

Oro Blanco Mining District and Surrounding Area

Section: 8

Ruby, Montana Mine March 12, 1928 Appraisal

This section is one of many that contains information, documents, letters, newspaper and other articles, pictures, etc. of the research project called *Oro Blanco Mining District and Surrounding Area*. They have been collected and arranged in chronological order and in some cases by subject. It was collected, organized and put into the computer by Al Ring.

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SURFACE PLANT AT MONTANA MINE
MINE DUMP IN FOREGROUND

**Ruby, Montana Mine
March 12, 1928 Appraisal
Hugo Miller Papers #2**

Note: The following papers belong to Al Ring, and have been given to him by Mr. & Mrs. Hugo S. Miller, in 2004.

APPRAISAL REPORT

MILLER'S ASSAY OFFICE
NOGALES, ARIZONA

THE EAGLE-PICHER LEAD COMPANY

MONTANA MINE

March 12, 1928.

VOLUME NO. 6

BY

THE AMERICAN APPRAISAL COMPANY

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INDEX OF INVENTORY—VOLUME NO. 6

Pages

GENERAL REPORT ON MONTANA MINE

GENERAL DESCRIPTION AND HISTROY

Sketch Map of Southern part of Arizona showing Location of Montana Mines operation	- 1
Location	2 - 4
The Claims	4 - 5
History	6 - 8
Topography, Drainage, and water supply	8 - 10

GEOLOGY

General Geology	11 - 13
Geology of the Montana and Gold Boulder Claims	13 - 16
Montana Vein	16 - 21
Prospects	21 - 23

MINE EXAMINATION

Development	24 - 26
Method of Mining	26 - 27
Surface Plant	27 - 29
Flow Sheet of Mill	29 - 32
Labor Supply	32 - 33
Tonnage Estimates and Ore Values	33 - 35
Metal Prices	35 - 38
Mill Extraction and Estimated Average Assay	
Value of Concentrates	38 - 39
Estimated Value Per Ton of the Concentrates	40 - 41
Estimated Cost of Mining and Milling	41 - 43

VALUATION

44 - 45

EXHIBITS

“A” - Digest of Smelter Contracts	46 - 49
“B” - Calculation of Ore Reserves	50 - 107
“C” - Stope Map—Montana Mine	- 108
“D” - Assay Plan—Montana Mine Workings	- 109
“E” - Assay Plan—Montana Mine showing probable Ore body below 300 ft. level	- 110

BUILDING AND EQUIPMENT

FOR REFERENCE AND INSURANCE PURPOSES ONLY

SUMMARIES

111 - 112

PLAT PLAN

- 113

**SCHEDULE SHOWING BUILDING DESIGNATION
AND OCCUPANCY**

- 114

INVENTORY

MILL PROPERTY

LAND IMPROVEMENTS

- 115

INDUSTRIAL TRACKS

- 116

INDEX OF INVENTORY—VOLUME NO. 6

Pages

BUILDINGS

Construction	117 - 142
Well	- 143
Electric Lighting System	- 144

EQUIPMENT

Foundation for Machinery and Equipment	145 - 152
Machinery	153 - 175
Extra Machinery—Unusual but Useful	- 176
Shafting, Pulleys and Belting	177 - 185
Piping	186 - 188
Factory Furniture and Fixtures	189 - 195
House Furnishings and Store Fixtures	- 196
Telephone Line	- 197
Tents	- 198
Unused Machinery—Not Useful	199 - 200

CAMP PROPERTY

BUILDINGS

Construction	201 - 238
--------------	-----------

EQUIPMENT

Shafting, Pulleys and Belting	- 239
Piping	- 240
House Furnishings and Store Fixtures	241 - 249
Laboratory Equipment	250 - 251
Tents	- 252
Office Furniture and Fixtures	253 - 255
Automobiles	- 256

MINE PROPERTY

MINE TRACKS

- 257

LAND IMPROVEMENTS

- 258

BUILDINGS

Construction	- 259
--------------	-------

EQUIPMENT

Machinery	- 260
Piping	- 261
Miscellaneous Equipment	- 262
Haulage Equipment	- 263

AMADA, ARIZONA

RAILROAD SIDINGS

- 264

BUILDINGS

Construction	- 265
--------------	-------

EQUIPMENT

Foundations for Machinery and Equipment	- 266
Machinery	- 267

Page 2:

**REPORT ON MONTANA MINE
General Description And History**

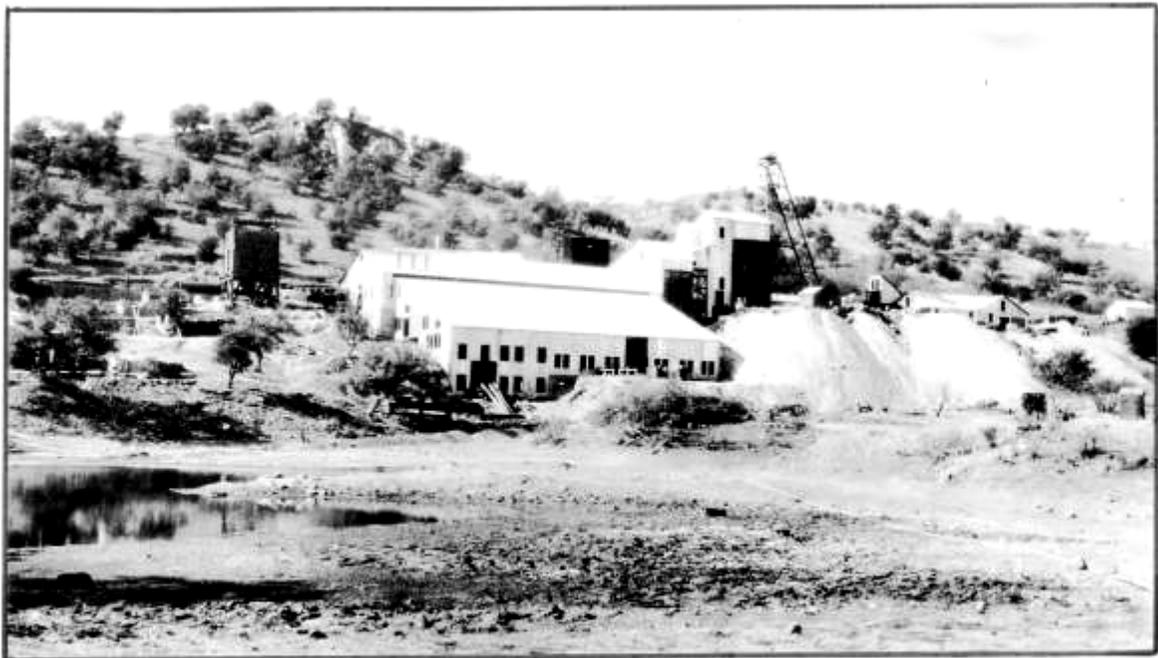
LOCATION: The Montana Mine is situated on the eastern edge of the Oro Blanco Mountains at an elevation of about 4,300 feet above sea level. It is in the Oro Blanco mining district, Santa Cruz County, in the southern part of Arizona about four miles north of the Mexican Border, and is thirty miles northwesterly of Nogales and eighty miles southwest of Tucson, Amado, a station on the Southern Pacific Railway, midway between Tucson and Nogales, is some 40 miles northeast of the mine and is reached over an excellent highway. The counties of Pima and Santa Cruz maintain the northern part of this highway while the mining company has recently spent a considerable sum on the southern part, adjacent to the mine, eliminating the heavy grades, Nogales as previously stated, is only 30 miles to the southeast, but the route leads over a precipitous mountain range where the many sharp turns and extremely narrow road bed prohibit heavy truck traffic. The nearest Post Office is at Arivaca, midway between the mine and Amado, but application has been made to the Post Office Department for a Postal Station at the mine to be known as Ruby, and it is expected that this station will be in operation shortly.

The mine is in a mining district in which there has been considerable activity in the past, although the tonnage of ore shipped was not great due to the complex nature of the ores **Page 4:** and the great distance from the railroad. To the north, about four miles distant, the Austerlitz Gold Mine was profitably operated for a number of years, while still farther to the north the Village of Oro Blanco was the scene of considerable activity many years past. Some three miles southwesterly is a gold area which was actively worked several years ago. The country is well mineralized for several miles to the south and west of Ruby, and there are a number of promising outcrops awaiting the prospector.

THE CLAIMS: The claims are 18 in number and consist of the Montana Group and the Gold Boulder Group, with a total area of 352.6 acres. The Montana Group comprises 13 claims, of which 10 are patented and 3 are held by location and annual assessment work. These claims are located along the crest of an east - west and southeast range of hills, extending down along the north and east sides and across the canyon. The Philadelphia Claim is along the outcrop of the Montana vein, and the mine workings extend into the Montana Dam Claim, while Mineral Claims 1 and 2 are located along the crest of the hill, The Eagle Claim was located this year to protect the water supply.

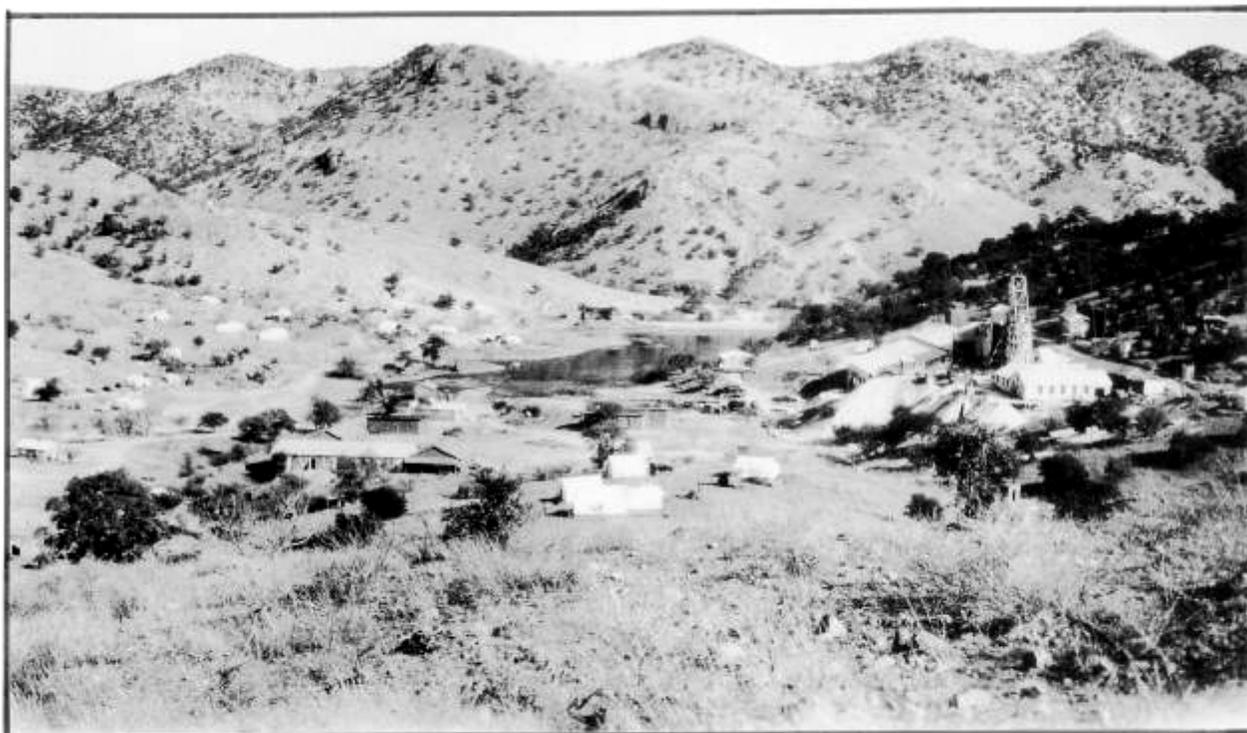
The Gold Boulder Group is located south of the Montana Group and on either side of California Gulch at the foot of Montana Peak, the highest mountain in this vicinity. These claims are all held by location and annual assessment work, The San Miguel Claim was purchased and the other four claims were acquired by location, primarily to protect the water supply, although an excellent showing has been uncovered in the Gold Boulder shaft.

Page 5:

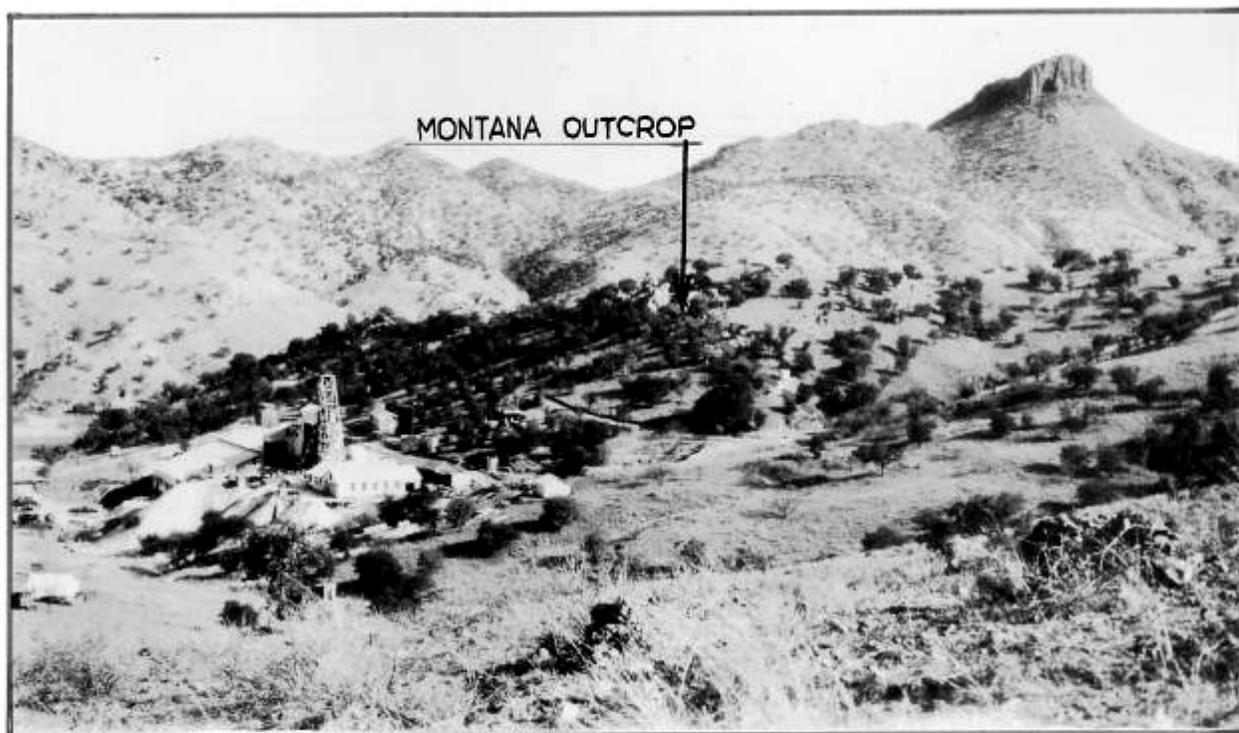


SURFACE PLANT AT MONTANA MINE
MINE DUMP IN FOREGROUND

Page 5:

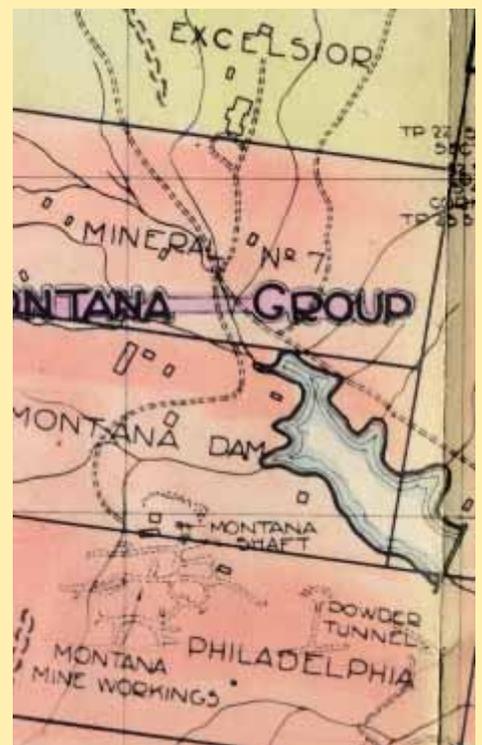
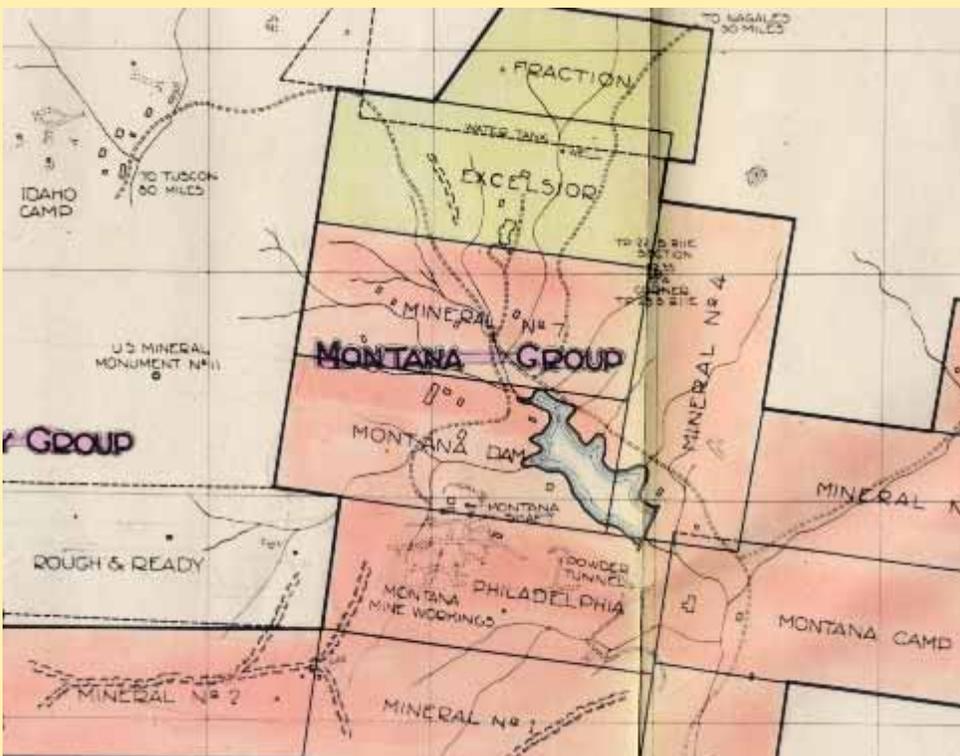
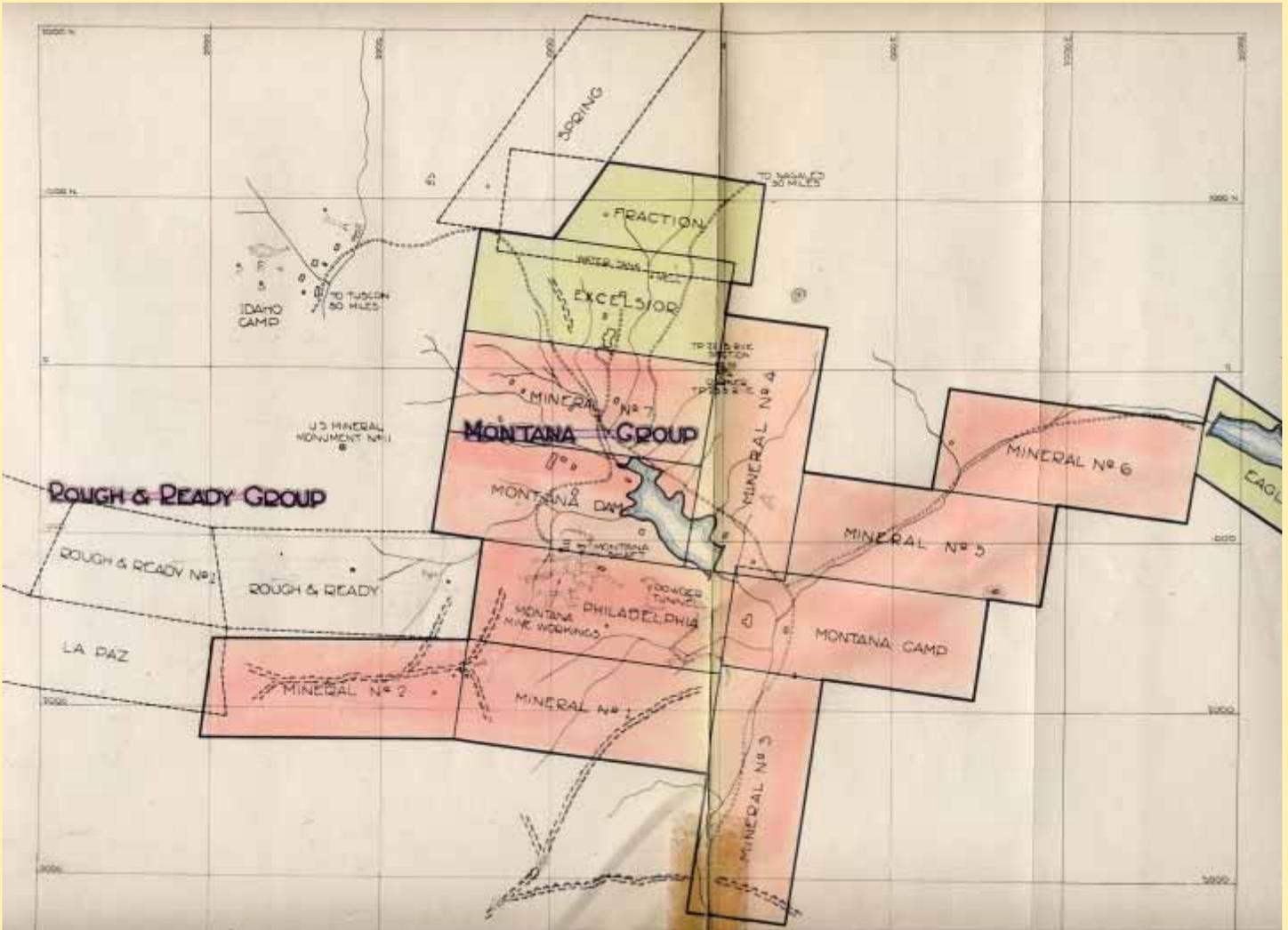


