Yd.				3 Yd.		
76	8024 Dr (121) 153		2 8 4 <sup>2</sup>	4 15 3 <sup>2</sup>	7 26		13 49	(123) 202	
	8024 Dr. Sub.		0 3 Yd.				0 3 Yd.		
DISTRIBUTION									
DRIFTS - - - -					76	H.			
RAISES - - - -					63	✓			
CROSSCUTS - - - -					75	✓			
					214	✓			
			19 4 <sup>2</sup>	13 3 <sup>25</sup>	17	8	57 ✓	214	448 ✓
	234		78	50	61	25			



# WEST END PROGRESS

Nov 1925 (121)

Neal, Stratford & Kerr, S. F. No. 19887

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
W.E	537 RL 980 R	(120) 67	4 10 <sup>2 5</sup>	3 14 <sup>4 2</sup>			3 14 <sup>4 2</sup> 4 10 <sup>2 5</sup>	(122) 14 <sup>2</sup> 77 <sup>2</sup>
M <sup>50</sup> N.	427 XCA 427 RB	(120) 95	2 6 <sup>3 2</sup>	6 18 <sup>3 2</sup>	6 23 <sup>3 2</sup>	2 6 <sup>3 2</sup> 1 4 <sup>4 2</sup>	16 53 <sup>3 2</sup> 4 <sup>4 2</sup>	(123) 748 <sup>2</sup> (121) 4 <sup>2</sup>
0	615 XC				3 13 <sup>4 2</sup>	3 12 <sup>4 2</sup>	6 25 <sup>4 2</sup>	(121) 25 <sup>2</sup>
✓	704 R.3				2 1/2 13 <sup>5 2</sup>	3 8 <sup>2 2</sup>	5 1/2 21 <sup>3 2</sup>	(121) 21 <sup>2</sup>
✓	8037 R.	(120) 26		1 2 <sup>2 2</sup>			1 2 <sup>2 2</sup>	28 <sup>2</sup>
✓	830 Dr. 1	(120) 34	5 23 <sup>4 2</sup>	7 21 <sup>3 2</sup>	4 12 <sup>3 2</sup>		16 56 <sup>3 2</sup>	90 <sup>2</sup>
✓	830 Dr. 2	(119) 11				1 6 <sup>6 2</sup>	6 <sup>6 2</sup>	(121) 17 <sup>2</sup>
76	8024 Dr 8024 Dr. Sub	(115) 136			3 10 <sup>3 2</sup>	2 7 <sup>3 2</sup> ① 3Yd	5 17 <sup>3 2</sup> ① 3Yd	(121) 153 <sup>2</sup>
W.E. Ex	605 RAA ✓ 605 RAA Sub	(120) 88	3 12 <sup>4 2</sup>	1 4 <sup>4 2</sup>	4 18 <sup>4 2</sup> ② 6Yd	8 10 <sup>3 2</sup>	11 44 <sup>4 2</sup> ② 6Yd	132 <sup>2</sup>
DISTRIBUTION								
DRIFTS				79 ft.				
RAISES				95 ✓				
CROSSCUTS				78 ✓				
TOTAL				252 ✓				
EX. EX				9 Yd.				
✓			14 3 <sup>6 2</sup>	18 3 <sup>2 2</sup>	22 1/2 3 <sup>9 2</sup>	15 3 <sup>5 2</sup>	69 1/2 3 <sup>6 2</sup>	
457			51	59	89	53	252	769



# WEST END PROGRESS

OCT. 1925

(120)

Neal, Stratford & Kerr, S. F. No. 19887

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE 589R	(117) 37	3 7/8 11 3 1/2					3 7/8 11 3 1/2	48
✓ 589R-Slab		(3) 9Yd					(3) 9Yd	
✓ 682Dr-3	(117) 131	3 11 3 1/2 4 18 4 1/2 6 19 3 1/2 3 1/2 13 3 1/2					16 1/2 6 1 4 1/2	192
✓ 682R-13	0	2 6 3 1/2 4 14 3 1/2					6 20 3 1/2	20
✓ 685XC-B	0	1 3 3 1/2					1 3 3 1/2	3
✓ 685RE	0	1 5 5 1/2 3 1/2 16 4 1/2					4 1/2 2 1 4 1/2	21
✓ 980R	(119) 6	3 15 5 1/2 4 17 4 1/2 3 19 3 1/2 4 19 4 1/2					14 6 1 4 1/2	(121) 67
MEN 427KA	(119) 3	3 13 4 1/2					3 13 4 1/2	16
✓ 427Dr-A	(119) 40	- 1 3 3 1/2 2 8 4 1/2					3 11 3 1/2	51
✓ 427AC-A	(119) 78	2 8 4 1/2 3 9 3 1/2					5 17 3 1/2	(121) 95
0 704XC-1	(119) 115	3 16 5 1/2 4 20 5 1/2 4 19 4 1/2 3 13 4 1/2					14 6 8 4 1/2	183
0 8037R	(119) 6	1 5 5 1/2 4 10 2 1/2 2 5 2 1/2					7 20 2 1/2	(121) 26
805XC-14	(119) 50	1 3 3 1/2					1 3 3 1/2	53
830 Dr.1	0	1 3 3 1/2 3 13 4 1/2 5 18 3 1/2					9 34 3 1/2	(121) 34
76 8036R	(119) 69	1 6 6 1/2 -					1 6 6 1/2	75
WEX 605R4A	(119) 42	2 8 4 1/2 3 11 3 1/2 3 12 4 1/2 3 15 5 1/2 11 4 6 4 1/2						88
DISTRIBUTION								
DRIFTS				106 ft				
RAISES				198 ✓				
CROSSCUTS				91 ✓				
EX. EX				395 ✓				
				9 Yds.				
			23 3/8 4 1/2	29 1/2 3 1/2	25 3 1/2	21 1/2 4 0 1/4	99 3/8 3 1/2	
577			99 1/2	11 5	94	87	395	972