GENERAL VIEW OF MONTANA CAMP

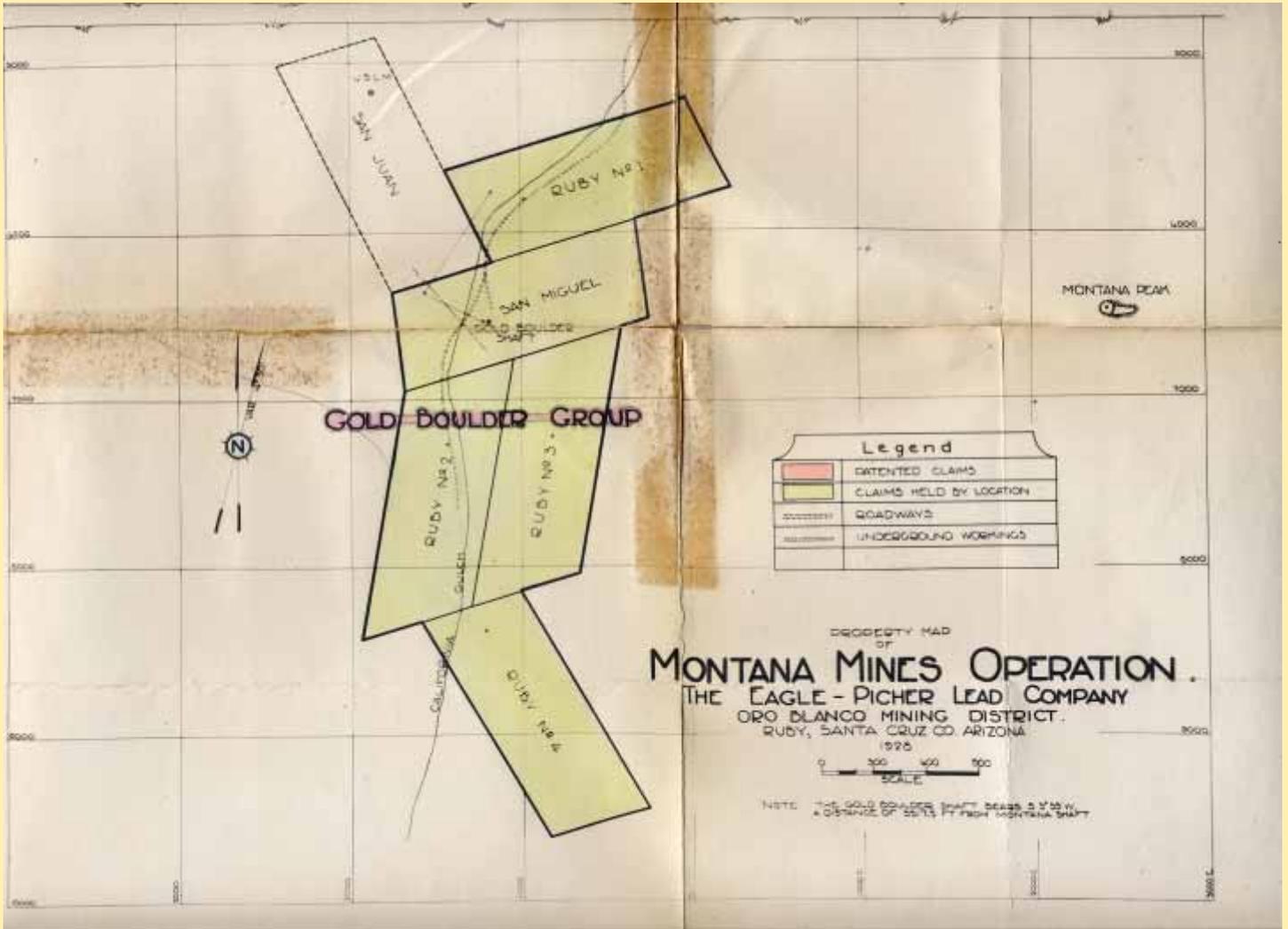


LOOKING EAST
MONTANA PEAK IN BACKGROUND

Page 3:



Page 3:



Page 6: **HISTORY:** The Montana Group of claims was originally located by Mr. L. Zeckendorf who retained title to the property until it was acquired by The Eagle-Picher Lead Company in 1926. The Philadelphia Claim was located in April, 1889, and in the following October Mineral Claims 1, 2, 3, 4, 5, 6 and 7 were added. In January 1892, the Montana Camp Claim was located, and in October 1894 the Montana Dam Claim was added. On April 12, 1907, a patent was issued to Mr. Zeckendorf covering all of these claims.

In 1891 George Cheney took an option on the property and built a ten stamp mill with concentration and pan amalgamation to treat the oxidized gold-silver—lead ores developed easterly from the present workings on the Montana vein, The mill did not prove successful and the option was given up in 1893. Ruins of the old mill are still to be seen on the property.

In 1909 Capt. McDermott and associates of Butte, Montana, took an option on the property. He is said to have spent some \$30,000 in development work, and to have developed approximately 30,000 tons of ore, assaying 12% zinc, 6% lead, 6 ounces of silver, and \$1.00 in gold per ton. Before the mine was sufficiently developed to warrant the construction of a mill, McDermott's funds ran low, and after trying to interest eastern capital without success, he gave up the option.

In 1916 Mr. J. M. O'Brien of San Francisco took an option on the property, forming the Montana Mines Company. Mr. O'Brien started construction of a mill but his funds ran out before completing the project and in 1917 his interest was transferred to the Goldfield Consolidated Mining Company. This company **Page 7:** completed the mill and during 1917 and 1918 mined and milled a considerable tonnage of ore. Mining was all above the 100 Foot Level, about 150 tons per day being produced. The vertical shaft had been sunk to the 200 Foot Level, the station cut, and a cross-cut extended about 80 or 90 feet south to intersect the vein, The mine foreman, Mr. Dan E. Lee, stated that at this point a body of quartz with stringers of lead, and zinc was cut and drifted on for about 200 feet to the east, the last 40 feet of which was stoped to a height of 40 feet. He stated that this body of ore was almost vertical and he did not believe it to be the same ore body that was cut on the 100 Foot Level. Subsequent development work by The Eagle-Picher Lead Company has proven that this ore body is not connected with the Montana vein but is one of numerous parallel veins in the hanging wall.

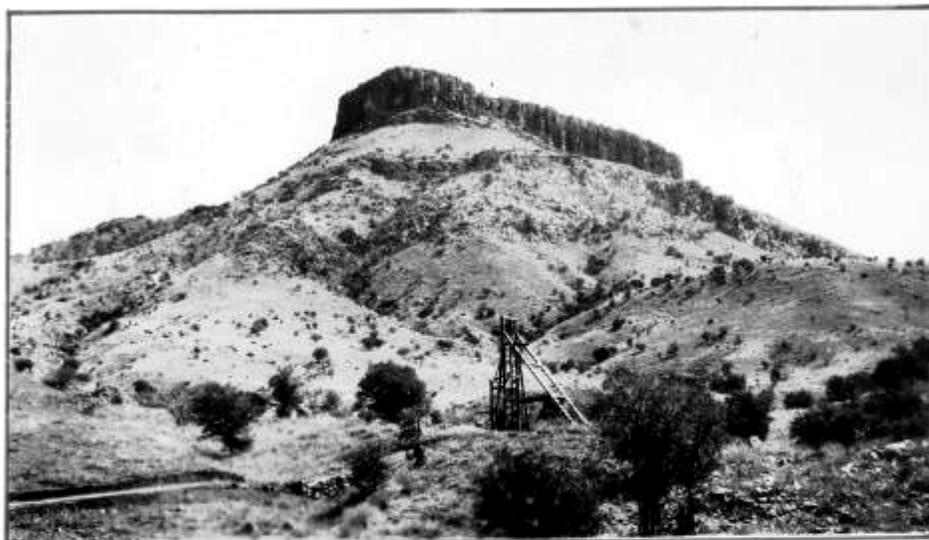
In mining the ore body above the 100 Foot Level only the higher grade ore was taken and much ore of lower grade was left in the stopes or placed on the dump, It is stated that only ore running 10% or better in lead, and 20% to 25% in zinc, was being handled through the mill. The company experienced difficulty in separating the lead and zinc and it is further stated that the tailings were running high in both lead and zinc content. The 1918 report of the company states that during the period of the option approximately 1,250,000# of lead, 1,300,000# of zinc, and 47,635 oz. of silver were produced as concentrates, The unsatisfactory condition of the metal market, the scarcity and prevailing inefficiency of labor, and the inability to meet a large payment coming due at this time forced the company to close the mine and mill and give up its option. It is stated that at the time of abandonment approximately 75,000 tons of ore were considered as developed above the 200 Foot Level.

Page 8: The property was idle until 1926 when an option was taken by The Eagle-Picher Lead Company, operating as the Montana Mines Operations. To date the shaft has been sunk below the 400 Foot Level and the station cut. The ore body on the 200 and 300 Foot Levels has been fully developed for a distance of 400 feet along the vein which has been developed or partially developed by diamond drilling to a depth of nearly 1000 feet below the 300 Foot Level. A 250 ton mill, using differential flotation, has been erected and will be placed in operation shortly.

TOPOGRAPHY DRAINAGE, AND WATER SUPPLY: The region is one of high relief with numerous steeped sided valleys and intersecting ranges of hills. Some of these hills attain considerable height, Montana Peak rising over 6000 feet above sea level, This peak is about 1 mile southeast of the Montana Mine and is visible from points distant as far north as Tucson. The region is arid or semi-arid and there are no permanent streams in the vicinity of the mine. The principle drainage is to the south, down California Gulch, which lies at the western base of Montana Peak. This is an intermittent stream flowing only during periods of wet weather, although water can always be procured from the stream bed in digging a few feet below the surface. Two stream channels, one flowing southeasterly and the other flowing southwesterly, unite at a point about 1000 feet east of the Montana shaft to form California Gulch. To the west about one mile another stream flows in a southerly direction past the Idaho Camp uniting with California Gulch at a point opposite Montana Peak.

Page 10: A dam has been placed across the southeasterly flowing stream at a point about 500 feet above the confluence with the southwesterly flowing stream, and immediately below the Montana Mine. About one mile up the southwesterly flowing stream on the Eagle Claim is another dam, These two dams were constructed by the Goldfield Consolidated Mining Co. to impound water for examination of the mine an unusually long dry period had existed., the upper pond on the Eagle Claim was nearly full, while the lower pond on the Montana Dam Claim was more than half filled. Altogether it was estimated that several million gallons of water were impounded. While these ponds will be ample during the wet season, there is grave doubt as to the sufficiency of supply during periods of extreme drought, and for this reason the Gold Boulder Group of claims in California Gulch were acquired. At a narrow point in the Canyon, immediately below the Gold Boulder shaft and at the base of Montana Peak, the company is at present constructing a dam to impound the waters of this gulch. This site will impound not only the waters of California Gulch but those of the stream flowing southerly past the Idaho Camp. This dam will also serve as a catch basin for the mill water. With these three dams it appears that the water supply for milling purposes should be ample. The water supply for drinking purposes is sufficient for a camp of several hundred people, all that will probably be located here. There are two deep wells, one north of the camp on the Excelsior Claim and the other to the east of the mine on the Montana Camp Claim in California Gulch. The water is pumped to steel tanks on the hills from whence is distributed by gravity over the entire camp.

Page 9:



HEAD FRAME AT GOLD BOULDER SHAFT
MONTANA PEAK IN BACKGROUND



MINERALIZED VEIN IN CONGLOMERATE
NEAR CONTACT WITH DIORITE
MINERAL NO 3 CLAIM



TERTIARY CAP ROCKS

WATER SUPPLY
IMPOUNDED ON EAGLE CLAIM

Page 11: GEOLOGY: GENERAL GEOLOGY: The Oro Blanco Mountains owing to their recent origin and to the very rapid stream entrenchment now going on, have an extremely rough topography. The mountains were formed during an active period of volcanism when thick beds of lava were laid down. These consist mainly of rhyolite and some andesite, interbedded with volcanic tuft. This volcanic capping was later broken up into a series of great fault blocks which were uplifted and tilted, forming the present mountains. The breaking up of the cap rocks necessarily affected the older basal rocks over wide areas. Erosion has subsequently stripped much of the original capping, leaving large areas of the basement rocks exposed and they are now being rapidly eroded.

The exposed basement rocks comprise a series of sedimentary rocks of the Mesozoic Era (Commanchean Series), together with igneous rocks of recent origin, and Pro-Cambrian granite, the latter being exposed over considerable areas to the west and south of the Montana Mine. Intruded into these formations are igneous rocks, mainly diorites dating back to both periods of active volcanism.

The Mesozoic Series of sedimentary rocks as reconstructed is believed to have a thickness of several thousand feet and is generally steeply tilted, dipping as a rule to the north. The strata are in segments duplicated by step faulting and shearing. The series consists of a coarse imperfectly bedded conglomerate **Page 12:** of great thickness, followed by strata of vari-colored shales, fine and coarse sandstones, and conglomerates. The main constituents of the conglomerate are igneous rocks of the intrusive and surface flow type, chiefly rhyolites, diorites, etc, with occasional quartzite boulders in a matrix of silica. As a whole the conglomerate covers wide areas, although generally it is badly cup up and shattered by infaulting with several large blocks of the diorite, and intrusive masses of other diorite.

The bedding of the conglomerate is obscure and very difficult to determine, but there are several excellent exposures of the overlying sedimentary series where the bedding can be studied to advantage. On the west side of California Gulch, above the Gold Boulder shaft, there is a considerable thickness of steeply dipping shale beds lying immediately under the rhyolite. An examination of the strata in several cuts in the hill showed a uniform strike to the northwest and a dip northeasterly at approximately 45°. The Gold Boulder shaft is in shale near the contact with the diorite. An examination of the shale beds in the bottom of the shaft shows them to have an east-west strike and a dip of 55° to the north. In a hill about two miles southwest of the Montana Mine, and immediately under U. S. Mineral Monument #2, there is a tunnel in the conglomerate. In this tunnel the conglomerate shows distinct bedding planes striking east west and dipping to the north at an angle of about 50°. At Oro Blanco, 4 miles northwesterly from the Montana Mine, there is an excellent expose of the overlying shale beds, several hundred feet in thickness, and extending over a considerable area. The beds strike in an east-west direction and dip about 25° to the north. All of these occurrences tend to **Page 13:** prove what had been previously noticed in the examination of the Montana Mine: namely, that the conglomerate beds appear to dip steeply to the north.

GEOLOGY OF THE MONTANA AND GOLD BOULDER CLAIMS: Examining the accompanying geologic map of the area covered by the Montana Claims, the basal rock is seen to be the Mesozoic conglomerate, which extends over a considerable area. Intruded in the conglomerate are two large blocks of diorite. The basin occupied by the townsite is largely covered by diorite, which is conspicuously porphyritic. Flanking the basin on the west, and extending south on both sides of California Gulch is the conglomerate. To the west, and intruded into the conglomerate, is a large body of light colored diorite which covers the Rough and Ready Claim and part of Mineral #2 Claim. Intruded into all of the older rocks are numerous narrow dikes (or so they appear) of diorite extending in several directions, although generally they appear to have a northwest-southeast trend. To the north and east of this area are the younger cap rocks, consisting mostly of rhyolites and tuffs (designated by a gray color on the map). Lying between the volcanic capping and the underlying conglomerate is a narrow fringe of the Mesozoic shales and shaly limes. These are not shown on the map, although they outcrop in a narrow belt along the edge of the cap rocks, immediately north of the dam. Farther south along the east rim of California Gulch the cap rocks have been eroded leaving thick exposures of the shales.

Examining the map, it will be seen that all of the intrusives in the area mapped are porphyritic diorites which appear to be differentiates of a common magma, probably originating from a **Page 16:** single deep seated reservoir. From a careful study of the development work in the Montana Mine, together with the lots of the diamond drill holes which have been put down, it has been possible to construct a section through the vein. It will be seen from a study of this section that the Montana Vein occurs wholly within the conglomerate, although near the contact with the diorite. Reflection will show that the occurrence of the Montana ore body is intimately related to the intrusion of the diorite. Not only is this true of the Montana ore body, but of other veins in this area as well. Farther west there are numerous siliceous outcrops which were examined. All of these were at or near the contact with intrusive diorites of this type, although some of the veins were in conglomerate and some in the diorite itself. From their nature these veins were probably formed by ascending volatile or fluid mineral solutions at or near the time when the intrusive diorites were active in forcing their way up through the older basal rocks. They belong to that class of deposits which are usually considered as being formed at intermediate depths below the surface.

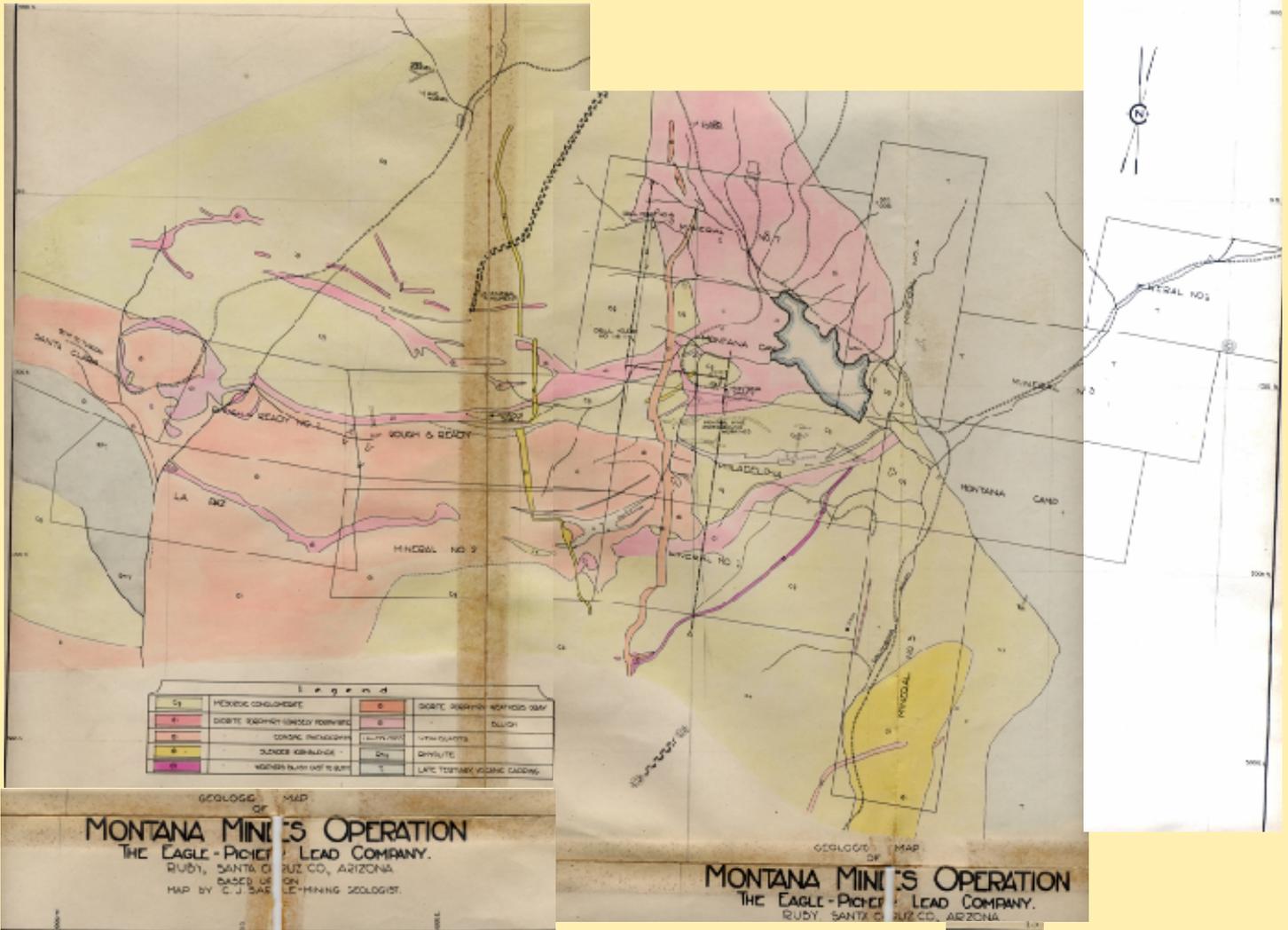
MONTANA VEIN: At the surface the Montana Vein manifests itself in a bold siliceous outcrop on the north side of the hill above the townsite. This ledge strikes north 75° east, and can be traced for a distance of several hundred feet along the ridge from the west side of the gulch to an intersecting ravine southwest of the shaft, at which point the mine is entered by tunnel. Here there is evidence of a fault striking North 55° East and dipping to the northwest at about 65°, no trace of the outcrop being visible beyond.

Page 17: The economic minerals forming the vein are galena, sphalerite, and tetrahedrite, the galena and sphalerite carrying varying amounts of silver and gold. The ore is amorphous, zinc and lead minerals being intimately associated. The gangue minerals consist mainly of quartz with some calcite. On the surface the exposed parts of the vein are oxidized and highly altered by leaching, the effects of which extend in depth only to the Tunnel Level.

The eastern part of the ledge, although differing little in physical appearance from the balance is barren of mineral content. There are some old workings in this part of the vein, consisting of several hundred feet of drift and a shaft 100 feet deep. These workings have been examined at different times and carefully sampled without showing more than a trace of metal.

The vein occurs along a strong fracture near the contact between the diorite and conglomerate, although wholly within the conglomerate. It has a well defined slickensided hanging wall and a fairly distinct foot wall; although in many places the mineralization

Page 14 & 15:



extends into the foot wall for a considerable distance, often to the contact with the diorite. In many places the conglomerate itself has undergone a great deal of alteration. The silicification is very marked almost up to the point of contact with the diorite, but in few cases has the diorite it-self been altered.

The vein as so far developed has shown a very consistent width of about 5 feet, widening out here and there to as much as 30 or 40 feet. There is a very large body of good ore above the **Page 18:** 100 Foot Level, in back of the main vein, and recent developments below the 300 Foot Level, by diamond drilling, have disclosed this same widening out of the vein. Drill Hole #11 shows a mineable width of nearly 18 feet and Drill Hole #12 shows a mineable width of 24 1/2 feet, while Drill Holes #8, 9 and 10 all show a width in excess of 8 feet.