Sept. 1925

Neal, Stratford & Kerr, S. F. No. 19337

No. Working		Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE	589R	0	7 3 <sup>2</sup>	4 12 3 <sup>2</sup>	3 6 2 <sup>0</sup>	2 12 6 <sup>2</sup>	11 37 3 <sup>2</sup>	(120) 37
✓	685XC-A	0	11			3 10 3 <sup>2</sup>	3 10 3 <sup>2</sup>	10
✓	682Dr 3	(118) 89	3 11 3 <sup>2</sup>	4 16 4 <sup>0</sup>	3 10 3 <sup>2</sup>	1 5 5 <sup>2</sup>	11 42 3 <sup>2</sup>	(120) 131
✓	682Dr 4	(118) 65	3 11 3 <sup>2</sup>	4 16 4 <sup>0</sup>	3 14 4 <sup>2</sup>	4 20 5 <sup>2</sup>	14 61 4 <sup>2</sup>	126
✓	682R-12	0			1 3 3 <sup>2</sup>		1 3 3 <sup>2</sup>	3
✓	682Dr 35/26					(2) 6Yd.	(2) 6Yd.	
✓	980R	0				2 6 3 <sup>2</sup>	2 6 3 <sup>2</sup>	(120) 6
M=N	427XC A	42 0	-	7 31 4 <sup>2</sup>	7 26 3 <sup>2</sup>	5 21 4 <sup>2</sup>	19 78 4 <sup>2</sup>	78
✓	427 R-A	0				1 3 3 <sup>2</sup>	1 3 3 <sup>2</sup>	(120) 3
Ohio	453TX R <sub>3</sub>	(118) 7	3 9 3 <sup>2</sup>	3 7 2 <sup>2</sup>	4 9 2 <sup>2</sup>	2 5 2 <sup>2</sup>	12 30 2 <sup>2</sup>	37
✓	454TX R <sub>3</sub>	0	-	2 7 3 <sup>2</sup>	3 18 6 <sup>2</sup>	1 3 3 <sup>2</sup>	6 28 4 <sup>2</sup>	28
	704XC-1	(118) 106				2 9 4 <sup>2</sup>	2 9 4 <sup>2</sup>	(120) 115
✓	704 R-1	(118) 27	5 11 3 <sup>2</sup>	4 17 4 <sup>2</sup>	8 10 3 <sup>2</sup>		10 38 3 <sup>2</sup>	65
✓	704XC-2	(118) 87	2 5 2 <sup>2</sup>	3 17 4 <sup>2</sup>			2 5 2 <sup>2</sup>	92
✓	704 R 2	0	2 7 7	3 14 4 <sup>2</sup>	3 12 4 <sup>2</sup>		8 33 4 <sup>2</sup>	33
✓	806XC	(118) 30	2 8 4 <sup>2</sup>	1 4 4 <sup>0</sup>			3 12 4 <sup>0</sup>	42
✓	805XC-14	(118) 39	1 4 4 <sup>2</sup>	1 4 4 <sup>2</sup>	1 3 3 <sup>2</sup>		3 11 3 <sup>2</sup>	50
✓	8037 R	0				2 6 3 <sup>2</sup>	2 6 3 <sup>2</sup>	(120) 6
✓	8033XC-A	0				2 6 3 <sup>2</sup>	2 6 3 <sup>2</sup>	6
76	8027RS/26			(1) 2Yd	(2) 5Yd		(3) 7Yd	
76	8036 R	(118) 22	-	3 12 4 <sup>2</sup>	3 19 6 <sup>2</sup>	3 16 5 <sup>2</sup>	9 47 5 <sup>2</sup>	(120) 69
WEX	605Dr 4A	0	3 12 4 <sup>2</sup>				3 12 4 <sup>2</sup>	12
	605R 4A	0	1 4 4 <sup>2</sup>	3 15 5 <sup>2</sup>	3 1/4 13 4 <sup>2</sup>	2 10 5 <sup>2</sup>	9 1/4 42 4 <sup>2</sup>	(120) 42
<p style="text-align: center;">DISTRIBUTION</p> <p>DRIFTS 115 #</p> <p>CROSSCUTS 131 ✓</p> <p>RAISES 273 ✓</p> <p>TOTAL 519 ✓</p> <p>EX. EX 13 Yds.</p>								
			15	39	37 1/4	32	4 1/2	133 1/4
472			89	155	143	132	519	991
1925 Year. Total. to Date							6105 #.	



# WEST END PROGRESS

AUG. 1925

Neal, Stratford & Kerr, S. F. No. 19837

118

	No. Working	Total Forward	PROGRESS					Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period			
W.E.	682 D-3	(117) 44	3 10. 3 <sup>3</sup>	4 10. 2 <sup>5</sup>	3 10. 3 <sup>2</sup>	4 15. 3 <sup>2</sup>	14 45. 3 <sup>2</sup>	(119) 89	
	682 D-4	(117) 4	4 16. 4 <sup>0</sup>	3 12. 4 <sup>0</sup>	4 16. 4 <sup>0</sup>	4 17. 4 <sup>2</sup>	15 61. 4 <sup>1</sup>	(119) 65	
m <sup>c</sup>	427 R	(117) 60	6 32. 5 <sup>3</sup>	1 5. 5 <sup>0</sup>			7 37. 5 <sup>3</sup>	97	
m <sup>c</sup>	427 D-A	0			5 15. 3 <sup>0</sup>	6 25. 4 <sup>2</sup>	11 40. 3 <sup>5</sup>	40	
Ohio	453 TXR	0				2 7. 3 <sup>5</sup>	2 7. 3 <sup>5</sup>	(119) 7	
	704 R-1	0			3 11. 3 <sup>2</sup>	4 16. 4 <sup>0</sup>	7 27. 3 <sup>2</sup>	(119) 27	
	704 XC-1	(117) 48	7 30. 4 <sup>3</sup>	6 28. 4 <sup>2</sup>			13 58. 4 <sup>2</sup>	(119) 106	
	704 XC-2	(117) 12		1 4. 4 <sup>0</sup>	7 31. 4 <sup>4</sup>	8 40. 5 <sup>0</sup>	16 75. 4 <sup>2</sup>	(119) 87	
	8032 R.	(117) 98	2 5/8 10. 3 <sup>8</sup>	3 11. 3 <sup>2</sup>			5 5/8 21. 3 <sup>2</sup>	119	
	806 XC	(117) 19				3 11. 3 <sup>2</sup>	3 11. 3 <sup>2</sup>	(119) 30	
	805 XC-14	34			2 5. 2 <sup>5</sup>		2 5. 2 <sup>5</sup>	(119) 39	
"76"	8027 R	(117) 230	10 25. 2 <sup>5</sup>	2 10. 5 <sup>0</sup>			12 35. 2 <sup>9</sup>	265	
	8035 WZ.	(117) 4	4 7/8 7. 1 <sup>4</sup>	2 3/8 6. 2 <sup>5</sup>	4 6. 1 <sup>5</sup>	4 7/8 6. 1 <sup>5</sup>	15 3/8 25. 1 <sup>6</sup>	29	
	899 R-B-1	—	1 4. 4 <sup>0</sup>				1 4. 4 <sup>0</sup>	4	
	8036 R				4 17. 4 <sup>2</sup>	2 5. 2 <sup>5</sup>	6 22. 3 <sup>2</sup>	(119) 22	
	8035 Wz. sh.		1. 3yds				1. 3yds		
	1209 R. Hek. (T. Ex. Co.)	(117) 99	20 15 4	1			21	120	
Distribution									
	Drifts			146 ft.					
	Crosscuts			149	✓				
	Raises			153	✓	+21 (McKane)			
	Winzes			25	✓				
	Total			473	✓	+ 21' R in McKane			
			3 48 4 40	22 3/8	3 35	32	3 47	37 7/8	3 32
	553		134	86	111	142	473	1026	✓



# WEST END PROGRESS

JULY-1925

(117)

Neal, Stratford & Kerr, S. F. No. 19887

		No. Working		Total Forward		PROGRESS					Total		Total Length								
						1st Period		2nd Period		3rd Period		4th Period									
W.E	682-Dr 3	(115)	10							5	15	3.0	6	19	3.1	34	3.1	44	(116)		
✓	682-Dr 4		0										1	4	4.0	1	4	4.0	4	(117)	
OHIO	344XC N	(116)	98	2	6	3.0	4	12	3.0	3	6	2.2	1	2	2.0	10	26	2.6	124	(118)	
✓	344Dr P	(116)	36	2	6	3.0	3	7	2.3	3 1/8	9	2.2				8 1/8	23	2.5	58	(119)	
✓	426XC	(116)	55	3	10	3.3	8	37	4.6							11	47	4.3	102	(120)	
MEW	427R		0							7 1/2	40	5.2	3 1/2	20	5.2	10 1/2	60	5.1	60	(121)	
Ohio	555 R38	(116)	10	2	7	3.5	1	3	3.0							3	10	3.3	20	(122)	
✓	555 R39	(116)	10	3	12	4.0	1	5	5.0							4	17	4.2	27	(123)	
	555 Dr 15	(116)	193				1	2	2.0	2	5	2.5				3	7	2.3	200	(124)	
	8032 R	(116)	87										2 5/8	11	4.2	2 5/8	11	4.2	98	(125)	
✓	8032 Dr A	(116)	12	1	3	3.2										1	3	3.2	15	(126)	
✓	8032 Dr B	(116)	4	1	5	5.0										1	5	5.0	9	(127)	
	8025XC B		0					2	6	3.0						2	6	3.0	6	(128)	
	8034 R		0					1	4		2	5	2.5			3	9	4.5	9	(129)	
	704XC-1		0					1	2	2.0	7	25	3.2	4	21	4.2	12	48	4.0	48	(130)
	704XC 2 Stab									2 Yd								2 Yd		(131)	
	704XC-2		0							4	10	2.5	3	12	4.0	3	12	4.0	12	(132)	
	806XC		0										2	9	4.5	6	19	3.2	19	(133)	
76	605Dr 9	(116)	100	3	9	3.0	4	14	3.5	2	6	3.2				9	29	3.2	129	(134)	
✓	899Dr I	(116)	55	1	3	3.0	4	14	3.5							5	17	3.2	72	(135)	
✓	8027 R	(116)	153	3	10	3.3	4	16	4.0	5	22	4.4	7	29	4.1	19	77	4.0	230	(136)	
	8035 W2 Stab									7 Yd						7 Yd				(137)	
	8035 W2		0										2	4	2.0	2	4	2.0	4	(138)	
W.EEX	605R-4	(116)	42	2	6	3.0	3	15	5.0	3	14	4.2				8	35	4.2	77	(139)	
DISTRIBUTION.																					
Drifts																					
Crosscuts																					
Raises																					
Winzes																					
Yards.																					
	1209R-MFK	20	(19)	(20)	(20)	(20)														(140)	
(T.Ex.Co.)																					
		865	19	3.25	36	3.80	43 1/8	3.65	52 1/8	4.08	135 1/4	3.24								(141)	
		77																			



JUNE, 1925

(116)

[illegible]



## WEST END PROGRESS

APRIL 1925

Neal, Stratford &amp; Kerr, S. F. No. 19837

Neal, Stratford & Kerr, S. F. No. 1387

	No. Working	Total Forward	PROGRESS					Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period			
WE	648 R	0	-	5 15 3.0	3 15 5.0		8 30 3.7	30	
✓	588 R	0				3 15 5.0	3 15 5.0	15	
	432 Dr TX	-				① 3 Yd	① 3 Yd	3 Yd	
	344 XC L Slab	-			② 5 Yd		② 5 Yd	5 Yd	
0	344 XC L (113) 67	1	5 5.0			4 16 4.0	5 21 4.2 (115) 88		
0	344 Dr M (113) 65	3	13 4.3	4 16 4.0	3 11 3.7	4 11 2.7	14 51 3.6 (115) 116		
0	344 XC N	0	2 7 3.5	4 14 3.5	2 6 3.0	-	8 27 3.4 (115) 27		
0	430 Dr TX (112) 35			1 4 4.0			1 4 4.0	39	
0	425 Dr	0				2 7 3.5	2 7 3.5 (115) 7		
0	555 XC L Slab	-			① 3 Yd		① 3 Yd	3 Yd	
0	555 Dr 15 (113) 70	3	9 3.0	4 15 3.7	3 10 3.3	4 12 3.0	14 46 3.3 (115) 116		
0	555 XC-16	0				2 8 4.0	2 8 4.0 (115) 8		
0	805 Dr 3 Slab	-	① 3 Yd				① 3 Yd	3 Yd	
0	805 Dr 3 (113) 440	2	5 2.5				2 5 2.5	445	
0	805 XC 13 (113) 71	3	10 3.3	3 11 3.7	1 5 5.0		7 26 3.7	97	
0	807 XC Plug	-		6 Yd			② 6 Yd	6 Yd	
0	802 1/2 Dr (113) 12	3	11 3.7	4 11 2.7			7 22 3.1	34	
0	802 XC Slab	-			① 3 Yd		① 3 Yd	3 Yd	
0	802 XC	0			4 15 3.7	1 4 4.0	5 19 3.8	19	
0	8030 XC Slab	-				① 3 Yd	① 3 Yd	3 Yd	
0	8030 XC	0				5 22 4.4	5 22 4.4	22	
90	8031 R	0				2 8 4.0	2 8 4.0 (115) 8		
76	8028 Dr Slab			① 3 Yd			① 3 Yd	3 Yd	
76	605 Dr 8	0			4 12 3.0	5 20 4.0	9 32 3.6 (115) 32		
76	899 XC G (113) 104	4	17 4.2				4 17 4.2	121	
✓	8024 Dr (113) 68	6	28 4.7	5 21 4.2			11 49 4.4 (116) 117		
✓	8027 R	0	2 6 3.0	8 20 2.4		10 18 1.8	20 44 2.1 (115) 44		
✓	8028 Dr	0		2 10 5.0	7 33 4.7	6 23 3.8	15 66 4.4	66	
✓	8007 WZ (109) 182			14 26 1.9	6 6 1.0	12 17 1.4	32 49 1.7 (115) 31		
✓	8007 WZ Slab	-		② 6 Yd	⑥ 15 Yd	② 6 Yd	⑩ 27 Yd	27 Yd	
✓	8027 R Slab	-			① 2 Yd		① 2 Yd	2 Yd	
WEE	605 XC-7 (113) 98	6	31 5.2	8 40 5.0	7 35 5.0	7 29 4.3	28 135 4.8	233	
	605 Dr 8 (113) 101	2	10 5.0	1 5 5.0			3 15 5.0	116	
	8010 XC (112) 378	4	14 3.5	4 11 2.7	2 7 3.5	2 13 6.5	12 45 3.7	423	

## DISTRIBUTION

Drifts 297 H.  
 Cross cuts 320 ✓  
 Raises 97 ✓  
 Winzes 49 ✓  
 EX EX 58 Yds

41 4.05 67 1/2 3.24 44 3.69 69 3.25 219 1/2 3148  
 1691 166 219 1/2 155 ✓ 223 ✓ 763 ✓ 2454 ✓



# WEST END PROGRESS

MAY - 1925

Neal, Stratford & Kerr, S. F. No. 10837

(115)

Neal, Stratford & Kerr, S. F., No. 1993

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE	588 R566	15	① 3Yd.				① 3Yd	
0	344xc L	①14 88	3 9 3.0	4 12 3.0	3 11 3.7	4 8 2.0	14 40 2.86	128
	344 Dr. M.	①10 116	1 5 5.0	1 5 5.0			2 10 5.0	126
	344 Dr. MSbb		① 3Yd		① 2Yd		① 5Yd	
	344xc-N	①18 27	2 7 3.5	2 8 4.0	4 19 4.7	3 6 2.0	11 40 3.27	①16 67
	432 Dr. TXSbb		① 3Yd				① 3Yd	
	425 Dr.	①14 7	2 5 2.5				2 5 2.50	12
	566 R	0	2 11 5.5				2 11 5.50	11
	555 Dr 15	①10 116	3 8 2.7	3 9 3.0	4 12 3.0	4 14 3.5	14 43 3.07	①16 159
	555xc-16	①10 8	4 15 3.7	3 13 4.3	4 14 3.5	3 13 4.2	14 55 3.93	①16 63
	803 R	①18 8	2 3 1.5	2 7 3.5			4 10 2.50	18
	803 R	0	4 1/8 21 5.1	5 21 4.2	4 11 2.7	4 11 2.7	17 1/8 64 3.74	①16 64
	805xc-14	0	-		2 8 4.0	3 10 3.3	5 18 3.60	①16 18
-16	605 Dr 8	①14 32	2 7 3.5				2 7 3.50	39
	605xc 8	0	2 6 3.0	6 1/2 26 4.0	6 20 3.8		14 1/2 52 3.59	52
	605 Dr 9.				2 8 4.0	7 22 3.1	9 30 3.33	①16 30
	8007 Wz	①14 231	3 7 2.3	8 16 2.0	4 8 2.0	4 9 2.2	19 40 2.11	①15 271
	8007 Wz Slab.		① 24 Yd	① 9 Yd	① 5 Yd		① 38 Yd	
	8027 R	①10 44	14 1/8 29 2.1	12 1/8 31 2.5			26 1/4 60 2.25	①16 904
	899 Dr G				6 1/8 22 3.5	5 1/8 20 3.9	11 1/2 42 3.65	①16 42
	899 Dr I				2 6 3.0	5 21 4.2	7 27 3.86	①16 27
	899 Dr. ISbb					① 5Yd	① 5Yd	
WEEK	605xc 7	①14 233	5 33 6.6	7 30 4.3	7 34 4.9	3 14 4.7	22 111 5.05	344
	605xc 75/ab					① 3Yd	① 3Yd	
	8010 xc	①10 423	2 3 1.5		3 11 4.7		5 14 2.80	437

DISTRIBUTION.