The ore occurs in stringers and lenses and is not a true fissure vein. The stringers vary from mere coatings to bodies of pure sulphide several feet thick in the form of lenses. These lenses extend along the vein for some distance forming mineable bodies of ore. As developed thus far the vein is about 400 feet long on each level. It dips 40° to 60° to the north and has a very decided rake to the west, This rake is very pronounced in the ore body developed between the 200 Foot and 300 Foot Levels, and diamond drilling conducted below the 300 Foot Level indicates that the vein continues with the same decided rake to the west. It is interesting to note that there is a barren or nearly barren section of the vein extending through the heart of the ore body.

This barren zone has been encountered in the workings between the 100 Foot Level and the 200 Foot Level, and between the 200 Foot Level and the 300 Foot Level, and has been found by diamond drilling below the 300 Foot Level.

On the 100 Foot Level in the west end there is a strong fault striking North 30° East and dipping to the southwest 69°. There is evidence of movement with well slickensided walls. This fault corresponds in strike and dip with the fault on the surface at the entrance to the Tunnel Level. On the 200 Foot Level, although the drift has passed beyond the conglomerate into the porphyritic diorite, there is no evidence of the **Page 19:** fault. Neither is there any evidence of faulting on the 300 Foot Level, although this level has been developed beyond the limits of the ore body. A possible explanation of the faulting is that it is due to magnetic wedging which would manifest itself at or near the surface and with lessening effect as depth is attained, on account of the sudden release of pressure. Bearing in mind that the ore body itself probably is intimately related to the diorite intrusives, although the valuable parts of the vein occur only in the conglomerate, it appears unlikely that the vein has been cut off by faulting, but rather that the joining of the two wedges of diorite has eliminated the con-ditions for ore forming. That this is a plausible explanation is demonstrated on the 200 Foot Level in the west end where the vein has been followed beyond the contact. There is a contact here between two diorites which differ from each other only in structure such as would result from different stages of cooling of the magmas.

To the east on the 300 Foot Level the vein has been drifted on for some distance beyond the ore body with interesting results. Here the ore shoot ceases to be valuable at a point west of the shaft, although it continues for a long distance to the east. Near the east end there are stringers of white quartz with small amounts of galena. The entire complexion of the rock has been changed and it was noticed that the appearance was somewhat similar to that in the west end of the 200 Foot Level. Some specimens of the vein matter sent to Mr. W. Harold Tomlinson of Swarthmore, Pennsylvania, for examination proved to be "hydrothermal replacements of an igneous rock," probably diorite.

Page 20: Apparently magmatic wedging has accounted for the fading out or disappearance of the ore body on both the east and west ends. Magmatic wedging would also explain the extreme rake of the ore body to the west as well as the sudden fading of the vein in both the east and west ends of the mine. At any rate there seems little likelihood that the vein will make ore if it continues in the diorite, although it is possible that where the conditions, either east or west, become normal for ore occurrence,- or in other words where the conglomerate is wedged between masses of diorite, another ore body may be found. At the present time the ore body appears to be limited to a length of about 400 feet and a variable thickness from 6 feet to 20 or 30 feet, with a depth in excess of 1,500 feet, as shown by diamond drilling.

From the development work that has been accomplished so far it appears that there will be no decrease in value of the ore at depth. An average value obtained by sampling the cores from diamond drilling approximates closely the value obtained for the ores above the 300 Foot Level, with the possible exception of popper content which has increased somewhat at depth.

There is little or no difference physically in the appearance of the ore obtained at depth (cores obtained by diamond drilling) and that which is being mined above the 300 Foot Level. From this it is concluded that secondary enrichment is of little or no importance and that erosion has removed very little of the upper portion of the vein.

In addition to the main vein there are possibilities of developing small ore bodies in some of the systems of veins which are parallel to the main vein. On the 200 Foot Level, in the hanging wall of the vein distant some 90 feet from the shaft, one of these parallel veins was encountered in the mining work **Page 21:** conducted by the Goldfield Consolidated Mining Company. It is understood that several hundred tons of excellent milling ore were stoped at this point. Some of these parallel veins were intersected in diamond drilling and the logs of the holes show some good widths of ore. It is highly probable therefore that in future development a few of these veins will be encountered and mined at a profit.

PROSPECTS: There is an interesting prospect on the Gold Boulder Group of claims that warrants development. While claims were acquired for the purpose of protecting the water supply, sampling has disclosed some good values, especially in gold and silver.

The old shaft on the property has been cleaned out and re-timbered and is bottomed at present at about 150 feet. The shaft is in shale or shaly lime near the contact with the diorite. The shale is highly altered by silicification, At about 50 feet below the collar of the shaft a siliceous vein was encountered containing zinc and lead in a quartz gangue. The vein strikes North 70° west and dips to the north at an angle of 70°. It is about 3 feet wide with a good foot wall and hanging wall, At 80 feet below the collar of the shaft a cross-cut has been driven northerly from the shaft to intersect the vein. Here the vein has been drifted on for a distance of about 50 feet east and west from the cross-cut and shows a fairly consistent width, but the values are spotty. This same vein has been drifted on at about

65 feet below the collar of the shaft and shows a width in excess of 2 feet.

Several samples taken across the vein in the most promising places, assayed as follows: **Page 22:**

	Au. Oz. per Ton	Ag. Oz. per Ton	Pb. Percent	Zn. Percent	Cu. Percent
Roof-drift at 80' depth	0.88	17.0	18.80	21.80	0.30
Face-foot drift at 60' depth	0.04	3.3	5.80	4.70	-

On the surface there is an outcrop southeast of the shaft and this is probably the same vein. A sample of material from this outcrop ran 63.2 oz. of silver with a trace of gold. On the dump some excellent specimens of ore were secured. A selected sample of this ore assayed as follows:

Au. Oz. per Ton	Ag. Oz. per Ton	Pb. Percent	Zn. Percent	Cu. Percent
1.23	30.4	10.9	18.7	0.55

Oxidization has not extended to any great distance below the surface, as sulphide minerals are encountered in the shaft at a depth of 25 feet. The ore so far encountered in the workings appears to be similar to the ore in the Montana Vein and should be easily concentrated along with that ore.

On the Mineral #3 Claim there is a strong outcrop on which some work has been done in the past. This is on the east side of California Gulch and is in conglomerate in contact with the diorite. A photograph of this vein is included with the report. The vein is two feet wide, striking North 14° East and dipping 80° to the east. This vein has been drifted on for about 30 feet and a 20 foot shaft has been sunk on the vein. A sample of the material on the dump assayed as follows:

	Au. Oz. per ton	Ag. Oz. per ton	Pb. Percent
Selected dump material	0.02	2.80	14.50

Page 23: The workings are in the oxidized zone and show traces of copper. Not enough work has been done on this claim form which to draw conclusions as to its possibilities. This is probably on of the numerous intersecting veins which occur on the property.

Page 24:

MINE EXAMINATION

DEVELOPMENT: Development work has so far been confined to developing the ore body on the Montana Vein. Local assessment work has been performed on the unpatented claims together with the shaft work previously described as being carried out on the Gold Boulder Group, but no orderly development program has been worked out for these claims. The description of the development work is here confined entirely to work on the Montana Vein.

Prior to the acquisition of the property by The Eagle-Picher Lead Company and as reported by Sill & Sill, Engineers, underground drifts, shafts, and connecting raises aggregated some 2,375 feet, 1,240 feet of which were in ore, 225 feet consisting of the vertical shaft, and 250 feet in cross-cuts from the shaft to the vein. Winzes in ore aggregated 250 feet, and 250 feet of workings were driven east and west of the ore body along the vein on the 100 Foot Level in search of ore. The Main Tunnel Level was driven 250 feet along the vein, and above this level the ore body was stoped for a distance of 250 foot. Above the Tunnel Level the ore body averaged 30 to 10 feet wide and the stopes had broken through in several places to the surface. Above this level a fairly large block of oxidized ore remains. Between the 100 Foot Level and the Tunnel Level several thousand tons of ore have been removed, but there remains a fairly large block of good ore. Pillars left in mining and stopes yet to be mined aggregate about 13,000 tons and In the foot wall back of the original stopes there is a very large block of excellent ore, some of which has **Page 25:** been broken and remains in the stopes. On the 200 Foot Level the station had been cut and a cross-cut driven toward the vein. It is understood that the vein had not been cut on this level although at a point 80 feet from the shaft a considerable body of good ore had been mined. The remains of this old stope are in evidence at this time.

Since the mine was acquired by the present company a large amount of development work has been completed and a considerable tonnage of ore has been blocked out. A new steel head frame has been erected over the shaft and the three compartment shaft has been re-timbered and sinking has been completed to the 400 Foot Level, Stations have been out on the 300 Foot Level and the 400 Foot Level and ore pockets have been completed on both the 200 Foot Level and the 300 Foot Level. New equipment has been placed in the shaft, combination cages and skips being installed to handle the ore and supplies. On the 200 Foot Level a cross cut was completed to the vein and the vein has been drifted on to the east and west. Approximately 600 feet of drifting has been completed on this level, 400 feet of which is in ore, the balance being east and west of the ore body. A raise has been completed to the 100 Foot Level in the ore body. On the 300 Foot Level about 800 lineal feet of drifting on the vein has been completed, together with about 150 feet of cross-cut into both hanging and foot walls, Approximately 400 feet of drift was in ore of good milling grade, the balance being driven east of the ore body. Two raises have been completed to the 200 Foot Level in the ore and a third is being driven on the west end.

The development work has so far disclosed above the 300 Foot Level an ore body of average stoping width in excess of 5 feet and a length of over 400 feet. The grade of ore on the 300 Foot **Page 26:** Level, while somewhat lower than that above this level, is relatively high in value and shows no tendency to decrease in value of the gold, silver and lead content.

In addition to the development work by shaft sinking and drifting, 14 diamond drill holes have been completed, 12 of which intersected the vein at depth below the 300 Foot Level. The deepest hole, #14, intersected the vein at a vertical depth of approximately 950 feet below the collar of the shaft, or a distance of 1,550 feet below the outcrop on the plane of the vein. All of the drill bores, with the exception of #2, were in good ore, and although there has existed a lean area above the 300 Foot Level absence of good ore in these two diamond drill holes is not disturbing. Four of the drill holes have shown a stoping width of from 16 feet to 24 feet, and all of them, with the exception of #1 which is probably on the extreme edge of the ore body, have shown a stoping width in excess of 4 feet. The assayed maps of the mine show all of the development work that has been completed to date as well as tonnage estimates and average values of the ore body.

METHOD OF MINING: The ore body as developed has shown an excellent hanging wall and a fairly good foot wall. The hanging wall in the old stopes is in excellent shape and shows no signs of sluffing although the property was idle for more than eight years. The cost of filling the stopes is prohibitive, due to the value of the ore body, and a mining method must be adopted which will dispense with this item. From a study of the ore body it would appear that underhand or overhand stoping, or a combination of the two, could be adopted in mining the ore. Owing to the limited extent of the ore body, **Page 27:** underhand stoping would probably be more economical as it requires less space laterally for operations, although there are some disadvantages in this method of mining.

The dip of the vein is riot quite steep enough to permit broken ore to run freely and mechanical means must be resorted to, to remove the ore to the chutes. A scraper hoist has been purchased for this purpose. In mining the ore body little timbering will be necessary although stulls must be left at regular intervals to support the roof.

The extreme rake of the ore body to the west is a decided disadvantage in mining and will prove costly. The present vertical shaft will be at a considerable distance from the ore body at the 500 Foot Level so that even on this level the cost of cross-cutting and drifting from the shaft to the ore body will be a large item in the total mining cost on this level.

In mining the ore bodies below the 500 Foot Level either a new shaft west of the present shaft must be sunk or a winze must be sunk from the 500 Foot Level and used in combination with the present vertical shaft. If a new shaft is sunk this must, of necessity, be a vertical shaft since the company does not own the adjoining Rough and Ready Claim where the incline shaft either in the hanging wall or foot wall would have to be started. Sinking a winze from the 500 Foot Level in the plane of the vein or in the hanging wall from a point in the extreme west end of the ore body on this level would be much cheaper in first cost, although there would be a decided difference in the operating expenses due to the hoisting and extra handling costs.

SURFACE PLANT: The Eagle-Picher Lead Company is constructing a 250 ton flotation mill on the property, and at the **Page 28:** date of examination construction work was nearly complete and all of the machinery was on the ground and most of it erected. The Power House, Mill Building, Blacksmith end machine Shop, and Hoist House are of wood frame construction with corrugated iron roof and siding. The dwellings and miscellaneous structures are all of abode, which is a very satisfactory material for this purpose. A detailed inventory of all the physical property at the mine has been completed and is included as a part of this report for reference and insurance purposes.

The Power Plant consists of Fairbanks Morse Diesel engines in 60 H.P. units, A 360 H.P. engine drives the mill and in addition is belted to a small generator to furnish lights and miscellaneous power during the day time, A 180 H.P. engine is belted to an 888 Cu. ft. capacity air compressor to furnish air for the mine. A 60 H.P. engine is direct connected to a generator furnishing light and power at night. A 120 H.P. engine is used on the crusher end of the mill. At the present time a 60 H.P. engine is direct connected with the mine hoist but the management in-tends to substitute a 120 H.P. engine direct connected to a generator for this very shortly.

A completely equipped machine shop, in which provision has been made for doing and overhauling and repairing on most of the mining and milling machines, is operated together with a black-smith shop provided with oil burning furnace and drill sharpener. An unusually complete assay laboratory has been installed, in which provision has been made for the determination of almost any type of ore to be found in this section. The latest type of oil burning furnace, electric hot plates, and modern grinding machines, together with excellent weighing apparatus has been provided.

Page 29: Progress has been made in reconstructing the old camp dwellings to make them habitable. During the present construction period many families are being housed in tents of temporary nature but as construction progresses the number thus housed decreases gradually. It is expected that when construction has been completed and the necessary tuning-in period has been passed, it will be necessary to construct ten additional dwellings to house the permanent population.

A modern store operated by the Ruby Mercantile Co. provides for the needs of the population, food stuffs, clothing, and supplies being available at very reasonable prices considering the location. School facilities are provided by the County of Santa Cruz, two small buildings at present being used for that purpose. As soon as the population is stabilized, better facilities will be provided by the county. An adequate water supply has been provided to meet the needs of the community and negotiations are now being conducted with a responsible company looking toward the operation of a bus line on a daily schedule between Tucson and the mine.

FLOW SHEET OF MILL: The mill is designed to treat 250 tons of ore in 24 hours and consists essentially of reduction in jaw crushers, followed by further reduction in rolls, jigging to eliminate some of the gangue material, followed by tabling and differential flotation, the final products being both a lead concentrate and zinc concentrate.

The product of the jaw crusher is sized by trommel screen with perforations set to one half inch, oversize being returned to **Page 31:** a set of 42" rolls. Further sizing is accomplished in two 4 x 5 Leahy vibrating screens set to minus 2 1/2 M.M. oversize going to 2 - 36" high speed rolls. The fines are sent to a belt declaimer, the slimes going to a 50' Dorr thickener, while the coarse material is sent to a Hartz jig. The principal object of the flow sheet in the flow sheet is to reduce the amount of material to be treated by elimination of gangue material.

The middling product of the jig is sent to a storage bin of 150 ton capacity from whence the material is returned to 8 launder classifiers. The classifiers produce slimes which are sent to a belt drag deslimer and coarse aggregate which is sent to 8 Shackelford tables. The tables produce a coarse lead concentrate, a middling product containing lead and all of the zinc, and a tailing product which is sent to the tailing pile. Middlings are sent to a belt drag deslimer operated in closed circuit with a Hardinge ball mill. The slimes produced in the belt drag deslimer are sent to a 50 foot Dorr thickener, together with the slimes previously obtained on the other belt drag deslimer. The product of the 50 foot Dorr thickener goes to two Butchart flotation machines. Those are lead cleaners producing a lead concentrate, which, after dewatering and filtering, goes directly to the lead concentrate bins, and a tailing which is sent to two Butchart flotation machines, used as lead roughers. The lead roughers produce a froth which is returned to the lead cleaners and a tailing which is sent to two Butchart flotation machines for zinc treatment. These machines are zinc cleaners producing a zinc concentrate, which after dewatering and filtering, goes directly to the zinc concentrate bins, and a tailing which is sent to zinc roughers consisting of two Butchart flotation machines. The froth from **Page 32:** the roughing machines is returned to the zinc cleaners, tailings being sent to the tailing pile. The tailings are to be disposed of by pumping them over the hill to the southeast and depositing them in California Gulch. The water from the tailings will drain into the gulch where it will be caught by the lower dam below the Gold Boulder shaft.

LABOR SUPPLY: During the period of development the company has at no time experienced any difficulty in securing sufficient skilled labor for mining, although labor for the mill construction was imported to a large extent, Production in the great copper mines of the southwest has been curtailed to some extent during the past few years and as a consequence skilled miners have been obtainable in nearly all the mining camps of the southwest, irrespective of location.

The management provides at a reasonable cost excellent table board and good clean accommodations for all single men and good houses for families at a normal price, and those factors no doubt tend to keep the employees satisfied. The turn-over, therefore, has been limited in spite of the disadvantageous location of the property.

Mexican labor is available and can be used to a considerable extent. Experience has shown that where treatment is fair and proper provision has been made for their comfort and well being, the Mexican miners are steady and dependable. If the great mines of the southwest should absorb the present surplus of labor, so as to materially affect the situation at the :Montana Mine, it is believed that this Mexican labor would be available and could be used in relieving any temporary shortage.

Page 33: The present scale of wages posted by the company is as follows:

	<u>Per Shift</u>
Underground -	
Miners-machine men	\$ 5.00
Timber men	5.25
Timber men-helpers	4.50
Muckers	4.50
Shift bosses	6.00
Pipe and track men	5.25
Pipe and track men-helpers	4.50
Shaft men	5.50
Surface -	
Hoist operator	5.80
Top man	4.00
Blacksmith	5.80
Blacksmith—helper	4.50
Carpenters	5.25
Shop mechanics	5.25
Shop mechanics-helpers	4.00
Common labor (Mexican)	3.50
Mill—	
Flotation operator	5.00
Table man	5.00
Crusher men	4.50
Common labor	4.00
Power Plant -	
Operator	5.80
Oilers	4.50

TONNAGE ESTIMATES AND ORE VALUES: The mine was carefully sampled by employees of The Eagle-Picher Lead Company under the direction of Mr. F. H. Lerchen, Manager of the property. This sampling included all of the old mine workings as well as recent development work, and all of the samples taken are indicated on the assay maps which are included with this report. The samples were taken at regular intervals, usually 5 feet apart, in all sections of the mine and were cut with hammer and moil. All of the sampling above the 300 Foot Level, and some of the sampling on the 300 Foot Level, had been completed prior to the arrival of the examining engineer of The American Appraisal Company. The location of these samples were verified and additional check samples were taken, These check samples **Page 34:** are shown on the assay plans of the mine designated by the letter “A” The balance of the development work on the 300 Foot Level and some of the raise work was sampled in March 1928 by em-ployees of the company at the direction of the examining engineer.

Most of the assay work was performed by Critchett & Ferguson of El Paso although all recent work has been carried out at the mine by the assayer in the employ of The Eagle-Picher Lead Company. Surveys and base maps were prepared by the Engineering Department of the Montana Mine and Corrections and additions have been made by The American Appraisal Company. All calculations as to average grade and tonnage of ore have been made and checked by the examining engineer of The American Appraisal Company.

The tonnage of ore on the mine dump was computed from surveys made by the engineer of the Montana Mine and is believed to be conservative. The mine dump was carefully sampled by trenching and the results are believed to be reasonably accurate. The tonnage of ore reserves in the mine was determined on the basis of 12 cu. ft. to 1 ton of ore in place. The contents in cubic feet of the various blocks were obtained by measurement and are believed to be conservative. In determining the contents, the average thickness of the ore body was based upon the average thickness obtained by the sample cuts. The grade of ore has been determined in each Case by weighting the assays and widths. In summarizing, the average values of the blocks, and - in turn—the average values of the levels, have been weighted in order to arrive at the average content. Calculated ore reserves above the 300 Foot Level have been blocked on all sides and are classed as “Assured Ore” while those below the 300 Foot Level are classed as “Probable Ore”. The details as to the calculation of the **Page 35:** average grade and tonnage of the ore, summarized by Levels, are shown wider Exhibit “A”. The average value and tonnage of ore as arrived at is given as follows:

<u>ASSURED ORE</u>						
	Content (Tons)	Gold Oz. per Ton	Silver Oz. per Ton	Lead %	Zinc %	Copper %
Above 300 Foot Level	94,052.7	0.061	5.98	5.05	7.16	0.24
<u>PROBABLE ORE</u>						
Below 300 Foot Level	<u>207,145.0</u>	<u>0.061</u>	<u>8.20</u>	<u>5.40</u>	<u>6.10</u>	<u>0.34</u>
Grand Total	301,197.7					
Grand average		0.058	6.13	5.29	6.43	0.31

Based upon an average production of 200 tons of ore daily the ore reserves are sufficient to insure the operation of the mine and mill at capacity for a period of six years.

METAL PRICES: There has been a decided slump in the metal market during the past year and a half, - lead, zinc, and copper in 1927 reaching the lowest figure since 1922; while silver was lower in 1927 than it has been at any time since the outbreak of the World War. Many reasons have been cited as to the cause, chief among them being overproduction, and a falling off of the European consumption. This is especially true of copper, lead, and zinc. Increased production in Mexico and decreased demands in India are probably responsible for the low price of silver.

Page 36: The world’s consumption of lead and zinc, while increasing, has not kept pace with production, The world’s known resources of lead are not very great, although the known resources of zinc are enormous. The recent success is concentration of the complex lead-zinc ores of the western states, and consequent construction and operation of the electrolytic zinc plants there, has undoubtedly contributed greatly to the depression in the zinc industry and has also affected the lead industry since lead and zinc are intimately associated.