Drifts	164 ft.
Crosscuts	330
Raises	145
Winzes	40
Total	679
Yards Ex. Ex.	57 Yds.

51 1/4	3.30	54 1/8	3.29	51 1/8	3.58	45 1/8	3.28	201 7/8	3.56
1333	✓	169	✓	178	✓	184	✓	679	✓
								2012	✓



## WEST END PROGRESS

MARCH 1925

Neal, Stratford &amp; Kerr, S. F. No. 19337

No. Working			Total Forward		PROGRESS				Total		Total Length	
			1st Period		2nd Period		3rd Period		4th Period			
W.E.	682XC-4	(112) 80	2	8 4.0	4	17 4.2			6	25 4.2	105✓	
✓	682XC-5	(112) 32	3	16 5.3	4	18 4.5	1	4 4.0	8	38 4.7	70✓	
✓	682R-10	(112) 4	1	4 4.0					1	4 4.0	8✓	
✓	682R-11	0					1	8 4.0	1	8 4.0	8✓	
✓	682Dr 3	0					2	10 5.0	2	10 5.0	(117) 10✓	
✓	641R-32	0			2	8 4.0	2	10 5.0	2	10 5.0	28	
0	344XCL	(112) 23	3	10 3.3	4	12 3.0	4	12 3.0	4	10 2.5	(114) 67✓	
0	344Dr M	(112) 19	3	10 3.3	3	11 3.7	3	10 3.3	4	15 3.7	(114) 65✓	
0	432XC TK Slab		(3)	9 Yd.	(4)	12 Yd	(1)	3 Yd		24 Yd		
0	555Dr 15	(112) 58	1	3 3.1					3	9 3.0	(114) 70✓	
0	555R-37	0			5	18 3.6	2	10 5.0	1	3 3.0	31✓	
0	565R	0							4	14 2.5	14✓	
0	344Dr MS/ab				(1)	3 Yd			(1)	3 Yd		
0	8021 Dr.	(112) 66	2	8 4.0					2	8 4.0	74✓	
0	8025 R	0			3	10 3.3	3	8 2.7	6	18 3.0	18✓	
0	8026 Dr	0							4	12 3.0	(114) 12✓	
0	805Dr 3 Slab						(1)	3 Yd.	(1)	3 Yd		
0	805Dr-3	(112) 408	2	7 3.5	4	8 2.0	2 1/2	5 1.9	3	12 4.0	(114) 440✓	
0	805XC-13	(111) 54			2	6 3.0			3	11 3.7	(114) 71✓	
0	830Dr-2	0	1	3 3.0	1	8 1.0			2	11 5.5	(121) 11✓	
0	807X- Slab						(2)	6 Yd	(2)	6 Yd		
0	8026 Dr Slab								(1)	3 Yd		
76	899R-B	(112) 337	5	16 3.2					5	16 3.2	353✓	
✓	899XC-G	(112) 25	6	23 3.9	5	19 3.9	2	8 4.0	7	29 4.1	(114) 104✓	
✓	899Dr H				2	9 4.5	2	8 4.0	4	17 4.5	17✓	
✓	8002XC	(112) 98	6	21 3.5					6	21 3.3	119✓	
✓	8023Dr	0			6	28 4.7	2	9 4.5	8	37 4.6	(116) 37✓	
✓	8024Dr	0			2	10 5.0	5	21 4.2	8	37 4.6	(114) 68✓	
✓	899XC G. Slab				(1)	3 Yd			(1)	3 Yd		
✓	899RBSlab				(2)	6 Yd			(2)	6 Yd		
W.E.E.X	605R-3	(112) 72	1	3 3.0					1	3 3.0	(116) 75✓	
	605XC-6	(112) 24	6	31 5.2					6	31 5.2	55✓	
	605XC-7	(112) 8			7	35 5.0	3 1/2	15 4.3	8	40 5.6	(114) 98✓	
	605Dr 8	(112) 20	6	18 3.0	8	31 3.9	4	12 3.0	4	20 5.6	(114) 101✓	
	605Dr 8 Slab						(3)	9 Yd.	(2)	6 Yd.		
DISTRIBUTION												
Drifts			334 ft.									
Crosscuts			345 ✓									
Raises			122 ✓									
Total.			801 ✓									
Yards -			63									
			48✓	3.77	62✓	4.0	39 1/2	3.77	59	3.76	208 1/8	3.89
			1328✓	181✓	248✓	150✓	222✓	801✓	2129✓			



# WEST END PROGRESS

FEB-1925

(112)

Neal, Stratford & Kerr, S. F. No. 19837

	No. Working	Total Forward	PROGRESS					Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period			
WE 682XC4	(111) 23	3	15 5.0	4 20 5.0	4 18 4.5	1 4 4.0	12 57 4.7	(112) 80	
682XC5	0				3 19 6.3	3 13 4.3	6 32 5.3	(112) 32	
682R-10	0					1 4 4.0	1 4 4.0	(113) 4	
Q 344XCL	0				4 13 3.2	2 10 5.0	6 23 3.8	(113) 23	
Q 344DrM	0				3 11 3.7	3 8 2.7	6 19 3.1	(113) 19	
Q 430EDrTX	(111) 12	3	9 3.0	4 11 2.7	1 3 3.0	—	8 23 2.9	(114) 35	
Q 432EATX	0				4 7 1.7	4 16 4.0	8 23 2.9	23	
Q 452DrTX	(111) 3	3	10 3.3	4 10 2.5	2 3 1.5		9 23 2.5	26	
Q 432EATXSlab									
432XC-Slab						(1) 3yd	(1) 3yd		
Q 540R-2	0			3 9 3.0			3 9 3.0	9	
Q 555Dr15	(111) 23	3	9 3.0	4 16 4.0	3 6 2.0	1 4 4.0	11 35 3.2	(113) 58	
Q 802Dr	(111) 40	1	5 5.0	3 9 3.0	2 8 4.0	1 4 4.0	7 26 3.7	(113) 66	
Q 805W22	(111) 51	1	2 2.0	—			1 2 2.0	53	
Q 805Dr3	(111) 395	—	—	1 4 4.0	2 1/2 6 2.4	1 3 3.0	4 1/2 13 2.9	(113) 408	
Q 805R-13	(111) 18				5 1/2 12 2.2	3 8 2.7	8 1/2 20 2.4	38	
Q 805R-14	(111) 17	2	6 3.0	3 5 1.7	2 1/4 5 2.2	—	7 1/4 16 2.2	33	
805W22Slab		(1) 3yds					(1) 3yd		
W.E.E. 8020RSlab					(2) 6yd		(2) 6yd		
76 899RB	(111) 279	4	12 3.0	4 1/2 13 2.9	5 15 3.0	5 18 3.6	18 1/2 58 3.2	(113) 337	
✓ 899RBSlab		(111) 3yd		12yd			(5) 15yd		
✓ 899DrE	(111) 31	5	15 3.0	7 1/8 2.8	6 25 4.2		18 1/8 8 3.7	99	
✓ 899XC-G	0				2 7 3.5	5 18 3.6	7 25 3.6	(112) 25	
✓ 8015DrSlab									
✓ 8017XC Slab		(1) 3yd					(1) 3yd		
✓ 8022XC	0	3	18 6.0				3 18 6.0	18	
8002XC	83					4 15 3.7	4 15 3.7	(113) 98	
605XC-6	0				1/2 3 6.0	4 21 5.2	4 1/2 24 5.3	(113) 24	
605XC-7	0				1/2 2 4.0	1 6 6.0	1 1/2 8 5.3	(113) 8	
W.E.E. 605R-3	(111) 7	6	19 3.2	5 1/4 14 2.7	7 17 2.4	4 1/8 15 3.2	22 1/8 65 2.9	(112) 72	
605Dr2Slab		(1) 3yd					(1) 3yd		
605XC-4	0			4 15 3.7	7 36 5.1		11 5.1 4.6	51	
605XC4Slab		(2) 6yd					(2) 6yd		
605XC5	0	3	15 5.0		7 28 4.0		10 43 4.3	43	
605Dr8	0				1 4 4.0	4 16 4.0	5 20 4.0	(113) 20	
8010XC	(111) 346	2	10 5.0	5 22 4.4			7 32 4.6	(114) 378	
8020R	(111) 132	10	20 2.0	8 18 2.3	12 28 2.3	2 5 2.5	32 71 2.2	203	
605Dr8Slab						(1) 3yd	(1) 3yd		
1460		46	3.26	63 1/8 2.09	3.30	84 1/2 2.76	49 1/8 3.79	823 3.33	
			150					2283	