The producers of the western ores are not altogether dependent upon the lead and zinc market since most ores contain appreciable amount of gold and silver as well as other base metals, thus justifying the operation of the mines even when the lead and zinc prices decline below the present prices. With production in the Tri-State District at the high rate that it was during 1927, a serious slump was caused in the industry. There has been a decided falling off in production in this field recently, due in part to curtailment of production, and in part to depletion of the mines, so that without any new discoveries in the field of major importance production here is expected to exert only a declining influence on the metal prices in the future. While recent literature on the subject of lead and zinc has been decidedly pessimistic, the future at this time, (May 1928) appears brighter than at any time since the middle of 1927. Lead appears to be holding its own, and zinc has advanced in price to where it is nearly equal to the average price for the year 1927.

Copper has been increasing steadily in price since the latter part of 1927 and is now (May 1928) higher in price than the average for any previous year since 1923. There has been a **Page 37:** decided increase in foreign consumption and the indication are that the price is likely to remain above 13.50¢ rather than below that figure in the future.

Silver took a decided slump in price in 1927, the average price being lower than at any time since the beginning of the world war. This was due in part to a decided increase in silver production in Mexico and again to the recently adopted policy of the Indian Government in reducing the silver reserves of the country. This expected decrease in consumption in the future will be offset to a certain extent by the expected increase in consumption of silver for coinage purposes. During the past few years there has been a decided shortage of silver coins and it is evident that very shortly a large amount of silver throughout the world must be purchased to supply this deficiency. Since the first of the year silver prices have advanced materially so that the present price (May 1928) is above 60.0¢ per ounce, or nearly four units above the average price for the year 1927. There has been a decided increase in the consumption of the metal in India in spite of the announced intention of the Indian Government to keep down the reserves. Indications are that the prevailing price in the future will be higher than the present price, rather than lower.

The average prices for silver, lead, zinc, and copper by years from 1918 to 1927 inclusive, together with the present prices, are given below:

	SILVER Handy & Harmon N.Y.C.	LEAD A.S. &R. N.Y.C.	ZINC St. Louis	COPPER E.&M.J. (Electro lytic)
1918	96.78	7.46	8.04	24.68
1919	111.12	5.81	7.04	18.90
1920	100.90	8.08	7.77	17.50
1921	62.65	4.55	4.67	12.65
1922	67.52	5.71	5.74	13.56
1923	64.87	7.25	6.68	14.61
1924	66.78	8.08	6.35	13.16
1925	69.06	9.02	7.66	14.16
1926	62.11	8.42	7.37	13.93
1927	56.37	6.75	6.25	13.05
April 1928	57.397	6.10	5.76	13.986
Average last 10 years	75.82	7.11	6.76	15.62
Average last 9 years	73.49	7.07	6.61	14.61
Average last 8 years	68.78	7.23	6.56	14.08
Average last 7 years	64.19	7.11	6.39	13.59
Average last 6 years	64.46	7.54	6.67	13.74
Average last 5 years	63.84	7.90	6.86	13.78

Page 38:

The average prices for the past seven years, eliminating, as they do, the high prices prevailing immediately after the world war and including some although not all of the low prices obtaining during the post-war period of depression, are believed representative of what can be expected in the future. These prices have therefore been adopted in this report in determining ore values. The prices are;

Sliver	64.19¢ per oz.
Lead	\$7.11 per 100 pounds
Zinc	6.39 per 100 pounds
Copper	13.59 per 100 pounds

MILL EXTRACTION AND ESTIMATED AVERAGE ASSAY VALUE OF CONCENTRATES: The ores of the Montana Line have been tested by a number of well known metallurgical engineering firms and all are agreed that the ore lends itself to flotation concentration quite readily and with excellent results. These companies and individuals include the following signed reports of their tests being available for use.

Page 39:

Southwestern Engineering Co., 1221 Rollingsworth Bldg., Los Angeles, Calif.
 General Engineering Co., Salt Lake City, Utah
 Minerals Separation North American Corporation, 220 Battery St., San Francisco
 Arthur Crago, 305 Santa Fe St., El Paso, Texas

Date of Report
 April, 1927
 April, 1927
 April, 1927
 January, 1927

All of these tests show a relatively high extraction and both the lead and zinc concentrates are high grade.

Based upon the results obtained in these several tests it is believed that the lead and zinc concentrates produced at the Montana mill should assay about as follows:

Lead Concentrates

Pb.	60%	Containing	90%	of the lead in the ore
Zn.	10%	Containing	12%	of the zinc in the ore
Au.	.585 oz.	Containing	80%	of the gold in the ore
Ag.	50.2 oz.	Containing	65%	of the silver in the ore
Cu.	2.74%	Containing	70%	of the copper in the ore

Zinc Concentrates

Zn.	55%	Containing	80%	of the zinc in the ore
Pb.	2.84%	Containing	5%	of the lead in the ore
Au.	0.124 oz.	Containing	19%	of the gold in the ore
Ag.	16.4 oz.	Containing	25%	of the silver in the ore
Cu.	0.50%	Containing	15%	of the copper in the ore

To produce concentrates of this grade and with this average mill extraction from the grade of ore in the mine, the ratio of concentration must be 5.8; one ton of lead concentrates being produced from 12.6 tons of ore, and one ten of zinc concentrates being produced from 10.7 tons of ore. From the 301,197.7 tons of ore in the mine, concentrates should be produced in the following amounts:

Lead concentrates	23,915.1 tons
Zinc concentrates	28,162.0 tons

Page 40: ESTIMATED VALUE PER TON OP THE PER TON OP THE CONCENTRATES: The Eagle-Picher Lead Company through Mr. Lerchen, western manager has executed contracts as of the date March 16, 1928 with the American Smelting and Refining Company, El Paso Branch, for the sale of lead concentrates produced at the mine, and with the United States Zinc Company, Sand Springs, Okla. for the sale of zinc concentrates at the Amarillo smelter. Digests of each of these contracts, together with freight rates applying on the concentrates, are included as a part of this report.

Based upon those contracts, and applying the metal prices previously determined, the lead and zinc concentrates produced should net The Eagle-Picher Lead Company the following prices per ton f.o.b. mine: **Page 41:**

Lead Concentrates		Zinc Concentrates	
Lead - assaying 60%		Zinc - assaying 55%	
60% less 1 1/2% x 2000# = 1170# lead		80% of 55% x 2000 = 880# net	
1170# x 95% less 2.286 x 8		880# @ (.0639 less .0029) =	\$53.68
(deduct for copper) = 1093.2# net			
1093.2# @ (.0711 less .014) =	\$62.42		
Zinc - assaying 10%		Lead - assaying 2.84%	
Free up to 12%		65% of 2.84% = 1.85% net	
		1.85% less 1.50% x 2000# = 7# net	
		7# @ (.0711 less .0150) =	0.39
Copper - assaying 2.74%		Gold - assaying 0.124 oz. per ton	
90% of 2.74% = 2.466%		65% of 0.124 = .0806 oz. net	
2.466% x 2000# = 49.32#		0.806 oz. @ \$19.00 =	1.53
49.32# @ (.1359 less .030) =	5.22	Silver - assaying 16.4 oz. per ton	
		85% of 16.4 = 10.66 oz. net	
Gold - assaying .585 oz. per ton		10.66 oz. @ \$.6419 =	6.84
.585 oz. @ \$20.00 =	11.70	Copper - assaying 0.50%	
Silver - assaying 50.2 oz. per ton		No payment	----
95% of 50.2 = 47.69 oz. net			
47.69 oz. @ \$.6419 =	<u>30.61</u>	Total value per ton	\$62.44
Total Value -	\$109.95	Deductions -	
Deductions -		Treatment	
Treatment	2.00	Base charge	\$22.00
Freight & Transportation		Residue "	<u>5.50</u> \$27.50
Ruby to Amado, Ariz.	\$4.50	Freight and Transportation	
Amado to El Paso, Tex.	<u>5.50</u>	Ruby to Amado, Ariz.	4.50
		Amado to Amarillo, Tex.	<u>7.00</u> <u>11.50</u>
Total	<u>10.00</u>	Total Deductions	<u>39.00</u>
Total Deductions -	<u>12.00</u>	Net Value of Concentrates per ton f.o.b. mine	\$23.44
Net Value of Concentrates per ton f.o.b. mine	\$97.95		

ESTIMATED COST OF MINING AND MILLING: The Montana Mine has not been operated as yet by The Eagle-Picher Lead Company, except for development work, and no records are available either as to the cost of mining or milling. It is understood, however, that when the mine was operated by the Goldfield Consolidated Mining Company that "ore was put into the mill at \$2.25 per ton," according to the statement of Mr. Dan E. Lee, mine foreman, Mr. Gundry, the present mine superintendent, estimates that the cost of mining including normal development charges should not exceed \$2.75 per ton.

Page 42: Careful estimates have been prepared in detail as to the cost of mining and milling, which recognize that as depth is attained in the mine the cost of mining will increase proportionately, and the development expense will increase materially. These estimates were based upon a production of 200 tons of ore daily which is believed to be near the capacity of the mine. The estimated costs have been checked against published costs for metal mines of similar character and are believed to be liberal and in accordance with the facts developed. The estimated cost of milling has been carefully checked against published costs for other mills of this type and is believed to be ample.

The estimated costs per ton of ore for mining, milling and over-head are as follows:

	Cost Per Ton			
	Mining	Milling	Overhead	Totals
Ore on Dump	\$.35	\$1.60	\$.57	\$2.52
Ore above 300 Ft. Level				
Ore Broken in Stopes	.85	1.60	.57	3.02
Ore Not Broken	2.05	1.60	.57	4.22
Ore between 300 Ft.				
Level and 500 Ft. Level	2.45	1.60	.57	4.62
Ore below 500 Ft. Level	2.70	1.60	.57	4.87

In mining the ore body blocked out it is believed that there will be some dilution, since the ore body in places is thin and an allowance of 10% has therefore been made for this condition. While there will be some loss in mining the ore reserves blocked out, it is believed that more ore will be mined from the stopes than it has been possible to block out at this time, so that no deductions in tonnage have been made for possible losses in mining. On the above bases, and with the 10% allowance for dilution, the average cost of production per ton of ore has been determined as follows:

Page 43: Item

		Cost Per Ton
Ore on Dump	5,300 tons @	\$2.52
Broken Ore	25,000	\$3.02
Ore not broken		
Above 300 Ft. Level	63,752.7 tons + 10% @	4.22
Between 300 Ft. and 500 Ft. Levels	40,000 tons + 10% @	4.62
Below 500 Ft. Level	<u>167,145 tons + 10% @</u>	<u>4.87</u>
	301,197.7 tons @	\$4.93

Page 44: VALUATION

The net profit, before depreciation and depletion, accruing to The Eagle-Picher Lead Company in mining and milling the 301,197.7 tons of ore reserve blocked out has been determined by deducting the estimated cost of mining and milling from the gross value of the ore reserves. The detailed computations are given below:

	Total	Per Ton
Ore Reserves Blocked Out	301,197.7 tons	
Gross Values of Reserves		
Lead Concentrates 23,915.1 tons @ \$7.95	\$2,342,484.05	\$7.78
Zinc Concentrates 28,162.0 tons @ \$23.44	<u>660,117.28</u>	<u>2.19</u>
Total -	3,002,601.33	9.97
Deductions -		
Estimated Cost of Production 301,197.7 tone @ 4.93	<u>1,484,904.66</u>	<u>4.93</u>
Anticipated Net Profit	\$1,517,696.67	5.04

On the basis of a normal operating period of six years for the mine, the average annual net profit is equivalent to \$253,000.00.

Over and above the value of the net receipts determined for the ore reserves blocked out, an allowance has been made to cover the possibility of finding other ore bodies through additional development work in exploring intersecting and parallel veins to the Montana Vein, and in exploring the Gold Boulder Claims. Allowance has been made on the basis of the present worth of the net receipts from one year's additional operation amounting to \$95,000.00.

The value of the mine to The Eagle-Picher Lead Company has then been determined in the following manner:

Page 45:

Ore Reserves blocked out	301,197.7 tons
Estimated time required to deplete blocked reserves wider normal conditions	6 years
Est. additional period over which mine is expected to operate	<u>1 year</u>
Total remaining life of mine	7 years
Value of the mine to The Eagle-Picher Lead Company	
Present Worth of Net Receipts \$253,000,00 cap. @ 15% - 6 years	\$957,000.00
Additional Allowance for possible Ore Reserves	<u>95,000.00</u>
Total	\$1,052,000.00
Deductions -	
Estimated expenditures for completion and tuning in of the mill	<u>\$25,000.00</u>
Value of the Mine—	\$1,027,000.00

(ONE MILLION TWENTY SEVEN THOUSAND DOLLARS)

The sum obtained in the foregoing includes any value assignable to the physical property at this mine. If the value of the plant is to be considered, then the net value that may be reflected to Ore Reserves is determined as follows:

Total value of mine (as determined above)	\$1,027,000.00
Deductions:	
Sound value of physical property as determined by the appraisal	<u>313,382.87</u>
Not Value reflected to Ore Reserves	\$ 713,637.13

EXHIBITS: Page 46: EXHIBIT "A" DIGEST OF SMELTER CONTRACTS

Page 46:

Page 47:

DIGEST OF SMELTER CONTRACTS

BUYER: American Smelting & Refining Co.
 SELLER: Montana Mines Operation
 PRODUCT: Lead ores and concentrates

ANALYSIS: Product of substantially following analysis:
 Au. Ag. Pb. Cu. SiO₂ Fe CaO Zn S Al₂O₃
 .40 oz. 35.oz. 55.0% 2.5% 5.0% 5.0% -- 10.0% Ro 1%

TONNAGE: Up to 1000 tons per month
 DATE: March 16, 1928
 DELIVERY: F.O.B. cars at El Paso Smelter
 PAYMENTS:

Gold
 0.03 ounce, pay for all at \$20 per oz.

Silver
 Pay for 95% - minimum deduction 1/2 Troy oz. per ton

Lead
 Deduct 1 1/2 units from the wet assay and pay for 95% of the remaining lead at AS&R Co. published quotation for common desilverized domestic lead for delivery in New York City on date of arrival of last car of corresponding lot, at Smelter, less a deduction of 1.4¢ per pound.
 When payment is made for copper, additional deduction will be made from the wet assay of lead at the rate of 8 lbs. of lead for each unit of copper paid for

Copper
 Pay for 90% by wet assay, provided that the amount of copper deducted from the wet assay shall not be less than ten pounds per ton of ore, at the average of the daily net refinery quotations for electrolytic wire bars, ingot bars and cakes, as shown by the E & M Journal in its issue for the calendar week next preceding the date of arrival of the last car of corresponding lot at smelter, less a deduction of 3¢ per lb.

DEDUCTIONS:

Base Charge
 \$4.50 per net dry ton of 2000 lbs. when the wet assay for lead is 30%. Decrease base charge at 10¢ per unit for each unit above 30%; increase base charge at 10¢ per unit for each unit below 30%.

Page 48:

DEDUCTIONS CONT'D:

Combined Lime and Magnesia
 1% free. Charge for excess at \$1 per unit.

Moisture
 Minimum deduction, 1%.

FREIGHT RATES

Zinc Concentrates Amado to Amarillo, Texas.

For valuation of \$50.00 or less per ton ----- \$6.50 per ton
 For valuation greater than \$50.00 and
 less than \$100.00 per ton ----- 7.00 per ton

Page 49:

DEDUCTIONS CONT'D:

Insoluble
 Charge of 10% per unit for all contained.

zinc
 12% free - charge for excess at rate of 30¢ per unit.

Sulphur
 No charge on concentrates.

Antimony and so forth
 One unit of antimony, arsenic and tin combined allowed free. Charge for excess at the rate of \$2.50 per unit.

Bismuth
 One tenth of one percent allowed free. Charge for excess at 50¢ per lb.

FREIGHT RATES

On Lead Concentrates in Dollars Per Ton

Value of concentrates Per Ton	\$15.00	\$20.00	\$30.00	\$40.00	\$50.00	\$75.00	\$100.00
Hayden	1.60	1.90	2.20	2.50	2.80	3.40	4.00
Superior	1.60	1.90	2.20	2.50	2.80	3.40	4.00
Bouglas	1.40	1.70	2.00	2.30	2.60	3.20	3.80
El Paso	3.10	3.40	3.70	4.00	4.30	4.90	5.50

DIGEST OF SMELTER CONTRACTS

BUYER: United States Zinc Company
 SELLER: Montana Mines Operation
 PRODUCT: Zinc Ores and concentrates

ANALYSIS: Product of substantially following analysis:
 Au. Ag. Pb. Cu. Zn. Fe. Ins.
 0.02 oz. 10.0 oz. 3.0% 0.75% 52.0% 3.0% 10.0%

DATE: March 16, 1928
 DELIVERY: F.O.B. Cars at Amarillo, Texas Smelter
 PAYMENTS:

Gold
 85% at \$19.00 per ounce when 0.03 ounces or more.

Silver
 Pay for 65% at Handy & Harmon's N.Y. quotation when 1.0 oz. or more.

Lead
 65% of wet assay, then deduct 1 1/2 units and pay for remainder at published quotation of the AS&R Company for common desilverized domestic lead less 1 1/2¢ per lb.

Copper
 Pay for 65% at N.Y. quotation for electrolytic cathodes, as shown by E & M Journal, less 5¢ per lb. No payment will be made if assay less than 1%.

Zinc
 For zinc assaying 40% or better, pay for 80% of content, at St. Louis price for prime Western zinc, as shown in the Engineering & Mining Journal, less 29¢ per 100 lbs. For zinc assaying below 40%, deduct 8 units and pay for remainder at St. Louis price less 29¢ per 100 lbs.

DEDUCTIONS:

Base Charge
 \$22 per net dry ton of ore or concentrates paid for when St. Louis Price of zinc is 6 1/2¢ per lb. or lower. For each one cent increase in price of zinc over 6 1/2¢ add to base charge \$3 per ton, fractions in proportion.

Base Charge - Residue
 \$5.50 per net dry ton of ore or concentrates paid for; when the combined value of gold, silver, lead and copper, as provided for above, does not equal this amount, no payment for these metals shall be made and no residue base charge shall be deducted.

EXHIBITS: Page 50: EXHIBIT "B" CALCULATION OF ORE RESERVES.

Page 50:

CALCULATIONS OF ORE RESERVES
MONTANA MINE
-
GRAND SUMMARY

	Contents (Tons)	Width Cut Feet	Assays				
			Gold Oz. Per Ton	Silver Oz. Per Ton	Lead %	Zinc %	Copper %
Assured Ore							
Mine Dump	5300.00		0.033	4.00	3.97	7.27	0.19
Above Tunnel Level (Block K)	3614.3	6.1	0.051	6.84	5.73	6.45	
Bet. Tunnel Level & 100 Ft. Level	51049.5	6.8	0.058	6.80	5.58	7.39	0.26
Bet. 100 Ft. Level & 200 Ft. Level	17214.6	5.1	0.039	5.27	4.61	7.81	0.22
Bet. 200 Ft. Level & 300 Ft. Level	16874.3	5.0	0.046	4.66	4.09	5.91	0.24
T o t a l s -	94052.7						
Averages		5.8	0.051	5.98	5.05	7.16	0.24
Probable Ore							
Bel. 300 Ft. Level (Block R)	168145.0	5.0	0.061	6.20	5.40	6.10	0.34
Bel. 300 Ft. Level (Block S)	39000.0	5.0	0.061	6.20	5.40	6.10	0.34
T o t a l s	207145.0						
Averages		5.0	0.061	6.20	5.40	6.10	0.34
GRAND TOTALS -	301197.7						
GRAND AVERAGES -		5.4	0.058	6.13	5.29	6.43	0.31

Page 51:

CALCULATIONS OF ORE RESERVES
MONTANA MINE
-
GRAND SUMMARY
Showing
ORE RESERVES BETWEEN TUNNEL LEVEL AND 300 FT. LEVEL

	Contents (Tons)	Width Cut Feet	Assays				
			Gold Oz. Per Ton	Silver Oz. Per Ton	Lead %	Zinc %	Copper %
Between Tunnel & 100 Ft. Level	51049.5	6.8	0.058	6.80	5.58	7.39	0.26
Between 100 Ft. & 200 Ft. Level	17214.6	5.1	0.039	5.27	4.61	7.81	0.22
Between 200 Ft. & 300 Ft. Level	16874.3	5.0	0.046	4.66	4.09	5.91	0.24
T o t a l s -	85138.4						
Averages		6.1	0.052	6.07	5.09	7.18	0.25

Page 52:

CALCULATIONS OF ORE RESERVES
MONTANA MINE
-
MINE DUMP - ON SURFACE

	Sample Numbers	Width Cut Feet	Assays				
			Gold Oz. Per Ton	Silver Oz. Per Ton	Lead %	Zinc %	Copper %
Old Dump	1		0.04	5.10	8.3	14.3	
	2		0.04	4.70	5.3	10.4	
	3		0.05	5.10	3.4	9.8	
	4		0.02	6.20	4.4	13.4	
Averages			0.038	5.28	5.4	12.0	
Estimated Contents (Tons)							
Summary							
Old Dump	1500		0.038	5.28	5.4	12.0	
Ore Placed on Dump by E.P.L. Co.	2000		0.031	3.49	3.4	5.4	0.19
T o t a l s -	5300						
Averages			0.033	4.0	3.97	7.27	0.19

Page 53:

CALCULATIONS OF ORE RESERVES
MONTANA MINE
-
BLOCK K
STOPE ABOVE THE TUNNEL LEVEL

	Width Cut Feet	Assays				
		Gold Oz. Per Ton	Silver Oz. Per Ton	Lead %	Zinc %	Copper %
S. S. Block K	5.5	0.04	4.64	5.4	4.1	
Aver. of Block J	6.6	0.06	8.68	6.0	8.4	
Block Average	6.1	0.051	6.84	5.73	6.45	
Contents.....43,371 cubic feet						
<u>43,371</u> =						
12.03,614.3 tons						