No. Working	Total Forward	PROGRESS				Total	Total Length
		1st Period	2nd Period	3rd Period	4th Period		
WE 682 XC-4	0	-	-	1 3 3.0	4 20 5.0	5 23 4.1	(112) 23
0 435 Dr. TX Slab					① 3 Yd	① 3 Yd	
0 430 E Dr. TX	0	-	-	1 4 4.0	4 8 2.0	5 12 2.4	(112) 12
✓ 451 Dr. TX	0	-	-	3 11 3.7	1 3 3.0	4 14 3.5	14
✓ 480 E Dr. TX	(10) 44	6 20 3.3	-	-	-	6 20 3.3	64
480 XC-TX	0	-	7 23 3.3	-	-	7 23 3.3	23
480 XC-TX Slab		-	-	① 3 Yd	-	① 3 Yd	
452 Dr. TX	0	-	-	-	1 3 3.0	1 3 3.0	(112) 3
0 554 Dr. A	(95) 230	-	-	1 3 3.0	2 5 2.5	5 8 2.7	238
0 555 Dr. 15	0	-	-	8 8 2.7	4 15 3.7	7 23 3.3	(112) 23
0 555 R 35	0	3 6 2.0	4 11 2.7	-	-	7 17 2.4	17
0 480 E Dr. Slab		① 3 Yd	-	-	-	① 3 Yd	
555 R 35 Slab		-	-	① 3 Yd	-	① 3 Yd	
0 8021 Dr	(110) 14	-	3 15 5.0	4 8 2.0	1 3 3.0	8 26 3.3	(112) 40
8021 Dr. Slab		① 3 Yd	-	-	-	① 3 Yd	
0 805 Dr. 3	(110) 392	1 3 3.0	-	-	-	1 3 3.0	(112) 395
0 805 Wz. 2	(110) 13	1 4 4.0	4 15 3.7	4 10 2.5	3 9 3.0	12 38 4.4	(112) 51
0 805 XC-13	(110) 51	1 3 3.0	-	-	-	1 3 3.0	(112) 54
0 805 R-13	0	1 3 3.0	3 15 5.0	-	-	4 18 4.5	(112) 18
0 805 R-14	0	1 3 3.0	1 4 4.0	2 6 2.7	1 4 4.0	5 17 3.2	(112) 17
0 805 Wz. 2 Slab		① 3 Yd	-	-	-	① 3 Yd	
0 805 Dr. 3	✓	① 3 Yd	-	-	-	① 3 Yd	
0 805 R-13	✓	① 3 Yd	-	-	-	① 3 Yd	
76 899 R B	(110) 161	7 52 4.6	8 34 4.3	8 33 4.1	7 19 2.1	32 118 3.7	(112) 279
✓ 899 Dr. D	(110) 53	6 23 3.8	-	-	-	6 23 3.8	76
✓ 899 Dr. E	0	-	-	2 8 4.0	6 23 3.8	8 31 3.9	(112) 31
✓ 899 XC D	0	-	8 31 3.9	4 21 5.2	-	12 52 4.3	52
899 Dr. F	0	-	-	-	3 11 3.7	3 11 3.7	(112) 11
✓ 8012 R	(110) 209	6 20 3.3	8 31 3.9	4 22 5.8	-	18 73 3.9	282
8012 R Slab		① 3 Yd	-	-	-	① 3 Yd	
8003 R	(110) 312	-	-	-	3 10 3.3	3 10 3.3	322
W.E.E. 605 Dr. 2	(110) 15	3	-	-	-	3	18
✓ 605 R-2	0	6 20 3.3	7 23 3.1	6 22 5.4	-	19 78 3.3	65
✓ 605 R-2A		-	-	-	2 5 2.0	2 5 2.0	5
✓ 892 Dr	(110) 244	4 17 4.2	-	-	-	4 17 4.2	261
✓ 8010 XC	(110) 206	7 32 4.6	7 33 4.7	8 38 4.7	8 37 4.6	30 140 4.7	(112) 346
✓ 8020 R	(110) 32	6 11 1.8	14 37 2.6	14 30 2.1	10 22 1.2	44 100 2.3	(112) 132
605 R-3	0	-	-	-	2 7 3.5	2 7 3.5	7
8020 R Slab		-	-	-	② 6 Yd	② 6 Yd	
DISTRIBUTION		{ DRIFTS 194 CROSS CUTS 241 RAISES 430 WINZES 38		30 Yds			
1976 ✓		56 3.52	74 3/8 3.66	66 3/8 3.42	44 3/4 3.16	26 1/4 3.46	287 7/8
		200 ✓	272	227	204 ✓	903	287 7/8



## WEST END PROGRESS

OCT 1926.

132

Neal, Stratford &amp; Kerr, S. F. No. 19837

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
WE	460 R 9	(121) 44	3 19	4 16			7 35	79
	580 Dr 2	(131) 63			1 3	4 10	5 13	(133) 76
	580 R 8	(121) 15	3 11	4 12	2 9		9 32	47
	684 R		2 8	2 8	2 5	3 13	9 34	(132) 34
6	617 Dr.	(31) 105	3 12	4 14	4 14	3 15	14 55	160
76	1004 Dr	0		3 11	3 19	2 4	8 34	(134) 34
✓	1005 Dr					1 3	1 3	(132) 3
WEX	902 Dr	(121) 91	1 4				1 4	95
	903 Dr	(131) 126		4 16			4 20	146
	905 XC				2 10		2 10	10
	906 R				2 8	4 17	6 25	(133) 25
DISTRIBUTION								
Dritts			129 H					
Crosscuts			10 ✓					
Raises			126 ✓					
Total			265 ✓					
			12	21	16	17 3/8	6 8 3/8	
	444		54	77	68	62	265	709



## WEST END PROGRESS

Nov. 1926

133

Neal, Stratford &amp; Kerr, S. F. No. 1937

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
W.E. 580 Dr 2	(132) 76	3	12				3 12	(134) 88
✓ 684 Rasc	(132) 34	2		3 10	✓ 8	✓ 12	7 30	(134) 64
OHIO 618 R.		4	17	3 12	4 15	1/4 -	11 44	(134) 44
76 1005 Dr.	(132) 3	1	5		3 8		4 13	(134) 16
DISTRIBUTION.								
WEEK 906 R.	(132) 25	3	12	3 15	✓ 7		9 34	59
Man Pitts 804 LXC	0	4	12	3 16	4 14	✓ 7	13 39	(134) 39
	13 8	15	58	12 43	15 52	4 19	42 172	310



DEC-1926 1134

[illegible]



## WEST END PROGRESS

JAN. 1927.

135

Neal, Stratford &amp; Kerr, S. F. No. 1937

Real, Stratford & Kerr, S. F. No. 591								
	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
OHIO	<sup>134</sup> 618R	(134) 83	10	3 9			19	102
WE	686 XC	0			3	4	7	7



## WEST END PROGRESS

FEB. 1927

136

Neal, Stratford &amp; Keer, S. F. No. 19347

	No. Working	Total Forward	PROGRESS					Total Length
			1st Period	2nd Period	3rd Period	4th Period	Total	
-76-	1032 xc-2	(135) 21	12	4 17	2 9	2 8	46	67
	8040 Wz	(135) 44	6	3 7	3 7	3 7	27	(137) 71
	8042 xc	(136) 17	9	4 13	2 6		28	45
W.EEX	907 Rs	(136) 23	7		1 4	2 9	20	(137) 43
M.B.	8041 xc	(136) 158	17	4 18	2 10		45	203
	8043 Dr.	0			2 9		9	(137) 9
	8044 Dr.	0				2 8	8	(137) 8

## Distribution

Drifts	17 ft.
Crosscuts	119
Raises	20
Winzes	27
Total	183 ✓

263 ✓	51 ✓	55 ✓	45 ✓	32 ✓	183	446 ✓
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# WEST END PROGRESS

MARCH 1927.

137

Neal, Stratford & Kerr, S. F. No. 19837

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
76	8007 WZ	(115) 271	10	6	6		22	293✓
✓	8040 WZ	(136) 71	8	5			13	84✓
	850 XC-1	0		3	4	5	12	(138) 12✓
	850 XC-2	0			4		4	(139) 4✓
W.EEX	907 R	(136) 43	12	9	11		32	75✓
	905 XC	10			8	4	12	22✓
	908 Dr	0				14	14	(138) 14✓
	909 Dr	0				9	9	9✓
M.P.	8043 Dr	(136) 9	3	10	10	19	42	(138) 51✓
✓	8044 Dr	(136) 8	7	9	5		21	(138) 29✓
Distribution.								
					76-WEX.	MP		
					Drifts	23	63✓	
					Crosscuts	28		
					Raises	32		
					Winzes	35		
						<u>118</u> ✓		
		412	40	42	48	51	181	593



# WEST END PROGRESS

April-1927

138

Neal, Stratford & Kerr, S. F. No. 19837

Neal, Stratford & Kerr, S. F. No. 1937

	No. Working	Total Forward	PROGRESS					Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period			
-76-	850 Xc-1	(137) 12	3 11	3 11	11	14	47	(139) 59 ✓	
	1032 Dr-1	0	6 23	6 31	18		72	(139) 72 ✓	
	1005 Dr.	(134) 19			15	17	32	(139) 51 ✓	
WEE	908 Dr.	(137) 14	5 1/2 20	5 20	19	14	73	(139) 87 ✓	
MD.	8043 Dr	(137) 51	1 4	1 5	14	5	28	79 ✓	
	8044 Dr.	(139) 29	2 10	2 21		7	38	(139) 67 ✓	
Distribution									
					76-WEX		MP		
					177		66		
					47				
					-				
					-				
					224		66		
		125 ✓	68 ✓	88 ✓	77 ✓	57 ✓	290 ✓	415 ✓	



# WEST END PROGRESS

131  
MAY-1927

Neal, Stratford & Kerr, S. F. No. 19837

	No. Working	Total Forward	PROGRESS					Total Length
			1st Period	2nd Period	3rd Period	4th Period	Total	
J.B	8045xc	0				18	18	(140) 18 ✓
76	850xc 1	(138) 59	6				6	(140) 65 ✓
	850xc 2	(137) 4		12	9	8	29	(140) 33 ✓
	1005Dr	(138) 51	18	24	27	26	95	(140) 146 ✓
	1005Dro 1/2				3Yd.		3Yd	
	1032Dr 1-	(139) 72				7	7	(140) 79 ✓
W.E.X.	908 Dr	(138) 87	8	16	12	13	49	136
M.P.	8044 Dr.	(138) 67	8				8	75
		340	40	52	48	72	212	552



# WEST END PROGRESS

Neal, Stratford & Kerr, S. F. No. 19337

JUNE 1927

140

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
J.B.	8045XC	(139) 18	7 33	7 34	39 6	25	131	(144) 149✓
Ohio	457TX Dr	(139) 0			6	9	15	(144) 15✓
76	850XC-2	(139) 33	3 9	3 10	9	9	37	70✓
	1032Dr-1	(139) 79	7 22	6 18	20	17	77	(141) 156✓
WEEK.	1005 Dr	(139) 146	2 15				15	161✓
	1007 XC	0	4 18	7 33	19	4	74	74✓
	1008 Dr	0				18	18	(141) 18✓
- Distribution. -								
			Drifts	125				
			Crosscuts	242				
			Total	367				
		276	97	95	93	82	367	643



# WEST END PROGRESS

JULY 1927

Neal, Stratford & Kerr, S. F. No. 10837

	No. Working	Total Forward	PROGRESS					Total Length
			1st Period	2nd Period	3rd Period	4th Period	Total	
J.B.	8045xL	(140) 149	14	19	34	38	105	(142) 254
Ohio	457TX-Dr.	(140) 15	6	10	10	5	31	46
76	1032Dr-1	(140) 156	8	21	18	26	73	(142) 229
	850xL-1	(139) 65		3			3	(142) 68
	1008Dr	(140) 18	11	24	18	4	57	75
	1009R Slab		3Yd				3Yd	
	1009 R.	0	4	13	9	13	39	(142) 39
	910 R				4		4	4
	1008Dr Slab				3Yd		3Yd	
		403	43	90	93	86	312	715



## WEST END PROGRESS

1142  
AUG. 1927

Neal, Stratford &amp; Kerr, S. F. No. 19837

	No. Working	Total Forward	PROGRESS				Total	Total Length
			1st Period	2nd Period	3rd Period	4th Period		
J B	1045 XC	(141) 254	29	37			66	320
✓	1046 XC	0			16	17	33	33
TX								
76	1032 Dr-1	(141) 229	22	19	7	14	62	291
✓	850 XC-1	(41) 68		6		3	9	97
WEX								
✓	1009 R	(141) 39	12	19	19	15	65	104
Distribution								
Dritts					62 ft.			
Crosscuts					65 ✓			
Raises					108			
Total.					235 ft			
		590	63	81	42	49	235	825



# HALIFAX PROGRESS

JAN. 1926

Neal, Stratford & Kerr, S. F. No. 19337

No. Working	Total Forward	PROGRESS					Total Length
		1st Period	2nd Period	3rd Period	4th Period	Total	
972 Dr.	39			3 12 4		3 12 4	51
975 R	0				2 7 3.5	2 7 3.5	7
<p>Halifax shaft caved at 800 station —  about 2/1/26 —  All tools etc taken out and mine  is temporarily abandoned. —</p>							
	39			3 4 2 3.5 5 3.5		12 7 19	58



# HALIFAX PROGRESS

Neal, Stratford & Kerr, S. F. No. 19837

DEC. 1925

(122)

No. Working	Total Forward	PROGRESS				Total	Total Length
		1st Period	2nd Period	3rd Period	4th Period		
972 Dr	16 <sup>(121)</sup>	1 4 4 <sup>0</sup>	2 8 4 <sup>0</sup>	2 8 4 <sup>0</sup>	1 3 3 <sup>0</sup>	6 23 3 <sup>1</sup>	(123) 39
973 Dr	15 <sup>(121)</sup>	3 14 4 <sup>2</sup>	1 4 4 <sup>0</sup>			4 18 4 <sup>2</sup>	93
974 R	0		2 9 4 <sup>0</sup>	1 3 3 <sup>0</sup>		3 12 4 <sup>0</sup>	12
1173 R	0		1 3 3 <sup>0</sup>	1 3 3 <sup>0</sup>		2 6 3 <sup>0</sup>	6
DISTRIBUTION							
DRIFTS				41 ft.			
RAISES				18 ✓			
TOTAL				59 ✓			
31		4 ✓ 4 <sup>0</sup>	6 ✓ 4 <sup>0</sup>	4 ✓ 3 <sup>0</sup>	1 ✓ 3 <sup>0</sup>	15 ✓ 4 <sup>0</sup>	90
		18	24	14	3	59	



Nov. 1925

## PROGRESS

[illegible]



Oct. 1925

129

[illegible]