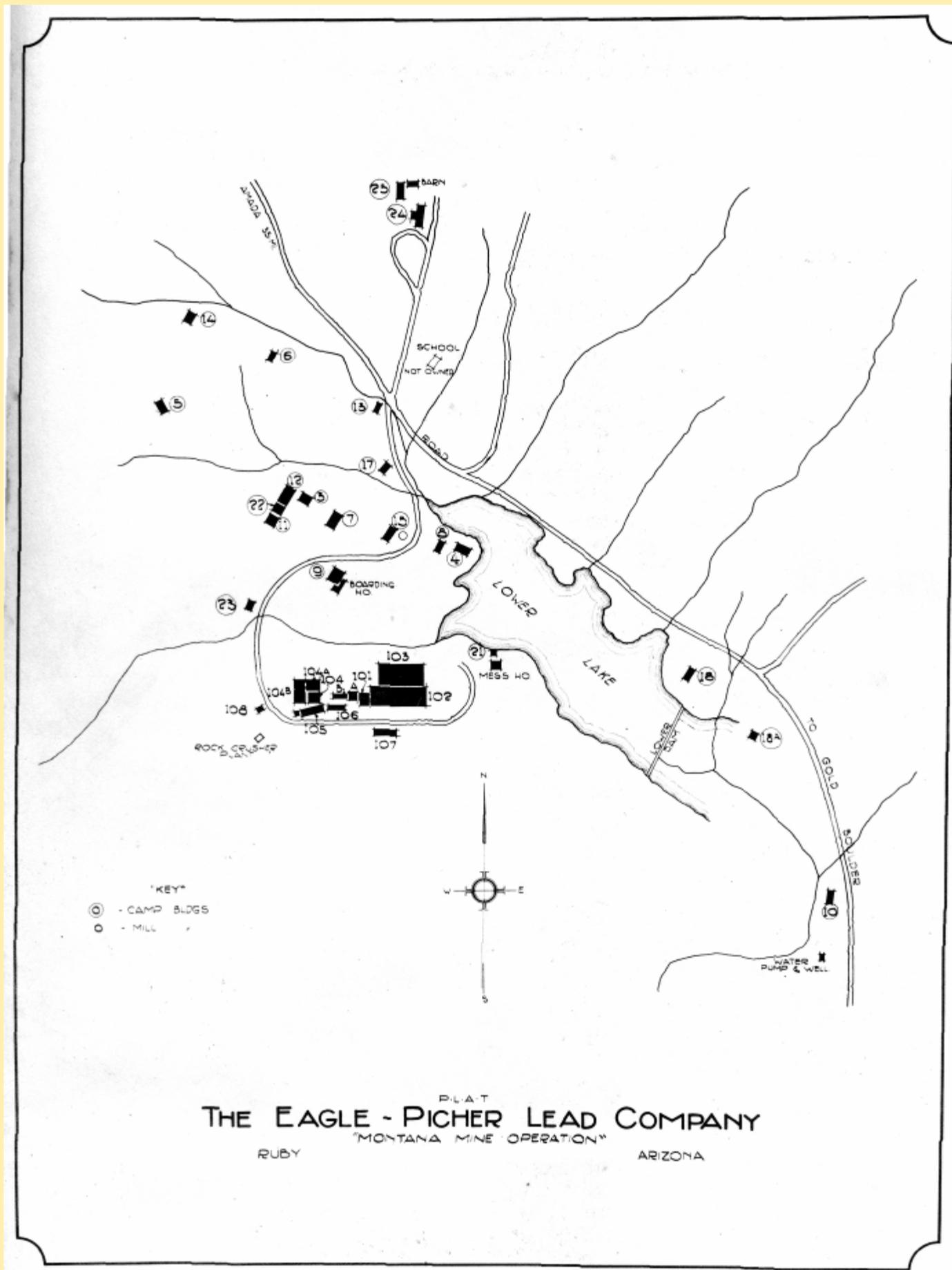
EXHIBITS: EXHIBIT “B” CALCULATION OF ORE RESERVES. (NOT SHOWN HERE)

- Page 54: Summary of Ore Reserves between Tunnel Level and 100 Ft. Level.
- Page 55: Summary of Ore Reserves between Tunnel Level and 100 Ft. Level.
- Page 56: Stope between 100 Ft. Level and Tunnel Level Block A.
- Page 57: Stope between 100 Ft. Level and Tunnel Level Block A, continued.
- Page 58: Stope between 100 Ft. Level and Tunnel Level Block B.
- Page 59: Stope between 100 Ft. Level and Tunnel Level Block C.
- Page 60: Stope between 100 Ft. Level and Tunnel Level Block D.
- Page 61: Stope between 100 Ft. Level and Tunnel Level Block E.
- Page 62: Stope between 100 Ft. Level and Tunnel Level Block F.
- Page 63: Stope between 100 Ft. Level and Tunnel Level Block G.
- Page 64: Stope between 100 Ft. Level and Tunnel Level Block G continued.
- Page 65: Stope between 100 Ft. Level and Tunnel Level Block H.
- Page 66: Stope between 100 Ft. Level and Tunnel Level Block I.
- Page 67: Stope between 100 Ft. Level and Tunnel Level Block J & 11.
- Page 68: Missing
- Page 69: Stope between 100 Ft. Level and Tunnel Level Block 15.
- Page 70: Stope between 100 Ft. Level and Tunnel Level Block 31.
- Page 71: Pillars between tunnel level and 100 Ft. level.
- Page 72: Pillars between tunnel level and 100 Ft. level, Pillar 1.
- Page 73: Pillars between tunnel level and 100 Ft. level, Pillar 3.
- Page 74: Pillars between tunnel level and 100 Ft. level, Pillar 5.
- Page 75: Pillars between tunnel level and 100 Ft. level, Pillar 7.
- Page 76: Pillars between tunnel level and 100 Ft. level, Pillar 9.
- Page 77: Pillars between tunnel level and 100 Ft. level, Pillar 12.
- Page 78: Pillars between tunnel level and 100 Ft. level, Pillar 14.
- Page 79: Pillars between tunnel level and 100 Ft. level, Pillar 17.
- Page 80: Pillars between tunnel level and 100 Ft. level, Pillar 19.
- Page 81: Stope between 100 Ft. level and Tunnel level, Pillar 21.
- Page 82: Stope between 100 Ft. level and Tunnel level, Pillar 23.
- Page 83: Stope between 100 Ft. level and Tunnel level, Pillar 25.
- Page 84: Stope between 100 Ft. level and Tunnel level, Pillar 26.
- Page 85: Stope between 100 Ft. level and Tunnel level, Pillar 28.
- Page 86: Stope between 100 Ft. level and Tunnel level, Pillar 30.
- Page 87: Stope between 100 Ft. level and Tunnel level, Pillar 32.
- Page 88: Stope between 100 Ft. level and Tunnel level, Pillar 32 continued.
- Page 89: Stope between 100 Ft. level and Tunnel level, Pillar 34.
- Page 90: Stope between 100 Ft. level and Tunnel level, Pillar 35.
- Page 91: Summary between 100 Ft. level and 200 Ft. level.
- Page 92: Summary between 100 Ft. level and 200 Ft. level, Block L.
- Page 93: Summary between 100 Ft. level and 200 Ft. level, Block L continued.
- Page 94: Summary between 100 Ft. level and 200 Ft. level, Block M.
- Page 95: Summary between 100 Ft. level and 200 Ft. level, Block N.
- Page 96: Summary between 200 Ft. level and 300 Ft. level.
- Page 97: Summary between 200 Ft. level and 300 Ft. level Block O.
- Page 98: Summary between 200 Ft. level and 300 Ft. level Block p.
- Page 99: Summary between 200 Ft. level and 300 Ft. level Block p.
- Page 100: Summary between 200 Ft. level and 300 Ft. level Block Q continued.
- Page 101: Ore Reserves below 300 Ft. Level.
- Page 102: Ore Reserves below 300 Ft. Level Block R.
- Page 103: Drill Hole #4d.
- Page 104: Drill Hole #8.
- Page 105: Drill Hole #11.
- Page 106: Drill Hole #12.

Page 107:

CALCULATIONS OF ORE RESERVES	
MONTANA MINE	
-	
BLOCK S BELOW 300 FEET LEVEL	
Estimated width, contents and value based upon average of Block R	
Contents.....	39,000.0 tons
Average Width.....	5.0 Feet
Av.....	0.061 oz.
Ag.....	6.20 oz.
Pb.....	5.40 %
Zn.....	6.10 %
Cu.....	0.24 %

Page 113:



Page 114:

SCHEDULE Showing Building Designation and Occupancy (See map page 113)

Buildings

Occupancy

MILL PROPERTY

Building	# 101	Crusher Building
	101/A	Rock bin
	101/B	Structural Steel head for shaft
	102	Power House
	103	Concentrating Mill Building
	104	Hoist House
	104/A	Blacksmith Shop
	104/B	Machine Shop
	105	Storeroom
	106	Change Room
	107	Laboratory
	108	Oil House
	109	Lumber Storage Shed

Lake Pump Rouse Near Building #21

CAMP PROPERTY

Building	# 3	Dwelling
	4	Dwelling
	5	Dwelling
	6	Dwelling
	7	Dwelling and Hospital
	8	School House
	9	Boarding House
	10	Dwelling
	11	Garage
	12	Dwelling
	13	Dwelling
	14	Dwelling
	15	Office
	17	Dwelling
	18	Dwelling
	18/A	Dwelling
	21	Mess House
	22	Dwelling
	23	Dwelling
	24	General Store and Dwelling
	25	Dwelling
	26	Stable

Page 115 & 116:

INVENTORY
MILL PROPERTY

LAND IMPROVEMENTS

INDUSTRIAL TRACKS

	Cost of Repro.	Sound Value		Cost of Repro.	Sound Value
Excavation on Hill Side - West of Bldg. #107 -					
2120 cu yds area excavation Depreciation 0%	151 20	151 20	102	66 30	53 04
Around Mill Buildings #1, 2, 3 and #4 -			30	67 50	54 00
16000 cu yds area excavation Depreciation 0%	1060 00	1060 00	1	68 82	51 62
	1231 20	1231 20	1	35 00	26 25
Lower Dam -					
1 concrete dam 212'0" long 16'0" high from lake bed Walls - 8'0" wide at bottom 2'0" at top Depreciation 0%	10500 00	10500 00	120	78 00	62 40
1 spillway 50'0" long 50'0" x 1'2" x 4'0" concrete 10'0" x 20'0" concrete floor with 8" x 2'0" walls 18'0" long Depreciation 0%	325 00	325 00	140	189 70	151 76
	10825 00	10825 00	2500	525 00	420 00
Upper Dam -					
1 concrete dam 157'0" long 25'0" above center grade, walls - 13'0" wide at bottom, 7'0" at top Depreciation 8%	17350 00	16482 50	30	16 20	14 58
T o t a l Total Sound Value	\$29406 20	\$28538 70		\$1046 52	\$ 835 65

Page 117: GENERAL SPECIFICATIONS AND DESCRIPTION OF BUILDING CONSTRUCTION:

LOCATION: This plant is located in the town of Ruby in the southwestern portion of the state of Arizona.

DELIVERY OF MATERIALS: Materials may Be delivered at the plant by truck over 35 miles of mountain roads from the railroad station at Amado or 76 miles from the city of Tucson, Arizona.

LABOR: Construction in the volume represented by the work of this plant would generally be done b~ contract but in this case done by Eagle-Picher Co. employees.

DESIGN AND CONSTRUCTION: Typical concentrating mill construction. Timber framing covered with corrugated galv. iron siding and roofing. The foundations are of concrete.

— oOo —

All material and workmanship entering into the building construction, or to be used in replacing existing construction, unless otherwise specified, is as follows:

EXCAVATION: Sandy clay soil hauled by scraper and wheelbarrow to dump on premises, 1 mile average haul. Excavation is figured from the present grade line.

FILLING: For buildings is of sandy clay or adobe.

FOUNDATIONS: Concrete for foundations and footings is a 1:2:3 mixture of cement, sand and crushed stone, laid in wood forms.

MASONRY WALLS: Adobe brick work is figured according to the actual superficial wall areas, with no deductions for openings, laid in adobe mud mortar for all buildings of adobe construction figured on the basis of 2 1/4 adobe brick per square foot or 12" wall.

MASONRY FLOORS: Concrete ground floors are 3" thick of 2 1/2" of concrete and 4" Portland cement finish.

Page 118: CONCRETE: Concrete as used in superstructure is a 1:1:2 mixture of cement, sand and crushed stone laid in dressed pine forms, carefully fitted, leaving smooth surface of all exposed parts.

STRUCTURAL STEEL: Steel framing only used in shaft head frame of standard shapes and weights.

METAL SIDINGS: For buildings are of corrugated galv. iron #24 gauge.

DOORS AND WINDOWS: Frames for buildings are mill work of selected white pine, painted 2—coat lead and oil. Stock panel doors are 1 3/8", 4 or 6 panels with 1" frames in adobe brick buildings, 1" frames in frame buildings and in partitions, painted 2-coat lead and oil. Factory doors in frame buildings are 1" batten with 1" frames. Factory doors in adobe brick buildings are 1" batten or paneled stock door, with 1" frames, painted 2-coat lead and oil. Factory windows are 1 3/8" sash, with 1" plank frames in brick buildings. Frames in frame buildings painted 2—coat lead and oil.

ROOFING: Corrugated galv, iron 24 gauge roofing.

PLASTERING: In adobe houses plaster direct on adobe mud wall, smoothed inside.

Page 119: CONSTRUCTION

Building #101, Designated as crusher Building

One-story iron-clad wood frame construction, 23' x 32'6" with Building #101/A and #101/B (Not incl. adj. walls of Bldgs. #102 and #101/A) First Story 24'0" to 50'0" high

BELOW GROUND

EXCAVATION

Entire area 9'6" deep 249.66

FOUNDATION

Walls -

1 side

10" to 2'0" thick

6'0" high

Concrete on 2'0" x 2'0"

Footing

288.64

Total Cost Below Ground 538.30

Total Sound Value 538.30

ABOVE GROUND

WALLS

Corrugated galv. Iron on 2" x 6" framing
3'0" centers, framed openings for windows
and doors

744.66

Page 120:

FRAMING

Timber posts, girders and beams

Posts

First Story 8" x 8" x 24'0"

6" x 6" x 24'0"

8" x 8" x 23'0"

Girders

Under First 8" x 8" x 32'0"

Floor 8" x 8" x 32'0"

First Floor 8" x 8" x 32'0"

Beams

6" x 8" x 8'0" braces 294.40

FLOORS

First Floor—2" plank flooring on 2" x 6" joists 24"
centers

Platform—2" plank flooring on 6" x 6" - 4'0"
centers

271.44

ROOF

Single and double pitch— corrugated galv. iron
roofing on 1" x 6" lining 3'0" centers, 2" x 6"
rafters 2'0" centers elevator enclosure on roof
8'0" x 8'0" walls—4 sides 14'0" av. height
corrugated galv. iron, 2" x 4" framing

390.20

Total Cost Above Ground 1700.70

Total Sound Value 1700.70

Total Cost Building #101 2239.00

Depreciation 0%

Total Sound Value 2239.00

Page 121: BUILDING #101/A DESIGNATED AS ROCK BIN

Frame construction, 18'0" x 18'0" x 38'0" high

BELOW GROUND

FOUNDATION

Pier-20'0" x 20'0" x 2'0" high concrete

Total Cost Below Ground

432.08

Total Sound Value

432.08

ABOVE GROUND

WALLS

Bins—2" oak plank

909.54

FRAMING

8" x 8" x 18'0" sills

8" x 8" x 20'0" posts

8" x 8" x 38'0" posts

8" x 8" x 18'0" cross bridging

8" x 8" x 26'0" beams

8" x 6" x 4'0" braces

8" x 6" x 7'0" braces

4" x 6" x 10'0" braces

4" x 6" x 20'0" braces

2" x 6" x 20'0" braces

2" x 6" x 16'0" braces

2" x 6" x 12'0" braces

4" x 8" x 18'0" braces

1099.40

FLOOR

2" oak flooring, 1" x 12" common boards caulked with

35# steel rails, laid 2'0" centers on floor

517.92

Page 122:

PENTHOUSE

18'0" x 18'0"

Walls-10'0" high with 4'0" high gable of corrugated galv. iron,

2" x 4" framing 2'0" centers

Roof-corrugated galv. Iron roofing on 1" x 6" board lining

2'0" centers, 2" x 6" rafters 2'0" centers

295.53

Total Cost Above Ground

2822.39

Total Sound Value

2822.39

Total Cost Building #101/A

3254.47

Depreciation 0%

Total Sound Value

3254.47

BUILDING #101/B

Structural steel head frame for shaft—10'7" x 31'6" x 75'0" high

BELOW GROUND

FOUNDATION

Pier-38' x 12'0" x 3'6" high concrete shaft head 5'0" x 10'0" inside

4 sides 24" thick concrete 6'0" deep

Total Cost Below Ground

384.40

Total Sound Value

384.40

ABOVE GROUND

FOUNDATION

Piers-38" x 38" x 4'0" high concrete

56.00

Page 124: CONSTRUCTION BUILDING #102 DESIGNATED AS POWER HOUSE

One-story iron-clad, wood frame construction 50'0" x 134'0" one bay wide, thirteen bays long

First story 13'0" high

Gable 12'0" high

Monitor 12'0" high

BELOW GROUND

EXCAVATION

Entire area 7'0" deep

1407.00

FOUNDATION

Walls-1 side 18" x 2'0" high footing 1 side 3'0" x 4'9" high

Concrete footing 2 ends 18' x 2'0" high concrete footing

Piers-interior-concrete piers under bin 12" top 18" bottom 14'6"

long 8'6" deep below ground

1526.79

	Total Cost Below Ground	2933.79	
	Total Sound Value		2933.79
ABOVE GROUND			
WALLS			
	1 side-14" thick 4'6" av. Height concrete		Page 125:
	1 side-12" to 3'0" thick 12'4" high concrete 2 ends 14" thick 3'0" high concrete		
	2 ends 14" thick 3'0" high concrete — 2 sides and 2 ends 8'6" high corrugated galv. iron siding on 2" x 6" girts 3'0" centers, 6' x 8" sill and 2" x 6" plates with framed openings for windows		
	Gable 6'0" high corrugated galv. iron siding on 2" x 6" framing 3'0" centers		
	Monitor 12'0" high corrugated galv. iron siding 2" x 6" framing 3'0" centers	4067.60	
FRAMING			
	Timber posts, braces and trusses		
	Posts-		
	6" x 8" x 8'0" posts		
	6" x 8" x 12'0" posts with 2" x 6" x 4'0" and 6" x 6" x 4'0" braces		
	6" x 8" sill		
	4" x 6" plates		
	4" x 6" ledger		
	4" x 6" purlins		
	Trusses		
	Truss members-		
	1—6" x 8" x 50'0"		
	1—6" x 6" x 24'0"		
	4—6" x 6" x 14'0"		
	2—4" x 6" x 6'0"		
	1—6" x 8" x 50'0" with 2—6" x 6'0" braces		
	1—3/4" x 7'0" rod	1182.00	Page 126:
FLOORS			
	Not in place at date of inspection		
ROOF			
	Double pitch-corrugated galv. iron roofing, 1" x 6" board Lining 2'0" centers and 2" x 6" rafters 2'0" centers	2438.80	
INTERIOR FIXTURES			
	Bin 14'0" x 14'0" x 22'0" high	1438.50	
	Total Cost Above Ground	9126.90	
	Total Sound Value		<u>9126.90</u>
	Total Cost Building #102	12060.69	
	Depreciation 0%		
	Total Sound Value		<u>\$12060.69</u>

Page 127: CONSTRUCTION BUILDING #103 DESIGNATED AS CONCENTRATING MILL BUILDING

One-story iron-clad, wood frame construction, 54'0" x 108'0" av. Two bays wide, eleven bays long. (Not incl. adj. walls of Bldg. #102) First story 14'0" to 24'6" high.