Sept. 1925

Neal, Stratford & Kerr, S. F. No. 19337

No. Working	Total Forward	PROGRESS				Total	Total Length
		1st Period	2nd Period	3rd Period	4th Period		
938 Dr	6	3 9 3 2	4 14 3 5	4 14 3 5	4 14 3 5	15 51 3 4	57
1058 R	40	3 7 2 3	4 11 2 3	4 10 2 5	3 7 2 3	14 35 2 5	75
	46	6 16 2 1	8 25 2 2	8 24 3 2	7 21 3 2	29 86 2 7 6	132



# HALIFAX PROGRESS

Aug. 1925

Neal, Stratford & Kerr, S. F. No. 19837

No. Working	Total Forward	PROGRESS					Total	Total Length
		1st Period	2nd Period	3rd Period	4th Period	Total		
958xc	(117) 16	4 14 <sup>35</sup>				4 14 <sup>35</sup>		30
959 Dr	0			4 18 <sup>45</sup>	1 4 <sup>40</sup>	5 22 <sup>45</sup>		22
1057 R	(117) 28	4 8 <sup>20</sup>	2 5 <sup>25</sup>			6 13 <sup>25</sup>		41
1058 R	(117) 13			4 17 <sup>45</sup>	4 10 <sup>25</sup>	8 27 <sup>45</sup>		40
1059 R	0		2 6 <sup>30</sup>			2 6 <sup>30</sup>		6
938 Dr	0				(3) 9 Yds	(3) 9 Yds		

Distribution  
 Drifts 22  
 Crosscuts 14  
 Raises 46  
 82

✓ 57 ✓ 22 ✓ 11 ✓ 35 ✓ 14 ✓ 82 ✓ 139



# HALIFAX PROGRESS

JULY 1925

(117)

Neal, Stratford & Kerr, S. F. No. 19837

No. Working	Total Forward	PROGRESS					Total	Total Length
		1st Period	2nd Period	3rd Period	4th Period			
952xc	0				4 16 4 <sup>2</sup>	4 16 4 <sup>2</sup>	16	
1057 R	0	3 9 3 <sup>2</sup>	1 3 3 <sup>2</sup>	2 6 3 <sup>2</sup>	4 10 2 <sup>5</sup>	10 28 2 <sup>1</sup>	(115) 28	
1058 R	0		3 10 3 <sup>2</sup>	1 3 3 <sup>2</sup>	—	4 13 3 <sup>2</sup>	(118) 13	
DISTRIBUTION								
Crosscuts				16 ft.				
Raises				41 v.				
Total.				57 v.				
	0	3 9 3 <sup>2</sup>	4 13 3 <sup>2</sup>	3 9 3 <sup>2</sup>	8 26 3 <sup>2</sup>	18 31	57 v.	57 v.



# HALIFAX PROGRESS

JUNE 1925

(116)

Neal, Stratford & Kerr, S. F. No. 19337

No. Working	Total Forward	PROGRESS					Total Length
		1st Period	2nd Period	3rd Period	4th Period	Total	
966 Dr	(115) 9	" 12			12	21	21
967 R	0		" 12		12	12	12
1055 XC	(115) 158	" 10	" 10	" 10	" 8	38	196



# PROGRESS

MAY- 1925-

815

Neal, Stratford & Kerr, S. F. No. 19837

[illegible]



# HALIFAX PROGRESS

APRIL 1925

Neal, Stratford & Kerr, S. F. No. 19837

No. Working	Total Forward	PROGRESS					Total	Total Length
		1st Period	2nd Period	3rd Period	4th Period			
962Dr	(113) 88	3 10 3.3	2 7 3.5				5 17 3.4	105
964R			2 7 3.5	3 10 3.3			5 17 3.4	17
965R					3 12 4.0		3 12 4.0	(115) 12
1055xc	(113) 78	2 7 3.5	4 15 3.7	4 14 3.5	4 10 2.5		14 46 3.3	(115) 124
166-		5 17 3.4	8 29 3.6	7 24 3.4	7 22 3.1		27 92 3.41	258



MARCH 1925

Neal, Stratford & Kerr, S. F. No. 19337

[illegible]



[illegible]



[illegible]



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Ext. Mng. Co.

Mill Lot No.          5098

Shipper's Lot No.      125

### ASSAYS:

Gold	.18	Ozs. at \$20.00	3.60
------	-----	-----------------	------

Silver	22.50	Ozs. at .55625	12.52
--------	-------	----------------	-------

	16.12
--	-------

Less Loss in Milling 10 per cent	1.61
----------------------------------	------

	14.51
--	-------

Wet weight of ore	96330	lbs.
-------------------	-------	------

Less Moisture 2.5%	2408	"
--------------------	------	---

Dry weight of ore	93922	" at 14.51 per ton	681.40
-------------------	-------	--------------------	--------

Milling:	46.961	dry tons at	4.25	199.58
----------	--------	-------------	------	--------

Hauling	48.165	wet tons at	.30	14.45	214.03
---------	--------	-------------	-----	-------	--------

NET RETURNS	467.37
-------------	--------

Royalty to West End Ext. Mng. Co. @ 15%	70.11
-----------------------------------------	-------

New York Silver Quotation of    55-5/8

Date of sampling      3/29/27

APPROVED: \_\_\_\_\_

*W. J. Felt*  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Ext. Mining Co.

Mill Lot No.      5100

Shipper's Lot No. 126

### ASSAYS:

Gold	.13	Ozs. at \$20.00	2.60
------	-----	-----------------	------

Silver	15.25	Ozs. at .5625	8.58
--------	-------	---------------	------

Gross value per ton	11.18
---------------------	-------

Less Loss in Milling 10 per cent	1.12
----------------------------------	------

Net value per ton	10.06
-------------------	-------

Wet weight of ore	96810	lbs.	
-------------------	-------	------	--

Less Moisture 2.5%	2420	"	
--------------------	------	---	--

Dry weight of ore	94390	"	at 10.06 per ton
-------------------	-------	---	------------------

Milling:	47.195	dry tons at	4.25	200.58	
----------	--------	-------------	------	--------	--

Hauling	48.405	wet tons at	.30	14.52	215.10
---------	--------	-------------	-----	-------	--------

NET RETURNS	259.68
-------------	--------

Royalty to West End Ext. Mng. Co. @ 10%	25.97
-----------------------------------------	-------

New York Silver Quotation of      56 $\frac{1}{4}$

Date of sampling      3/30/27

APPROVED: \_\_\_\_\_

*Off J. A. L.*  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5102

Shipper's Lot No. 127

### ASSAYS:

Gold	.16	Ozs. at	\$20.00	3.20
------	-----	---------	---------	------

Silver	16.05	Ozs. at	.5575	8.95
--------	-------	---------	-------	------

Gross value per ton	12.15
---------------------	-------

Less Loss in Milling 10 per cent	1.22
----------------------------------	------

Net value per ton	10.93
-------------------	-------

Wet weight of ore	94950	lbs.	
-------------------	-------	------	--

Less Moisture 2.5%	2374	''	
--------------------	------	----	--

Dry weight of ore	92576	''	at 10.93 per ton	505.93
-------------------	-------	----	------------------	--------

Milling:	46.288	dry tons at	4.25	196.72
----------	--------	-------------	------	--------

Hauling	47.475	wet tons at	.30	14.24	210.96
---------	--------	-------------	-----	-------	--------

NET RETURNS	294.97
-------------	--------

Royalty to West End Ext. Mng. Co. @ 10%	29.50
-----------------------------------------	-------

New York Silver Quotation of 55-3/4

Date of sampling 3/31/27

APPROVED: \_\_\_\_\_

*O. J. Kelly*  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5096

Shipper's Lot No. 124

### ASSAYS:

Gold	.21	Ozs. at \$20.00	4.20
------	-----	-----------------	------

Silver	21.60	Ozs. at .555	11.99
--------	-------	--------------	-------

	16.19
--	-------

Less Loss in Milling 10 per cent	1.62
----------------------------------	------

	14.57
--	-------

Wet weight of ore	73000	lbs.	
-------------------	-------	------	--

Less Moisture 2.5%	1824	"	
--------------------	------	---	--

Dry weight of ore	71176	" at 14.57 per ton	518.52
-------------------	-------	--------------------	--------