BELOW GROUND			
EXCAVATION			
	Entire area 2'0" to 8'0" deep	955.98	
FOUNDATION			
	Walls-1 side, part 2 ends and 1 interior 12" to 36" thick 3'0" to 11'0" high concrete	3080.16	
	Total Cost Below Ground	4036.14	
	Total Sound Value		4036.14
ABOVE GROUND			
WALLS			
	1 side and 2 ends 10" to 24" thick 1'0" to 22'0" high concrete with corrugated galv. iron siding on wood framing above frame 8'0" to 24'6" high with door and window frames	4059.52	

ABOVE GROUND

WALLS

1 side and 2 ends 10" to 24" thick 1'0" to 22'0" high concrete with corrugated galv. iron siding on wood framing above frame 8'0" to 24'6" high with door and window frames 4059.52

FRAMING

Timber posts, beams and trusses

Posts

8" x 8" x 24'0"

8" x 8" x 16'0"

8" x 8" x 12'6"

Roof beams

6" x 6"

Trusses

Truss members

1—8" x 8" x 28'0"

2—4" x 6" x 16'0"

1—4" x 6" x 7'0"

2—6" x 6" x 8'0"

1—6" x 6" x 14'0"

2—4" x 8" x 28'0"

1—4" x 6" x 7'0"

1—6" x 6" x 8'0" 798.06

FLOOR

Not in place at date of inspection

ROOF

Single pitch-corrugated galv. iron roofing on 1' x 6" lining 2'0" centers on 2' x 6" rafters 2'0" centers 2073.50

Total Cost Above Ground 7531.08

Total Sound Value 7531.08

Total Cost Building #103 \$11567.22

Depreciation 0%

Total Sound Value \$11567.22

Page 128:

Page 129: CONSTRUCTION BUILDING #104 DESIGNATED AS HOIST HOUSE

One-story iron-clad, wood frame construction 25'0" x 34'0" with Buildings #104/A and #104/B (Not incl. adj. walls of Bldg. #104/A)
 First Story 10'0" high Gable 8'0" high

BELOW GROUND

EXCAVATION

Entire area 3'0" av. Depth 133.56

FOUNDATION

Piers-21" x 21" x 2'0" high concrete 41.92

Total Cost Below Ground 175.48

Total Sound Value 175.48

ABOVE GROUND

WALLS

2 sides and 1 gable end corrugated galv. iron siding on 2" x 6" studs 4'0" centers, 4'0" x 6'0" and 10'0" high, 2" x 6" girts, 2" x 6" plate, 4" x 6" sill with window frames and 1 door frame 286.20

FLOOR

Dirt

ROOF

Corrugated galv. iron roofing on 1" x 6" lining 2'0" centers on 2" x 6" rafters 2'0" centers with wood trusses 374.85

Total Cost Above Ground 661.05

Total Sound Value 661.05

Total Cost Building \$104 836.53

Depreciation 0%

Total Sound Value 836.53

Page 130:

FLOOR

Dirt

ROOF

Corrugated galv. iron roofing on 1" x 6" lining 2'0" centers on 2" x 6" rafters 2'0" centers with wood trusses

374.85

Total Cost Above Ground

661.05

Total Sound Value

661.05

Total Cost Building \$104

836.53

Depreciation 0%

Total Sound Value

836.53

BUILDING #104/A DESIGNATED AS BLACKSMITH SHOP

One-story frame iron-clad construction 26'0" x 30'0" (Not incl. adj. walls of Bldg. \$104/B)
 First Story 10'0" high Gable 8'0" high

BELOW GROUND

EXCAVATION

Entire area 3'0" av. Depth

70.20

FOUNDATION

Piers-21" x 21" x 2'0" high concrete

36.68

Total Cost Below Ground

106.88

Total Sound Value

106.88 **Page 131:**

ABOVE GROUND

WALLS

2 sides and 1 end corrugated galv. iron siding on 2" x 6" studs 4'0" and 14'0" high and 2" x 6" girts, 2" x 6" plate, 4" x 6" sill with door frame and window-frame and 1 3/8" sash

358.84

FLOOR

Dirt

ROOF

Corrugated galv. iron roofing on 1" x 6" lining 2'0" centers on 2" x 6" rafters 2'0" centers with wood trusses

327.45

Total Cost Above Ground

686.29

Total Sound Value

686.29

Total Cost Building #104A

793.17

Depreciation 0%

Total Sound Value

793.17

BUILDING #104/B DESIGNATED AS MACHINE SHOP

One-story iron-clad, wood frame construction 30'0" x 60'0" one bay wide, one bay long
 First story 10'0" high Gable 8'0" high

BELOW GROUND

EXCAVATION

Entire area 3'0" av. Depth

162.00

Page 132:

FOUNDATION

Peirs-21" x 21" x 2'0" high concrete

104.80

Total Cost Below Ground

266.80

Total Sound Value

266.80

ABOVE GROUND

WALLS

2 sides and 2 ends corrugated galv. iron siding on 2" x 6" studs 4' x 0" centers, 10'0" to 14'0" high 2" x 6" girts, 2" x 6" plate, 4" x 6" sill with siding doors and 1 3/8" windows

820.40

FLOOR

2" x 12" plank flooring on 2" x 6" joist 2'0" centers

432.00

ROOF

Corrugated galv. iron roofing on 1" x 6" lining 2'0" centers on 2" x 6" rafters 2'0" centers with wood trusses

797.70

Total Cost Above Ground	2050.10	
Total Sound Value		<u>2050.10</u>
Total Cost Building #104B	2316.90	
Depreciation 0%		
Total Sound Value		<u>2316.90</u>
Total Cost Building #104, #104/A and #104/B	3946.60	
Total Sound Value		<u>\$3946.60</u>

Page 133: CONSTRUCTION BUILDING #105 DESIGNATED AS STOREROOM

One-story adobe, iron-clad, wood frame construction, 19'0" x 55'0"
 First Story 10'0" high Gable 6'0" high

BELOW GROUND

EXCAVATION

Entire area 4'0" av. Depth 178.20

FOUNDATION

1'0" thick 2'0" high adobe brick 66.80

Total Cost Below Ground 245.00

Total Sound Value 208.25

ABOVE GROUND

WALLS

2 sides, 1 end and 1 partition 12" thick adobe brick 10'0" to 13'0" high with batten doors and 1 3/8" windows 328.09

FLOOR

3" concrete, 1/2" cement finish
 Ceiling-1" M7B, painted on 2" x 6" joists 3'0" centers 363.48

ROOF

Corrugated galv. iron roofing on 1" x 6" lining 2'0" centers on 2" x 6" rafters 2'0" centers 451.36

Total Cost Above Ground 1142.93

Total Sound Value 971.49

Total Cost Building #105 \$1387.93

Depreciation 15%

Total Sound Value \$1179.74

Page 134:

Page 135: CONSTRUCTION BUILDING #106 DESIGNATED AS CHANGE ROOM

One-story frame construction 14'4" x 40'0"
 First Story 9'0" high Gable 5'0" high

BELOW GROUND

EXCAVATION

Entire area 3'0" av. depth 51.66

FOUNDATION

Wood blocking on ground 15.00

Total Cost Below Ground 66.66

Total Sound Value 56.66

ABOVE GROUND

WALLS

2 sides, 2 ends and 1 partition 1" x 6" siding, painted on 2" x 4" studs 24" centers, 1" D&M lining, painted 4" x 4" sill, 2" x 4" plate with paneled doors and 1 3/8" windows 342.60

FLOOR

1" x 6" D&M flooring on 2" x 6" joists 2'0" centers
 Ceiling-1" x 6" M&B, painted on 2" x 4" joist 2'0" centers 240.80

ROOF

Corrugated galv. iron roofing on 1" x 6" board lining 2'0" Centers on 2" x 4" rafters 2'0" centers 279.62

INTERIOR FIXTURES

Shower partitions 9'0" high 294.60

EXTERIOR FIXTURES

Platform 3'6" x 18'0" with 2 stairs 35.00

Page 136:

Total Cost Above Ground	1192.62	
Total Sound Value		<u>1013.73</u>
Total Cost Building #106	\$1259.28	
Depreciation 15%		
Total Sound Value		<u>\$1070.39</u>

Page 137: CONSTRUCTION BUILDING #107 DESIGNATED AS LABORATORY

One-story adobe brick and frame construction 18'0" x 56'4"
 First Story 10'0" high Gable 6'0" high

BELOW GROUND

EXCAVATION

Entire area 3'0" av. Depth 91.26

FOUNDATION

Walls-12" thick 2'0" high adobe brick, 4" x 6" wood sills 55.00

Total Cost Below Ground 146.26

Total Sound Value 138.95

ABOVE GROUND

WALLS

Adobe portion 12" adobe 10'0" to 13'0" high brick,
 plastered inside with plank frame windows and panel doors

Frame portion 10'0" to 13'0" high 1" x 6" siding, painted
 2" x 4" studs 2'0" centers, 1" M&D lining, painted with
 1 3/8" windows and paneled doors

Partition walls 1" D&M, 2" x 4" framing 10'0" high,
 painted 2 sides, paneled doors

FLOOR

3" concrete 1/2" cement finish, 1" D&M floor, 2" x 4" sleepers
 ceiling-1" x 6" D&M, painted on 2" x 4" joist 24" centers 412.50

ROOF

Corrugated galv. iron roofing 1" board lining and 2" x 4"
 rafters 24" centers with wood trusses 537.06

EXTERIOR FIXTURES

Flight of wood stairs and platform 15.00

Total Cost Above Ground 1986.37

Total Sound Value 1887.05

Total Cost Building #107 \$2132.63

Depreciation 5%

Total Sound Value \$2026.00

Page 138:

Page 137: CONSTRUCTION BUILDING #108 DESIGNATED AS OIL HOUSE

One-story iron-clad, wood frame construction 16'0" x 18'0" First Story 8'6" high.

BELOW GROUND

EXCAVATION

Area 1'6" to 3'0" deep

Total Cost Below Ground 36.00

Total Sound Value 36.00

ABOVE GROUND

WALLS

2 sides and 2 ends corrugated galv. iron siding, 2" x 6" studs
 8'6" and 11'0" high 4'0" centers, 2" x 6" girt. 2" sill and plates
 with door 209.04

FLOOR

Dirt

ROOF

Corrugated galv. iron roofing 1" x 6" board lining,
 2'6" centers, 2" x 6" x 4" rafters 2'0" centers 123.50

EXTERIOR FIXTURES

Platform 6'0" x 16'0" 30.00

Total Cost Above Ground	362.54	
Total Sound Value		<u>362.54</u>
Total Cost Building #108	\$398.54	
Depreciation 0%		
Total Sound Value		<u>\$398.54</u>

Page 140:

Page 140: CONSTRUCTION BUILDING #109 DESIGNATED AS STORAGE SHED

One-story open frame construction, 15'0" x 15'6". First Story 8'0" high.

BELOW GROUND

EXCAVATION

Entire area 1'6" av. Depth 11.65

Total Cost Below Ground 11.65

Total Sound Value 7.57

ABOVE GROUND

FRAMING

2" x 4" x 7'0" posts

2" x 4" x 15'0" girders

6" x 6" x 15'0" sills 29.07

FLOOR

2" plank flooring on sills 55.92

ROOF

Corrugated galv. iron roofing, 2" x 4" rafters 5'0" centers 62.91

Total Cost Above Ground 147.90

Total Sound Value 96.14

Total Cost Building #109 \$159.55

Depreciation 35%

Total Sound Value \$103.71

Page 141: CONSTRUCTION LAKE PUMP HOUSE Near Building #21

One-story iron-clad, wood frame construction. First Story 5'0" high.

ABOVE GROUND

WALLS

1 end corrugated galv. iron on siding on 2" x 4" framing 9.75

ROOF

Corrugated galv. iron roofing, 2" x 4" rafters
On 2" x 4" posts 5'0" high 45.30

Total Cost Building \$0055.055

Depreciation 30%

Total Sound Value \$38.54

Page 142: MISCELLANEOUS STRUCTURES

	Cost of Repro.	Sound Value
Cooler Tank and Tower		
East of Building #102—concrete tank 12'0" x 16'0" x 6'0" deep		
Walls-8' concrete—floor-4" concrete pine cooling tower		
Below Ground	223.15	
Depreciation 0%		223.15
Above Ground	50.00	
Depreciation 0%		<u>50.00</u>
Concrete Powder Magazine		
On Hill South of Plant 3'0" x 4'6" x 4'0" high		
concrete sides, roof and floor	55.82	
Depreciation 0%		55.82
Two Outhouses		
4'6" x 6'6" x 6'6" high, 1" siding, 2" x 4" frame		
Roof—corrugated galv. iron, 2" x 4" rafters		
Value of one—	91.50	
Value of two-	163.00	
Depreciation 0%		163.00

Gold Boulder Prospect Shaft		
Prospect shaft head	250.00	
Depreciation 0%		<u>250.00</u>
Total	\$ 741.97	
Total Sound Value		<u>\$7 41.97</u>

Page 143: WELL Yard and Outside

Lower Dam Water Well		
1. dug well, 6' x 6' x 35,' sides of 2" plank, 8' x 8' sets 5' on centers, plank cover	\$ 340.00	
Depreciation 5%		
Sound Value		<u>\$ 323.00</u>

Page 144: ELECTRIC LIGHTING SYSTEM

Building #101—#101/A and #101/B		
2. Drop lights, open wiring	\$ 30.00	
Depreciation 0%		
Sound Value		<u>\$ 30.00</u>

Building #102		
4. Drop lights, open wiring Mis. Electric lighting supplies, not installed, consisting of sockets, lamps, fuse blocks, wiring condulets, etc.	\$ 40.00	
	<u>275.00</u>	
Total Building #102	\$ 315.00	
Depreciation 0%		
Sound Value		<u>\$ 315.00</u>

Buildings #104—104/A and #104/B		
5. Drop lights, open wiring	\$ 30.00	
Depreciation 0%		
Sound Value		<u>\$ 30.00</u>

Page 145: FOUNDATIONS FOR MACHINERY AND EQUIPMENT

Building #101			
Machine #1		Cost of Repro.	Dep.
1—6'0" x 9'0" x 7'0" concrete			Sound Value
1—6'0" x 9'0" x 11'6" concrete			
Below Ground	238.21	0%	238.21
Above Ground	<u>359.36</u>	0%	<u>359.15</u>
	597.36		597.36
Machine #3			
2—2'6" x 5'0" x 3'0" concrete			
excavation 2'0" deep 58 lin ft 12" x 12" timber			
16 lin ft 4" x 6" timber, 4-1" x 7'0" bolts			
4—1" x 4'6" bolts			
Below Ground	56.16	0%	56.16
Above Ground	<u>109.44</u>	0%	<u>109.44</u>
	165.60		165.60
Machine #4			
2—2'6" x 5'0" x 3'0" concrete			
excavation 2'0" deep 58 lin ft 12" x 12" timber			
16 lin ft 4" x 6" timber, 4-1" x 7'0" bolts			
4—1" x 4'6" bolts			
Below Ground	56.16	0%	56.16
Above Ground	<u>109.44</u>	0%	<u>109.44</u>
	165.60	0%	165.60
Machine #7			
1—70'0" x 16'0" x 4'0" excavation full depth			
1-7'0" x 16'0" x 1'0"—2-16'0" x 10" x 3'0"			
2-5'0" x 10" x 3'0" concrete			
Below Ground	<u>171.36</u>	0%	<u>171.36</u>
Total Building #101	<u>\$1099.92</u>		<u>\$1099.92</u>

Page 146: FOUNDATIONS FOR MACHINERY AND EQUIPMENT

Building #102

	Cost of Repro.	Dep.	Sound Value
Machine #20			
1—2'0" x 10'0" x 2'0"—2-3'0" x 5'0" x 2'0" concrete			
Excavation 2'0" deep 1- 1'0" x 10'0" x 6"—1-1'0" x 6"			
Below Ground	75.32	0%	75.32
Above Ground	<u>6.85</u>	0%	<u>6.85</u>
	82.17	0%	82.17
Machine #22			
1—8'0" x 16'2" x 4'0" concrete			
Excavation 4'0" deep 1- 7'6" x 5'4" X 2'0"			
1-1'4" X 3'7" X 2'8" concrete face, cement plaster			
Below Ground	304.64	0%	304.64
Above Ground	<u>58.65</u>	0%	<u>58.65</u>
	363.29		363.29
Machine #23			
1—3'0" x 3'6" x 2'6", 1-8'6" x 11'6" x 4'0" concrete			
excavation 4;0" deep 1-4'6" x 5'4" x s'0", 2-3/8" x 1'8" x 2'0"			
1-3'6" x 2'0" x 2'0", 1-1'8" x 2'10" x 1'0" concrete face, cement plaster			
Below Ground	238.87	0%	238.87
Above Ground	<u>89.15</u>	0%	<u>89.15</u>
	328.02	0%	328.02
Page 147: Machine #24			
1—8'6" x 9'6" x 3'0" concrete			
excavation 3'0" deep, 2-3'3" x 6'0" x 2'8", 1-2'0" x 9'0"			
2'8" concrete			
Below Ground	139.98	0%	139.98
Above Ground	<u>103.23</u>	0%	<u>103.23</u>
	243.21		243.21
Machine #25			
1—8'6" x 21'6" x 6'0" concrete			
excavation 6'0" deep, 1-2'6" x 2'3" x 2'0", 1-5'2" x 1'-0"			
x 2'0", 1-1 x 6" x 5'0" x 3'6" concrete			
Below Ground	637.15	0%	637.15
Above Ground	<u>87.60</u>	0%	<u>87.60</u>
	724.75		724.75
Machine #26			
1 -8'0" x 32'0" x 14'0" concrete			
excavation 14'0" deep, 1-5'3" x 18'0" x 2'0", 1-1'4" x 8'-0"			
x 3'0", 3-2 x 2" x 2'6" x 1'6" concrete			
Below Ground	2110.78	0%	2110.78
Above Ground	<u>179.72</u>	0%	<u>179.72</u>
	<u>2290.50</u>		<u>2290.50</u>
Total Building #102	<u>\$4031.94</u>		<u>\$4031.94</u>

Page 148: FOUNDATIONS FOR MACHINERY AND EQUIPMENT

Building #103

	Cost of Repro.	Dep.	Sound Value
Machines #40, 41, 42, 43, 44, 45, 46 and #47			
3—12" x 106'0" x 2'0," 8—1'3" x 4'0" x 2'6,"			
8—1'0" x 2'0" x 2'0" concrete			
excavation 2'0" deep 3—12" x 106'0" x 2'0" concrete			
64—18" bolts, 558 lin ft 8" x 8" timbers			
Below Ground	732.67	0%	732.67
Above Ground	<u>935.26</u>	0%	<u>935.26</u>
	1667.93		1667.93
Machines #48, 49, 50, 51, 52, 53, 54 and #55			
8—12" x 14'0" x 1'6" concrete			
excavation 1'6" deep			
Below Ground	157.92	0%	157.92

Page 149: 2—2'6" x 8'0" bottom, 1'6" x 6'0" top, 4'0" high concrete

Below Ground	76.40	0%	76.40
Above Ground	<u>235.25</u>	0%	<u>235.25</u>
	<u>311.65</u>		<u>311.65</u>
Total Building #103	<u>\$2207.70</u>		<u>\$2207.70</u>

Page 150: FOUNDATIONS FOR MACHINERY AND EQUIPMENT

Building #104

Machine #85

1—9'6" x 12'0" x 4'0" excavation 4'0" deep, 3—9'6" x 1'6" x 6'0"
 2—12'0" x 1'6" x 6'0" concrete, 1—6'0" x 4'0" x 4'0" concrete
 excavation 3'6" deep 1—5'0" x 8'0" x 6'0," 1—2'0" x 2'0" x 6'0"
 concrete, excavation 5'0" deep 1-8'0" x 1'6" x 6'0" concrete
 excavation 6'0" deep 1—1'4" x 4'0" x 1'6" concrete

Below Ground	294.60	0%	294.60
Above Ground	<u>380.69</u>	0%	<u>380.69</u>
	<u>675.29</u>		<u>675.69</u>

Machine #86 and #87

1—2'6" x 8'0" x 3'0" concrete, excavation 2'6" deep

Below Ground	45.59	0%	43.59
Total Building #104	<u>\$ 718.88</u>		<u>\$ 718.88</u>

Page 151: FOUNDATIONS FOR MACHINERY AND EQUIPMENT Yard and Outside

Machines \$150 and \$151

South of Building #102

1—4'0" x 7'6" x 2'6" concrete, excavation 2'0" deep

Below Ground	<u>50.00</u>	0%	<u>50.00</u>
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Machine #156

West of Building \$107

x2'0" inside dimensions, 6' walls 4 sides, cement floor, 8 piers
 2—11'0" x 8" x 1'0," 2—23'0" x 8" x 2'6" concrete

1—11'0" x 22'6" concrete floor

Below Ground	52.36	0%	52.36
Above Ground	<u>201.06</u>	0%	<u>201.06</u>
	<u>253.42</u>		<u>253.42</u>

Machine #157 and #158

West of Building #107

3—12" x 19'0" x 1'0" concrete, 3—12" 19'0" x 3'6" concrete
 with saddles for tanks, 1—5'0" x 24'0," 6" concrete paving

Below Ground	53.58	0%	53.58
Above Ground	<u>199.17</u>	0%	<u>199.17</u>
	<u>252.75</u>		<u>252.75</u>

Page 152: FOUNDATIONS FOR MACHINERY AND EQUIPMENT

Crusher Plant

Southwest of Building #9

1—3'0" x 6'0" x 2'6" concrete, excavation 2'0" deep

Above Ground	<u>32.17</u>	40%	<u>19.30</u>
Total	<u>\$ 588.34</u>		<u>\$ 575.47</u>

Page 153: MACHINERY

Building #101

#1 1 Carterville 18" jaw crusher—manganese jaws and 28" x
 14" drive pulley \$1023.34
 Freight, Haulage and Installation 340.00

Cost of Repro. Sound Value

\$1363.34 \$1363.34

#2 Depreciation
 1 revolving screen—36" dia., 4' long—with 1/2"
 perforations—wood housing—40" x 6" pulley-
 Incl. freight and haulage
 Installed

250.00 250.00

			Cost of Repro.	Sound Value
#3	1 Web City set of 42" geared roughing rolls-with 48" x 14" drive pulley	\$1000.00		
	Freight, Haulage and Installation	<u>505.00</u>	1505.00	
	Depreciation			1505.00
#4	1 Web City set of 36" high speed finishing rolls—Manganese steel shells—2—72" x 12" belt pulleys	1600.00		
	Freight, Haulage and Installation	405.00	2005.00	
	Depreciation 10%			1804.50
#506 In Transit at Date of Appraisal				
#7	1 dirt belt and bucket elevator—42' centers—18" - 8-ply rubber belt-18" buckets—18" centers- wood housing 5'6" x 10'6"-1" x 12" boards—1" x 4" battens—2" x 6' painted-tail shaft with special boxes and 30" pulley			
	Page 154: head shaft with 30" pulley and 30" spur gear drive shaft with 8" spur pinion and 24" x 8" drive pulley			
	Erected		870.00	
	Depreciation 0%			870.00
#8	1 United Iron Works 6-ton crab or windless with 300' wire Cable	154.00		
	Freight, haulage and Installation	5.00	159.00	
	Depreciation 0%			159.00
	Launders			
	12' - 16" wide 8" deep 2" sides and bottom—cast iron lined	18.60		
	10' - 10" wide 12" deep 2" sides and bottom—cast iron lined	13.70		
	20' - 12" wide 12" deep 2" sides and bottom	<u>12.00</u>	44.30	
	Depreciation 0%			44.30
	Total Building #101		<u>\$6196.64</u>	
	Total Sound Value			<u>\$5996.14</u>

Page 155: MACHINERY

Building #102

#20	1 drag belt deslimer—22' centers—18" - 8-ply rubber belt—with steel flights—18" centers—wood housing Tail shaft with 30" x 18" pulley—patent bearing—head shaft with 30" x 18" pulley and 24" spur gear drive Shaft with 6" spur pinion and 28" x 8" steel and stairs			
	Installed		\$ 738.00	
	Depreciation 0%			\$ 738.00
#21	1 American Well Works (Aurora, Ill.) 3" centrifugal pump	64.00		
	Freight and haulage	<u>6.00</u>	70.00	
	Depreciation 0%			70.00
#22	1 Fairbanks, Morse & Co., 120 H/P 2 cylinder Standard style VA Diesel engine—with 5" x 7' extension shaft and outboard bearing—60" x 22" belt pulley-with 42" - 4-jaw clutch—purolator oil filter exhaust pot and pipe to roof	6550.00		
	Freight; haulage and Installation	<u>715.00</u>	7265.00	
	Depreciation 0%			7265.00
#23	1 Fairbanks, Morse & Co., 60H/P 1-cylinder direct connected style VA Diesel engine—with 5" x 7' extension shaft—with outboard bearing - 48" x 6" pulley—with exhaust pot and pipe to roof—oil filter—direct connected to Fairbanks, Morse & Co. type D 47 1/2 K/V/A 257 R/P/M engine type alternator 3 phase—60 cycles—240 volts—with rheostat			

		Cost of Repro.	Sound Value
Page 156:	Fairbanks, Morse Co. 5 H/P type DH-direct current belted exciter—40 amps. 1400 R/P/M/ shunt wound	5890.00	
	Freight, haulage and Installation	750.00	
	Wiring and conduit	<u>150.00</u>	
	Depreciation 0%	6790.00	6790.00
#24	1 Ingersoll-Rand Co. (New York) 19" x 12" x 16" type 10XB belt driven air compressor—Corliss value—#36952 and #36951	3800.00	
	Freight, haulage and Installation	<u>375.00</u>	
	Depreciation 0%	4175.00	4175.00
#25	1 Fairbanks, Morse & Co., 180 H/P 3-cylinder standard style VA Diesel engine— 257 R/P/M—with 62" x 20" belt wheel—42" -4-jaw clutch and 30" x 4" iron pulley-exhaust pot and piping to roof and oil filter	9943.00	
	Freight, haulage and Installation	<u>900.00</u>	
	Depreciation 0%	10843.00	10843.00
#26	1 Fairbanks, Morse & Co., 360 H/P 6-cylinder standard Style VA Diesel engine— 257 R/P/M—with 60" x 42" Belt wheel—56" - 4-jaw clutch—3" exhaust pots And piping to roof-oil filter	20795.00	
	Freight, haulage and Installation	<u>1650.00</u>	
	Depreciation 0%	22445.00	22445.00
Page 157:	#27 1 Fairbanks, Morse & Co., 50 K/V?A type AB 1200 R/P/M 3 phase 60-cycle alternator—#198296-frame A20B— belted type—with Fairbanks, Morse & Co. 5 k.w. D/C exciter—type DH—40 amps.—1400 R/P/M-shunt wound—#X48190—incl. switchboard with 2-24" X 6'6" x 1 1/2"—2-pc slate panels—equipped with 1-0 to 200 General Elec. Co. ammeter, 1—150-350 General Elec. Co. voltmeter, 1—0-80 General Elec. Co. ammeter. 2-60-amp. 250-volt D/P switches, 1-200-amp. 250-volt 3/P switches, 1 safety switch 3 plugs—buss—etc.	1969.00	
	Freight, haulage Installation on switchboard only	<u>95.00</u>	
	Depreciation 0%	2064.00	2064.00
#28	1 Fairbanks, Morse & Co., circulating pumping outfit consisting of 1 type 3 H/P 475 R/P/M gasoline engine-#670695—direct connected to 1 type H 3 3/4" x 3 3/8"-250# - 475 R/P/M air compressor 5 welded steel air tanks 20" dis., 5'2" high	485.00	
	Freight, haulage and Installation	<u>40.00</u>	
	Depreciation 0%	525.00	525.00
#29	1 Fairbanks, Morse & Co. 2" suction 1 1/2" discharge fig. 505 centrifugal pump	30.00	
	Freight, haulage and Installation	<u>5.00</u>	
	Depreciation 0%	35.00	35.00
Page 158:	#30 1 A. S. Cameron Steam Pump. Co. (New York, N.Y.) 6" x3" x 7" Simplex upright mine pump—#53196	250.00	
	Freight, haulage and Installation	40.00	
	Suction hose	<u>12.00</u>	
	Depreciation 60%	302.00	120.80
#31	1 Fairbanks, Morse & Co. 2 1/2" suction 2" discharge Fig. 505 centrifugal pump	58.00	
	Freight and haulage	<u>5.00</u>	
	Depreciation 0%	63.00	63.00

		Cost of Repro.	Sound Value
#32	1 Byron Jackson Co. 3" suction 3" discharge 350-gal. per min. sump pump-60' head—direct connected to Fairbanks, Morse & Co. 10 H/P motor	436.00	
	Freight and haulage	<u>10.00</u>	
	Depreciation 0%	446.00	<u>446.00</u>
	Total Building #102	\$55761.00	
	Total Sound Value		<u>\$55579.80</u>

Page 159: Building #103

#40-41-42-43-44-45-46-47, 8 Shackelford concentrating tables—with 14" x 4" tight and loose pulley drive	250.00		
Freight and Haulage	<u>35.00</u>	\$2280.00	
Depreciation 0%	285.00		\$2280.00

#48-49-50-51-52-53-54-55, 8 Burchart Flotation machines 0 #111—with 30" x 6" pulley drive	900.00		
Freight and haulage	<u>43.00</u>		
Depreciation 0%	943.00	7544.00	7544.00

#56-57 2 American 6' dia. 4-disc filters with 18" x 30" steel moisture traps—18" x 60" steel vacuum receivers 1 1/2" centrifugal pump	3672.00		
Freight and haulage	<u>190.00</u>		
Depreciation 0%	3862.00	7724.00	7724.00

#58-59 In Transit

#60-61 2 Burchart 4" diaphragm pumps-with 30" x 4" pulley	170.00		
Freight and haulage	<u>6.00</u>		
Depreciation 0%	176.00	352.00	352.00

#62-63 In Transit

# 64 1 A. R. Wilfrey (Denver, Colo.) 4" sand pump-with 10" x 10" pulley	550.00		
Freight and haulage	<u>20.00</u>	570.00	
Depreciation 0%			570.00

Page 160: #65 In Transit

#66-67-68-69, 4 Burchart mechanical oil feeders	45.00		
Freight and haulage	<u>4.00</u>		
Depreciation 0%	49.00	196.00	196.00

#70 1 filter bucket elevator—20' centers—8" -5-ply rubber belt—8" buckets—18" centers—wood housing-tail shaft—30" x 8" pulley—special bearings head shaft—30" x 8" pulley—40" x 6" drive pulley-part of material only not erected		200.00	
Depreciation 0%			200.00

#71 1 Hardinge Co. (York, Pa.) 8'6" x 36" conical ball mill #1920—with 72" x 24" pulley—f.o.b. York, Pa.	8167.00		
Freight and haulage	1175.00		
42 drums of steel balls for mill-85491#	3382.00		
Freight and haulage	<u>1240.00</u>	13964.00	
Depreciation 0%			13964.00

		Cost of Repro.	Sound Value
#72	1 float feed bucket elevator—22' centers—12" - 8-ply belt—12" buckets—18" centers—wood housing tail shaft with 30" x 12" pulley and special bearings- head shaft with 30" x 12" pulley and 40" x 8" drive pulley—part of material only—not erected Depreciation 0%	200.00	200.00
Page 161:	1 drag deslimmer conveyor 16' centers—18" -8 ply rubber belt—steel flights—18" centers-wood housing tail shaft—2—30" x 6" pulleys—patent bearings—head shaft—2—30" x 6" pulleys and 30" spur gear-drive shaft—6" supr pinion and 28" x 8" drive pulley-part of material only-not erected Depreciation 0%	300.00	300.00
	Launders Material on ground consisting of lumber and liners for following—but no labor was expended up to date of appraisal, 96' middling, 66' table lead, 66' tailings, 100 joints 11" cast iron liner	100.00 181.53	
	1 joints 18" x 10' cast iron liner	12.10	
	1 joint 18" x 16' cast iron liner	21.31	
	Freight and haulage on cast iron launder lining	<u>148.98</u>	
	Depreciation 0%	463.92	463.92
	Total Building #103	<u>\$33793.92</u>	
	Total Sound Value		<u>\$33793.92</u>

Page 162: Building #104

#85	1 Stearns Rogers (Denver, Calif.) 2-drum 48" x 24" reversing mine hoist with brakes and 450' - 7/8 cable on each drum—direct connected to Fairbanks, Morse & Co. 60 H/P 1-cylinder style VA Diesel engine-257 R/P/M-incl. freight and haulage, Installed Depreciation 0%	\$10725.00	\$10725.00
	2 all steel enclosed type shaft cages, installed in shaft at Bldg. #101B Installed Depreciation 30%	2131.00	1491.70
	2 all steel enclosed type shaft skip hoist cages—incl. freight and haulage Depreciation 0%	1314.50	1314.50
#84	1 Fairbanks, Morse & Co. circulating pumping outfit, consisting of 1 type Z 3 H/P/ 475 R/P/M gasoline engine-direct connected to 1 type H 3 3/4" x 3 3/8" air compressor, 2 welded steel air tanks, 20" dia., 5'2" high Freight, haulage and Installation	370.00 <u>35.00</u>	405.00
	Depreciation 0%		405.00
#87	1 Fairbanks, Morse & Co. 1 1/2" suction 1 1/2" discharge centrifugal pump Freight, haulage and Installation	30.00 <u>5.00</u>	35.00
	Depreciation 0%		<u>35.00</u>
	Total Building #104	<u>14610.50</u>	<u>13971.20</u>

Page 163: Building #104/A

#88	1 Sullivan auto. Drill sharpener, incl. punch attachment and special equipment Freight, haulage and Installation	2250.00 <u>240.00</u>	2490.00
	Depreciation 0%		2490.00
	1 special drill heating furnace, steel plate sides, brick lined Depreciation 10%	85.00	76.50

		Cost of Repro.	Sound Value
	1 concrete forage	50.00	
	Depreciation 0%		<u>50.00</u>
	Total Building #104/A	<u>2625.00</u>	2616.50
 Building \$104/B			
#100	1 Armstrong-Blum Mfg. Co. (Chicago, Ill.) #5-6" x 6" Marvel draw cut saw	350.00	
	Freight, haulage and Installation	35.00	
	Depreciation 10%		346.50
#101	1 floor type double end emery grinder, 1 1/4" x 40" spindle, 5" x 3" tight and loose pulley, round column stand, 2-11 1/2" x 2" emery wheels	45.00	
	Freight, haulage and Installation	<u>12.00</u>	
	Depreciation 10%	57.00	51.30
Page 164:	#102 1 South Bend Lathe Wks. (South Bend, Ind.) 18" x 12' single back geared quick change engine lathe- #37070—with counter-shaft and keyway attachment	815.00	
	Freight, haulage and Installation	<u>162.00</u>	
	Depreciation 0%		977.00
#103	1 Superior March. Tool Co. (Kokomo, Ind.) 28" vertical back geared sliding head drill, power and hand feed—25" adj. table, tight and loose pulley drive	632.50	
	Freight, haulage and Installation	<u>158.00</u>	
	Depreciation 25%	790.50	592.88
#104	1 Oster Mfg. Co. (Cleveland, Ohio) 1/2" to 6" pipe threading and cutting machine, with full equipment and counter-shaft	675.00	
	Freight, haulage and Installation	<u>142.00</u>	
	Depreciation 50%	817.00	408.50
#105	1 Champion Blower & Forge Co. (Lancaster, Pa.) 15" hand power blacksmith's post drill	19.50	
	Freight, haulage and Installation	<u>8.00</u>	
	Depreciation 10%	27.50	24.75
#106	1 Fairbanks, Morse & co. type Z 5 H/P gasoline engine	155.00	
	Freight, haulage and Installation	<u>30.00</u>	
	Depreciation 20%	185.00	148.00
Page 165:	1 welding outfit, consisting of regulator, 1 welding and 1 cutting torch delivered		140.00
	Depreciation 5%		133.00
	1 Denver Rock Drill Co. model 300 Wangoist mine hoist, with 300' - 1/2" wire cable	385.00	
	Freight and haulage	<u>4.00</u>	
	Depreciation 0%		389.00
	Total Building #104/B	<u>3768.00</u>	<u>3070.93</u>
	Total Buildings \$104, 104/A, #104/B	\$21003.50	
	Total Sound Value		<u>\$19658.63</u>
 Page 166: Building #107			
#120	1 F. W. Braum (Los Angeles, Calif.) #23546—with 16" x 2 1/2" tight and loose pulley	125.00	
	Freight haulage, Installation and Millwright work	<u>5.00</u>	
	Depreciation 0%	130.00	130.00
#121	1 F. W. Braum type UA4 pulverizer, #23514	135.00	
	Freight haulage, Installation and Millwright work	<u>5.00</u>	
	Depreciation 0%	140.00	140.00

		Cost of Repro.	Sound Value
#122	1 Westinghouse Elec. & Mfg. Co. 5 H/P motor— 220 volts—12 amps.—1160 R/P/M-3 phase— 60 cycles-frame #254C	79.00	
	Freight, haulage, Installation and Wiring	<u>28.00</u>	107.00
	Depreciation 0%		107.00
#123	1 F. W. Braum laboratory ball mill, #23418	100.00	
	Freight, haulage, Installation	<u>3.50</u>	103.60
	Depreciation 0%		103.50
	Total Building #107		<u>\$ 480.50</u>
	Total Sound Value		<u>\$ 480.50</u>

Page 167: MACHINERY Lake Pump House

#130.	pumping outfit, consisting of 1 Fairbanks, Morse & Co. type Z 2 H/P gasoline engine 1 Myers self-oiling bulldozer pump, 1 1/2" suction, 1 1/2" discharge, #3000— 14" x 5" pulley	142.00	
	1-2" x 10" suction hose	10.40	
	27' - 4" - 4-ply rubber belting	9.45	
	Supports for motor and pump	10.00	
	Freight, haulage and Installation	<u>16.00</u>	\$ 187.85
	Depreciation 10%		<u>\$ 169.07</u>

Page 168: MACHINERY Miscellaneous Structure Page 169: MACHINERY Yard and Outside Page 170: MACHINERY

	Cost of Repro.	Sound Value
Gold Boulder - Prospect shaft steel		
#200	1 Fairbanks, Morse & Co. type 2 3 H/P gasoline engine - geared to 12" x 18" single drum hoist, with 199" 1" cable 375 00	
	Freight, haulage and installation 60 00	
	Supports	
	88' - 8" x 6"	32 00
	8' - 6" x 6"	
	1 - 20' x 4' x 3' steel riveted tank in 8' x 8' x 5' box, 5" dia	15 00
	1 steel drum	5 00
	Flatsaws	5 00
	Piping	20 00
	Steel shaft basket	27 50
	Depreciation 15%	
	767 00	651 28
	1 forge with blower and misc. blacksmith's tools	75 00
	Depreciation 25%	
	75 00	54 22
Gold Boulder - Iron Operation		
#201	1 pumping outfit, consisting of	
	1 Fairbanks, Morse & Co. type 2 3 H/P gasoline engine	
	1 Fairbanks, Morse & Co. 2" centrifugal belt driven pump 183 00	
	12' - 4" - 4-ply rubber belting	5 00
	1 suction hose and valve	15 00
	Supports	5 00
	Freight, Haulage and Installation	15 00
	Depreciation 10%	
	100 00	178 74
	Total -	1041 10
	Total Sound Value	\$ 827 27

#100	Diamond drilling outfit, consisting of	
	1 milliam class v portable gas engine driven diamond drilling machine, engine #600643 - drill #2855 - pump #83084 - located in yard	
	with following extra equipment at machine or in Mdg. #7	4000 00
	1 water swivel size A, with cap 1000 A.R.	15 25
	1 - 30" shoe, with strap and hook	50 00
	1 ball and bolt for hanging shear	7 50
	1 lifting coil and clevis	20 00
	1 hoisting swivel with coupling	25 00
	1 safety clamp, size A	30 00
	500' A drill rod with couplings, 30' lengths	575 00
	1 - 5' A drill rod and coupling	7 00
	1 - 10' single tube A core band	15 25
	4 size A bevel core shells	11 00
	6 A split ring core lifters	7 20
	36 size A blank bits	16 00
	100 single tube bits	68 00
	1 A cross chopping bit, 1 1/2"	9 90
	1 drive pipe chopping bit, 3" pipe	15 75
	1 size A mud bit, 3" pipe	22 00
	80 2/3' - 3" drive pipe, 10' lengths, with 1 each 2' - 3' and 5'	40 00
	1 steel drive head for 3" pipe	10 50
	1 drive pipe clamp for 3" pipe	14 75
	1 - 300' cast iron drive block, 3 1/2" hole	52 00
	100' - 2" right hand flash joint casing, with couplings in 10' pieces, incl. 1 each 2'-3' and 5'	80 00

Drilling Outfit cont'd	
#100 cont'd	
10 wood casing protectors	4 00
1 casing clamp	10 00
1 bushing A rod to 2" casing	6 05
1 - 10' reamer for 2" casing	29 50
1 reamer face	3 05
6 straight wall shells	15 00
26 bevel bits	19 50
10 A.R.S. long reamers	37 50
8 A short swell couplings	24 00
6 A spring shells	18 00
4 casing bits	14 00
1 pr. clamp jaws	23 00
1 pr. chuck jaws	7 00
2 A jar collars	20 00
6 A rod caps	60 00
6 A rose bits	36 00
1 chuck and bolt	1 50
2 chuck bushings	4 00
1 water swivel nut	2 75
1 - 10' A.R.S. core barrel	60 00
3 - 10' A tubes	36 00
1 - 10' A single tube core barrel	15 00
4 - A rod couplings	7 00
2 A.R.S. couplings	3 50
41 core boxes, 5' long	102 50
1 set diamond setting tools, consisting of 1 - 5" jaw vise, 1 breast drill, 1 pr. 6" calipers, 1 hammer, 12 chisels, punches, 5 twist drills	35 45
1 pipe cutter, 2"	3 00
1 set 1/2" to 1 1/2" stock and dies	14 50
1 - 18" Trize wrench	1 65
3 - 24" "	7 20
2 - 24" Stillson wrenches	4 80
1 - 10" Cogs wrench	1 35
1 - 21" "	3 00
2 - #34 Vulcan chain tongs	20 50
2 jack screws	25 20
2 crane bars	3 00
1 sledge	1 65
1 axe	1 50
1 shovel	1 25
1 auger, file and cold chisel	4 90
1 pick	1 30

Page 171, 172, 173, 174 & 175: MACHINERY

Drilling Outfit cont'd			
#166 cont'd			
3 hand saws	7 50		
1 pr. 1 single and 1 double			
3/4" rope blocks	2 50		
100' - 3/4" manila rope	4 50		
16' - 3/4" chain with hook			
and ring	9 00		
25' - 1" hose	13 20		
6' - 1" - 8-ply hose and			
connection	4 85		
5' - 3/4" - 4-ply drip hose	1 10		
2 oil cans	90		
1 - 2" x 16' suction hose,			
with strainer and fittings	17 20	5865 85	
Depreciation 15%			4985 97
Black Diamonds for Diamond Drill Kept in Vault at Tucson, Arizona 76 Miles from Ruby			
9 stones total	19.69 kts.weight	2953 50	
4 " "	15.49 " "	2323 50	
2 " "	2.28 " "	307 80	
4 " "	4.22 " "	569 70	
2 " "	1.65 " "	140 25	
6 " "	4.01 " "	320 80	
4 " "	2.32 " "	185 60	
3 " "	1.65 " "	123 75	
4 " "	1.09 " "	38 15	
1 pencil 1 stone .71	" "	71 00	
1 " 1 " .40	" "	20 00	7054 05
Depreciation 0%			7054 05
Freight and Haulage			
		195 00	
Depreciation 15%			165 75
		<u>13114 90</u>	<u>12205 77</u>
#169	1 Little Wonder		
	1/2 yard concrete mixer on		
	4 steel wheels, with		
	gasoline engine drive		
	Installed	1500 00	
	Depreciation 35%		975 00

			Cost of	Sound
			Repro.	Value
#170	1 (same as #169)			
	1/2 yard			
	Installed		480 00	
	Depreciation 35%			312 00
			<u>15064 90</u>	<u>12473 27</u>
South of Bldg. #103				
#150	1 boiler iron air tank,			
	3' dia., 7' high, 1/2" metal,			
	double vertical riveted, 1/2"			
	head, 2 - 5" connections			
	Installed		410 00	
	Depreciation 0%			410 00
#181	1 (same as #150)			
	3'6" dia., 7' high			
	Installed		445 00	
	Depreciation 0%			445 00
			655 00	655 00
East of Bldg. #100				
#152	2 steel welded oil tanks,			
153	30" dia., 9' long, 3/16" side,			
	1/2" heads, welded			
	Installed		85 00	
	Foundations:			
	4 - 8' x 8' x 8' timbers		17 00	
			<u>102 00</u>	
	Depreciation 0%			204 00
			204 00	204 00
North of Bldg. #103				
#154	1 Deer thickener -			
	60" dia., with wood tank,			
	steel bridge and mechanism -			
	not erected at date of			
	appraisal		2870 00	
	Freight and Haulage		400 00	
	Depreciation 0%			2870 00
			2870 00	2870 00

			Cost of	Sound
			Repro.	Value
North of Bldg. #103 cont'd				
#155	1 Deer thickener -			
	15' dia., with wood tank,			
	steel bridge and mechanism,			
	not erected at date of			
	appraisal		1100 00	
	Freight and Haulage		190 00	
	Depreciation 0%			1290 00
			4160 00	4160 00
West of Bldg. #107				
#156	1 C.F. Brass			
	patent water cooling tower,			
	11' x 22' - 11 sections			
	high		696 00	
	Freight, Haulage			
	and installation		315 00	
	Depreciation 0%			1011 00
			1011 00	1011 00
#157	2 steel welded oil tanks,			
158	9' x 14' - 1/2" head, 3/16"			
	sides and manhole, esp.			
	750 gallons			
	Installed		510 00	
	Depreciation 0%			1020 00
			2031 00	2031 00
East of Bldg. #104/A				
#159	1 steel riveted oil tank,			
	2'6" dia., 6' long, 1/2" metal -			
	2 - 5" flanged outlets			
	Installed		120 00	
	Depreciation 0%			120 00

			Cost of	Sound
			Repro.	Value
Lower Dam Water Wall				
#160	1 pumping outfit below			
	dam, consisting of			
	1 Fairbanks, Morse & Co.			
	type 10 H/P 600 R/P/W			
	gasoline engine			
	1 Myers 5' x 4" bulldozer			
	type enclosed belt driven			
	pump, 14' x 2' tight and			
	loose pulley		142 00	
	9' - 3" - 4-ply rubber			
	belting		0 80	
	Freight, Haulage,			
	installation and			
	millwright work		16 00	
	Depreciation 35			168 40
			160 82	168 40
On Hill South of Hill				
#161	3 galv. sheet iron water			
162	tanks, 7'6" dia., 7'6" high,			
163	1/16 metal, riveted and			
	soldered			
	Installed		145 00	
	Timbering		20 00	
	Depreciation 0%			465 00
			465 00	465 00
On Hills Northeast of Town				
#164	2 (same as #161)			
165	Installed		145 00	
	Timbering		20 00	
	Depreciation 0%			330 00
			330 00	330 00
Crusher Plant Southwest of Bldg. #9				
#167	1 18" jaw crusher, 48"			
	fly-wheel, 14' x 20' iron			
	pulley, incl. freight,			
	haulage, installation and			
	millwright work			
	Depreciation 35%		550 00	
			550 00	550 00
#168	1 Roadstead			
	(Tucson, Arizona)			
	old style gasoline engine,			
	45" fly-wheel, 16' x 6"			
	pulley, incl. freight,			
	haulage and installation			
	Depreciation 40%		400 00	
			950 00	950 00
			950 00	950 00
Total -			\$24370 42	
Total Sound Value				\$22418 26