Milling:	35.588	dry tons at	4.25	151.25
----------	--------	-------------	------	--------

Hauling	36.500	wet tons at	.30	10.95
---------	--------	-------------	-----	-------

	162.20
--	--------

	356.32
--	--------

Royalty to West End Ext. Mng. Co. @ 15%	53.45
-----------------------------------------	-------

New York Silver Quotation of 55½¢

Date of sampling 3/27/27

APPROVED: \_\_\_\_\_

*O. J. Ahl*

Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mining Co.,

Mill Lot No. 5094

Shipper's Lot No. 123

### ASSAYS:

Gold	.13	Ozs. at \$20.00		2.60
Silver	15.95	Ozs. at .55375		8.83
Gross value per ton				11.43
Less Loss in Milling 10 per cent				1.14
Net value per ton				10.29
Wet weight of ore	84.130	lbs.		
Less Moisture 2.5%	2104	"		
Dry weight of ore	82026	"	at 10.29 per ton	422.02
Milling:	41.013	dry tons at	4.25	174.30
Hauling	42.065	wet tons at	.30	12.62
NET RETURNS				235.10
Royalty to West End Ext. Mng. Co. @ 10%				23.51

New York Silver Quotation of 55-3/8

Date of sampling 3/26/27

APPROVED: \_\_\_\_\_

*O. J. Faly*

Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5093

Shipper's Lot No. 122

### ASSAYS:

Gold	.15	Ozs. at \$20.00	3.00
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Silver	15.25	Ozs. at .55375	8.44
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	11.44
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Less Loss in Milling 10 per cent	1.14
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	10.30
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Wet weight of ore	96810	lbs.
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Less Moisture 2.5%	2420	"
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Dry weight of ore	94390	" at 10.30 per ton , 486.11
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Milling:	47.195	dry tons at	4.25	200.58
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Hauling	48.405	wet tons at	.30	14.52	215.10
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NET RETURNS	271.01
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Royalty to West End Ext. Mng. Co. @ 10%	27.10
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New York Silver Quotation of 55-3/8¢

Date of sampling 3/25/27

APPROVED: \_\_\_\_\_

*Off July*  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5091

Shipper's Lot No. 121

### ASSAYS:

Gold	.16	Ozs. at \$20.00		3.20
Silver	15.05	Ozs. at .55125		8.30
				<hr/>
		Gross value per ton		11.50
		Less Loss in Milling 10 per cent		1.15
				<hr/>
		Net value per ton		10.35
Wet weight of ore	68690	lbs.		
Less Moisture 2.5%	1718	"		
Dry weight of ore	66972	"	at 10.35 per ton	346.58
Milling:	33.486	dry tons at	4.25	142.32
Hauling	34.345	wet tons at	.30	10.30
				<hr/>
		NET RETURNS		193.96
				<hr/>
Royalty to West End Ext. Mng. Co. @ 10%				19.40

New York Silver Quotation of 55-1/8

Date of sampling 3/24/27

APPROVED: \_\_\_\_\_

*W. J. Saly*

Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5089

Shipper's Lot No. 120

### ASSAYS:

Gold	.16	Ozs. at \$20.00	3.20
Silver	16.00	Ozs. at .55	8.80
			<hr/>
Gross value per ton			12.00
Less Loss in Milling 10 per cent			1.20
			<hr/>
Net value per ton			10.80

Wet weight of ore	69380	lbs.	
Less Moisture 2.5%	1734	"	
Dry weight of ore	67646	"	at 10.80 per ton
			365.29

Milling:	33.823	dry tons at	4.25	143.75	
Hauling	34.690	wet tons at	.30	10.41	154.16
					<hr/>
NET RETURNS					211.13
Royalty to West End Ext. Mng. Co. @ 10%					21.11

New York Silver Quotation of 55¢

Date of sampling 3/23/27

APPROVED: \_\_\_\_\_

*Oh J. Alb*  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Ext. Mng. Co.

Mill Lot No.            5087

Shipper's Lot No.      119

### ASSAYS:

Gold	.16	Ozs. at \$20.00	3.20
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Silver	17.55	Ozs. at .55	9.65
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	12.85
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Less Loss in Milling 10 per cent	1.29
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	11.56
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Wet weight of ore	70760	lbs.	
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Less Moisture 2.5%	1770	"	
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Dry weight of ore	68990	"	at 11.56 per ton	398.76
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Milling:	34.495	dry tons at	4.25	146.60	
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Hauling	35.380	wet tons at	.30	10.61	157.21
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NET RETURNS	241.55
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Royalty to West End Ext. Mng. Co. @ 10%	24.16
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New York Silver Quotation of 55¢

Date of sampling      3/22/27

APPROVED: \_\_\_\_\_

Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5084

Shipper's Lot No. 118

### ASSAYS:

Gold	.16	Ozs. at \$20.00	3.20
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Silver	16.55	Ozs. at .555	9.19
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Gross value per ton	12.39
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Less Loss in Milling <sup>10</sup> per cent	1.24
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Net value per ton	11.15
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Wet weight of ore	54440	lbs.	
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Less Moisture 2.5%	1362	"	
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Dry weight of ore	53078	"	at 11.15 per ton 295.91
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Milling:	26.539	dry tons at	4.25	112.79	
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Hauling	27.220	wet tons at	.30,	8.17	120.96
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NET RETURNS	174.95
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Royalty to West End Ext. Mng. Co. @ 10%	17.50
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New York Silver Quotation of 55½¢

Date of sampling 3/21/27

APPROVED: \_\_\_\_\_

*O. J. Ahl*

Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF West End Ext. Mng. Co.

Mill Lot No. 5077

Shipper's Lot No. 117

### ASSAYS:

Gold	.18	Ozs. at \$20.00		3.60
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Silver	18.50	Ozs. at .5475		10.13
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	Gross value per ton	13.73
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Less Loss in Milling <sup>10</sup>	per cent	1.37
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	Net value per ton	12.36
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Wet weight of ore	55480	lbs.	
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Less Moisture 2.5%	1110	"	
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Dry weight of ore	54370	"	at 12.36 per ton	336.01
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Milling:	27.185	dry tons at	4.25	115.54	
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Hauling	27.740	wet tons at	.30	8.32	123.86
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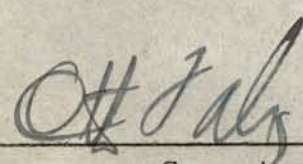
NET RETURNS	212.15
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Royalty to <del>For</del> West End Ext. Mng. Co. @ 10%	21.22
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New York Silver Quotation of 54-3/4

Date of sampling 3/18/27

APPROVED: \_\_\_\_\_

  
Secretary.



# WEST END CONSOLIDATED MINING COMPANY

## ORE SETTLEMENT

TONOPAH, NEVADA,

April 10, 1927

FOR ACCT. OF      West End Ext. Mng. Co.

Mill Lot No.            5076

Shipper's Lot No.      116

### ASSAYS:

Gold	.16	Ozs. at \$20.00	3.20
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Silver	16.25	Ozs. at    .5425	8.82
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	12.02
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Less Loss in Milling 10 per cent	1.20
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	10.82
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Wet weight of ore	55050	lbs.	
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Less Moisture 2.5%	1376	"	
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Dry weight of ore	53674	"	at 10.82 per ton      290.38
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Milling:	26.837	dry tons at	4.25	114.06
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Hauling	27.525	wet tons at	.30	8.26      122.32
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NET RETURNS	168.06
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Royalty to West End Ext. Mng. Co. @ 10%	16.81
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New York Silver Quotation of    54 $\frac{1}{4}$

Date of sampling            3/16/27

APPROVED: \_\_\_\_\_

*Off & alky*

Secretary.



MIZPAH

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