Page 176: EXTRA MACHINERY UNUSED BUT USEFUL Yard and Outside

Page 177: SHAFTING, PULLEYS AND BELTING Building #101

	Cost of	Sound
	Repro.	Value
South of Bldg. #102		
1 Gardner Governor Co. (Quincy, Ill.) 12XD size 11" x 18" air pump - 250 R/P/M - 100# pressure - #18257	960 00	
Freight and Cartage	165 00	
Depreciation 30%		\$ 787 50
	\$1125 00	

Shaft - Erected		
32'	3 7/16" shafting	\$ 45 44
2	safety set collars	2 16
1	flanged face coupling	20 79
5	pillow blocks, ring oiling Alemite	67 25
		<u>135 64</u>
	Freight, Cartage and Installation	54 26
		<u>189 90</u>
	Depreciation 0%	
	Sound Value	189 90

Page 178: SHAFTING, PULLEYS AND BELTING Building #101

Shaft - Material on Ground Not Installed		
19'	2 7/16" shafting	11 88
2	collars	1 00
1	flanged face coupling	11 18
3	pillow blocks, plain Alemite	9 84
		<u>34 20</u>
	Depreciation 0%	
	Sound value	34 20
Pulleys - On Ground Not Erected		
1	8" x 8"	3 70
1	24" x 16"	13 35
1	24" x 8"	11 22
		<u>28 25</u>
	Depreciation 0%	
	Sound Value	28 25
Belting - On Ground Not Erected		
58'	6" - 6-ply rubber	21 23
37	8" - 5-ply "	24 27
18	10" - 6-ply "	18 90
		<u>66 45</u>
	Depreciation 0%	
	Sound Value	66 45
	Total Building #101	\$1140 68
	Total Sound Value	\$1140 68

Pulleys - Erected		
1	18" x 8"	11 00
1	40" x 14"	39 53
1	14" x 10"	6 85
1	26" x 14"	22 31
1	6" x 4"	2 85
1	32" x 12"	22 83
1	6" x 4"	2 83
1	32" x 12"	22 83
1	78" x 16"	130 06
		<u>261 25</u>
	Freight, Cartage and Installation	39 19
		<u>300 44</u>
	Depreciation 0%	
	Sound Value	300 44
Belting - On Ground Not Installed		
96'	16" - 6-ply rubber	162 24
60	14" - 6-ply "	88 80
55	14" - 6-ply "	81 40
140	12" - 6-ply "	176 40
42	4" - 4-ply "	12 60
		<u>521 44</u>
	Depreciation 0%	
	Sound Value	521 44

Page 179: SHAFTING, PULLEYS AND BELTING, Building #102
Page 180 below left: same as 179, except building #103

Shaft - Drives Tables		
80'	2 7/16" shafting	\$ 52 80
2	safety set collars	1 30
3	flanged face couplings	33 54
9	pillow blocks, plain Alemite	29 52
		<u>117 16</u>
	Depreciation 0%	
	Sound Value	117 16
Pulleys - Not Installed		
8	20" x 10" steel	81 60
1	48" x 12" steel	45 90
		<u>127 50</u>
	Depreciation 0%	
	Sound Value	127 50
Belting - Not Installed		
76'	12" - 6-ply rubber	95 76
240	6" - 5-ply "	134 40
		<u>230 16</u>
	Depreciation 0%	
	Sound Value	230 16
Belting - Between Machines		
108'	20" - 6-ply rubber	223 58
16	3" - 4-ply "	3 88
31	4" - 4-ply "	9 30
		<u>236 54</u>
	Depreciation 0%	
	Sound Value	236 54

Shaft - Cont'd from Bldg. #101		
19'	2 7/16" shafting	\$ 11 88
2	collars	1 30
3	pillow blocks	9 09
		<u>22 27</u>
	Depreciation 0%	
	Sound Value	22 27
Pulleys - On Ground Not Erected		
1	14" x 8" steel	5 99
1	20" x 6" steel	7 65
1	18" x 8" steel	7 91
		<u>21 55</u>
	Depreciation 0%	
	Sound Value	21 55
Belting - On Ground Not Erected		
19'	8" - 5-ply rubber	12 78
36	8" - 5-ply "	25 56
60	6" - 5-ply "	33 60
		<u>71 94</u>
	Depreciation 0%	
	Sound Value	71 94
	Total Building #102	\$ 115 76
	Total Sound Value	\$ 115 76

Page 181, 182, 183: SHAFTING, PULLEYS AND BELTING Building #103 cont'd.

Main Drive Shaft		
21'	4 15/16" shafting	75 60
87'	3 7/16" shafting	123 54
1	safety set collar	2 12
2	safety set collars	2 16
3	flanged couplings	62 37
3	pillow blocks, ring oiling Alemite	48 00
9	pillow blocks, plain Alemite	65 61
1	#90 Smith type hill clutch	193 20
		<u>572 60</u>
	Freight, Cartage and Installation	200 41
		<u>773 01</u>
	Depreciation 0% Sound Value	773 01
		773 01
Pulleys - Not Installed		
1	72" x 18" steel	135 70
1	36" x 10" "	24 35
1	18" x 8" "	7 91
1	72" x 24" "	222 61
1	10" x 8" "	4 46
1	12" x 6" "	4 53
8	26" x 6" "	86 00
1	10" x 6" "	3 95
1	14" x 6" "	5 23
2	26" x 6" "	20 32
2	26" x 4" "	16 24
1	46" x 6" "	29 05
1	48" x 10" "	41 44
1	36" x 12" "	28 69
		<u>629 48</u>
	Depreciation 0% Sound Value	629 48
		629 48
Belting - Not Installed		
103'	36" - 6-ply rubber	561 60
55	18" - 6-ply "	104 50

Belting - Not Installed cont'd		
36'	8" - 5-ply rubber	24 85
31	8" - 5-ply "	22 01
17	8" - 5-ply "	12 07
30	8" - 5-ply "	21 30
240	6" - 5-ply "	134 40
40	6" - 5-ply "	22 40
95	6" - 5-ply "	53 20
84	4" - 4-ply "	25 20
58	10" - 6-ply "	60 90
		<u>1042 43</u>
	Depreciation 0% Sound Value	1042 43
		1042 43
Filter Drive Shaft - Not Installed		
20 1/2'	2 7/16" shafting	13 53
2	safety set collars	1 30
1	flanged face coupling	11 18
3	pillow blocks	9 09
		<u>35 10</u>
	Depreciation 0% Sound Value	35 10
		35 10
Pulleys - Not Installed		
2	12" x 2" steel	7 14
2	6" x 4" "	5 86
1	24" x 6" " driven	9 31
		<u>22 31</u>
	Depreciation 0% Sound Value	22 31
		22 31
Belting - Not Installed		
36'	4" - 4-ply rubber	10 80
18	6" - 5-ply "	10 08
40	1" - 3-ply "	2 40
		<u>23 28</u>
	Depreciation 0% Sound Value	23 28
		23 28

Diaphragm Pump Drive Shaft - On Ground Not Installed		
30'	2 7/16" shafting	19 80
2	collars	1 30
1	flanged coupling	11 18
4	pillow blocks, plain Alemite	13 12
		<u>45 40</u>
	Depreciation 0% Sound Value	45 40
		45 40
Pulleys - On Ground Not Installed		
1	6" x 4" steel	2 93
1	14" x 6" "	5 23
1	4" x 4" "	2 24
		<u>10 40</u>
	Depreciation 0% Sound Value	10 40
		10 40
Belting - Not Installed		
17'	6" - 5-ply rubber	9 52
90	4" - 4-ply "	27 00
		<u>36 52</u>
	Depreciation 0% Sound Value	36 52
		36 52
	Total Building #103	\$3329 29
	Total Sound Value	<u>\$3329 29</u>

Page 184: SHAFTING, PULLEYS AND BELTING Building #104/B

Main Shaft		
55'	1 15/16" shafting	\$ 24 94
2	safety set collars	1 00
2	flanged couplings	17 06
8	pillow blocks	16 32
		<u>59 28</u>
	Freight, Cartage and Installation	53 35
		<u>112 63</u>
	Depreciation 0% Sound Value	112 63
		112 63
Pulleys		
1	8" x 4" steel	3 32
1	24" x 3" "	6 38
1	9" x 6" "	4 34
1	18" x 3" "	4 72
1	8" x 4" "	3 32
		<u>22 08</u>
	Freight, Cartage and Installation	6 62
		<u>28 70</u>
	Depreciation 0% Sound Value	28 70
		28 70
Belting		
25'	4" single leather	16 00
12	2 1/2" double "	9 12
25	3" - 4-ply rubber	5 75
21	3" - 4-ply "	4 83
16	4" - 5-ply "	5 92
16	3" - 4-ply stitched canvas	3 68
16	3 - 4-ply rubber	3 68
		<u>47 98</u>
	Freight, Cartage and Installation	14 39
		<u>62 37</u>
	Depreciation 0% Sound Value	62 37
		62 37

Page 185: SHAFTING, PULLEYS AND BELTING
Building #104/B Building cont'd.

Page 186: PIPING Building #102

Shaft		
20'	1 18/16" shafting	8 60
2	collars	1 00
3	pillow blocks	6 12
		<u>15 72</u>
	Freight, Cartage and Installation	14 15
		<u>29 87</u>
	Depreciation O%	
	Sound Value	29 87
Pulleys		
1	28" x 6" steel	10 97
1	18" x 4" "	5 42
1	6" x 4" "	2 93
		<u>19 32</u>
	Freight, Cartage and Installation	5 80
		<u>25 12</u>
	Depreciation O%	
	Sound Value	25 12
Belting		
18'	2 1/2" double leather	13 68
27	3" - 4-ply rubber	8 21
22	2" - 4-ply "	5 74
		<u>23 53</u>
	Freight, Cartage and Installation	7 09
		<u>30 72</u>
	Depreciation O%	
	Sound Value	30 72
	Total Building #104/B	\$ 289 41
	Total Sound Value	<u>\$ 289 41</u>

Page 187: PIPING Building #104—104/A—104/B

Water and Air		
5'	1 1/2" galv. pipe	25
15	" "	90
10	" "	70
40	1" "	4 40
30	1 1/2" "	4 80
150	2" "	34 10
100	3" "	46 00
2	1 1/2" elbows	52
2	" "	76
1	1" tee	20
2	angle valves	2 00
1	globe valve	1 46
2	check valves	4 74
2	check valves	14 56
		<u>115 39</u>
	Installation	69 23
		<u>\$ 184 62</u>
	Total Buildings #104 - 104/A and 104/B	\$ 184 62
	Depreciation O%	
	Sound Value	<u>\$ 184 62</u>

Page 189: FACTORY FURNITURE AND FIXTURES Building #102

1	Yale model SS 2-ton spur geared chain block	\$ 103 00
	Depreciation O%	
	Sound Value	<u>\$ 103 00</u>

Water, Oil and Air		
20'	1 1/2" galv. pipe	\$ 1 00
28	" "	1 68
55	" "	3 85
100	1" "	11 00
298	1 1/2" "	47 68
270	2" "	59 40
60	2 1/2" "	21 00
30	3" "	13 80
270	4" "	183 60
130	6" "	156 00
6	2 1/2" elbows	4 08
5	1 1/2" tees	1 90
4	" "	9 36
1	" "	5 36
2	2 1/2" flanged unions	3 86
6	check valves	7 08
3	globe valves	6 00
1	" "	2 55
11	1 1/2" "	55 11
2	2" "	15 92
1	2 1/2" iron body globe valve	5 57
1	" " gate valve	13 21
1	" " globe valve	29 61
	Installation	653 82
		<u>395 29</u>
	Total Building #102	\$1054 11
	Depreciation O%	
	Sound Value	<u>\$1054 11</u>

Page 188: PIPING Yard and Outside

Between Tanks on Hill South of Plant		
250'	1 1/2" black pipe and fittings	\$ 30 00
300	1 1/2" " "	42 00
800	2" galv. pipe and fittings	184 00
200	3" " "	98 00
	Installation	352 00
		<u>211 20</u>
	Depreciation O%	
	Sound Value	563 20
		563 20
From Lower Dam to Upper Dam		
3400'	4" outside dia. casing pipe, laid on ground, second hand material strung out but not connected to be welded	850 00
	Depreciation O%	
	Sound Value	850 00
From Lower Dam to Gold Boulder		
6400'	4" outside dia. casing pipe, laid on ground, second hand pipe not connected to be welded	1600 00
	Depreciation O%	
	Sound Value	1600 00
On Ground		
	Not Installed	
120'	1 1/2" galv. pipe	6 00
100	1" "	5 00
2000	1" "	220 00
360	1 1/2" "	57 60
940	2" "	206 80
80	3" "	36 80
1024	4" "	696 32
770	6" "	924 00
		<u>2152 52</u>
	Depreciation O%	
	Sound Value	2152 52
		<u>\$5165 72</u>
	Total	\$5165 72
	Total Sound Value	<u>\$5165 72</u>

Page 190: FACTORY FURNITURE AND FIXTURES
Building #104

Page 191: FACTORY FURNITURE AND FIXTURES
Building #104/A cont'd.

1	Yale 1-ton triplex chain block	\$ 65 00	
2	gasoline lanterns	13 00	
2	copper oilers	1 00	
	Total Building #104	79 00	
	Depreciation 0%		
	Sound Value		79 00

Building #104/A

2	150# anvils	57 00	
1	10# sledge	1 50	
3	2# ball pein hammers	3 00	
1	8" sledge	1 20	
1	shovel	1 10	
1	pick	1 00	
1	6" jaw blacksmith's box vise	16 50	
1	round nose shovel	1 10	
22	blacksmith's flatters, rounders, cutters, etc., ave. 1 1/2"	18 50	
6	pr. pick-up tongs, ave. 24"	8 10	
2	files	1 00	
15'	1/2" air hose	5 85	
1	hack-saw	1 20	
1	shovel	1 50	
1	26" hand saw	2 00	

1	iron trough	10 00	
1	wood trough	3 00	
1	30" x 15' bench	10 00	
1	cupboard	3 50	
1	drill rack, 2" x 6" material	4 00	
1	gasoline lantern	6 50	
20'	3/8" chain	2 40	
20'	5/8" chain	6 80	
	Total Building #104/A	164 55	
	Depreciation 20%		
	Sound Value		131 64

Building #104/B

1	2" x 16" locomotive screw jack	4 65	
3	lathe dogs, ave. 1 1/2"	2 58	
1	5" clipper belt lacer	26 00	
1	6# sledge	1 00	
1	shovel	1 10	
13	taper shank drills, 1/2" to 1"	10 40	
11	taper shank drills, 3/16" to 7/16"	3 08	
1	taper shank drill, 1 1/2"	3 40	
3	2" to 3" drill sockets	2 13	
1	Vulcan #2 chain pipe vise	8 50	
1	Vulcan #3 chain pipe vise	14 50	

Page 192, 193: FACTORY FURNITURE AND FIXTURES
Building #104/B cont'd.

1	Crane #2 pipe stock and dies	7 60	
1	Toledo #1A pipe stock and dies	13 00	
1	Armstrong #2 stock and dies	7 60	
1	Barnes 3" pipe cutter, 3 wheels	5 50	
1	Barnes 2" pipe cutter, 3 wheels	3 50	
1	Trimo 36" wrench	5 00	
1	Independent 12" - 4-jaw lathe chuck	52 00	
1	Trimo 10" wrench	85	
1	Armstrong #3 pipe stock and dies	13 00	
1	24" x 3/8" capacity screw plate	4 25	
1	pr. 30" pick-up tongs	1 50	
1	Barcalo model N15 wrench	2 30	
1	Morgan 5" jaw swivel base vise	24 50	
1	14" double end wrench	1 10	
1	1-qt. blow torch	6 30	
1	12" double end wrench	75	
1	pr. belt punches	50	
1	Thor air drill	217 00	
6	chisel blanks for Thor AA drill	67 50	
1	Standard Improved #3 drill chuck	11 75	
20	1 1/2" x 3/4" x 11" lathe tools	49 00	
1	Armstrong #17 boring tool holder and bit	5 25	

1	Armstrong boring tool, #2B	23 65	
1	Armstrong knurling tool set, #3K	7 00	
1	set packing stands	1 00	
3	3/8" machinist's taps	2 64	
3	3/4" machinist's taps	4 77	
3	1" machinist's taps	6 15	
1	set(4) - 306 dies for Howard bolt cutter	6 00	
1	Standard #1 taper drill socket	57	
1	Standard #2 taper drill socket	71	
1	Standard #3 taper drill socket	91	
1	Standard #4-5 lathe socket	1 37	
1	#388 taper reamer	1 50	
15	cold chisels	7 50	
12	3/8" x 3" high speed bits for Armstrong tool holders	3 60	
20	1/2" x 2 1/2" high speed bits for Armstrong tool holders	2 20	
1	set (8) center drills, 1/32" to 3/16"	1 80	
3	Armstrong offset shank tool holders	10 50	
3	Armstrong cutting off tools	6 00	
1	Fire Eater hand pump extinguisher	9 00	
	Total Building #104/B	673 96	
	Depreciation 15%		
	Sound Value		572 87
	Total Buildings #104, #104/A and #104/B	\$ 917 51	
	Total Sound Value		\$ 783 51

Page 194: FACTORY FURNITURE AND FIXTURES
Building #105

Stock shelving, desk, stove, misc. files, fire extinguishers	\$ 500 00
Depreciation 0%	
Sound Value	<u>\$ 500 00</u>

Page 196: FACTORY FURNITURE AND STORE FIXTURES
Away from Plant

At Road Camp	
4 iron cots	\$ 24 00
4 cot mattresses	22 00
3 sheet iron stoves and pipe	10 50
1 cook stove	<u>15 00</u>
Total	\$ 71 50
Depreciation 20%	
Sound Value	<u>\$ 57 20</u>

Page 198: TENTS Away from Plant

At Road Camps	
1 14' x 18' - 10 oz. duck wall tent	\$ 36 00
1 12' x 18' - 10 oz. duck wall tent	<u>25 00</u>
Total	\$ 61 00
Depreciation 20%	
Sound Value	<u>\$ 48 80</u>

Page 200: UNUSED MACHINERY NOT USEFUL
Yard and OUTSIDE

	Market Value
Northeast of Bldg. #102	
1 Rix Compressed Air & Drill Co. (San Francisco, Cal.) portable churn drilling outfit - on 4 steel wheels consisting of 9" x 6" compressor - #1005 - with Climax model T #3400 Trustworthy gasoline engine - 24" x 42" steel air receiver	<u>\$ 500 00</u>

Page 195: FACTORY FURNITURE AND FIXTURES
Away from Plant

At Road Camp	
10 picks	\$ 10 00
10 shovels	11 00
6 jacks	90 00
6 pieces 3/4" x 2'6" steel bars	<u>3 00</u>
Total	\$ 114 00
Depreciation 20%	
Sound Value	<u>\$ 91 20</u>

Page 197: TELEPHONE LINE

1 telephone line from Forest service station 6 miles from Nugulas, Arizona to Ruby, about 25 miles of pole line strung over mountains The Eagle-Picher Lead Company's Equity	\$1237 72
Depreciation 10%	
Sound Value	<u>\$1113 95</u>

Page 199: UNUSED MACHINERY NOT USEFUL Building #104
(None) Building #104/B

1 Howard Iron Wks. (Buffalo) New Series #5 1/2 bolt machine - 2" cap. - with full set of dies and counter-shaft	No Value
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Page 201: CAMP PROPERTY—CONSTRUCTION

BUILDING #3	
Designated as Dwelling	
One-story adobe brick construction	
28'0" x 34'0"	
First story 10'0" high	
gable 5'0" high	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	35 19
FOUNDATION	
Walls - 12" thick 2'0" high adobe brick	<u>107 64</u>
Total Cost Below Ground	142 83
Total Sound Value	82 84
ABOVE GROUND	
WALLS	
2 sides and 2 ends 12" adobe brick, plastered inside 10'0" high and 13'0" high with panel doors and plank frame windows	
Interior 12" thick adobe brick 10'0" high, plastered 2 sides	719 88
FLOOR	
2" concrete 3/4" with cement finish Ceiling - 1" D&M on 2" x 4" joists 5'0" centers	
	220 00
ROOF	
Corru. galv. iron roofing 1" x 6" lining and 2" x 4" rafters 2'0" centers	
	294 00
Total Cost Above Ground	1271 94
Total Sound Value	<u>826 78</u>
Total Cost Building #3	\$1414 77
Depreciation 35%	
Total Sound Value	<u>\$919 60</u>

Page 202, 203, 204 & 205: CONSTRUCTION

BUILDING #4	
Designated as Dwelling	
One-story adobe brick construction	
13'6" x 27'6"	
First Story 10'0" high Gable 4'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	16 70
FOUNDATION	
Walls - 12" thick 2'0" high adobe brick	<u>37 05</u>
Total Cost Below Ground	53 75
Total Sound Value	40 31
ABOVE GROUND	
WALLS	
2 sides and 2 ends 12" thick adobe brick plastered inside, with windows and doors 10'0" high and 12'0" av. height with panel doors and plank frame windows	
Interior 12" thick 10'0" high adobe brick plastered 2 sides with panel door	347 62
FLOOR	
2" concrete with 1/2" cement finish Ceiling - 1" D&M, painted, on 2" x 4" joists 2'0" centers	133 56

Building #4 cont'd	
ROOF	
Corru. galv. iron roofing 1" x 6" lining and 2" x 4" rafters 2'6" centers	<u>135 00</u>
Total Cost Above Ground	616 18
Total Sound Value	<u>462 14</u>
Total Cost Building #4	\$669 93
Depreciation 25%	
Total Sound Value	<u>\$502 45</u>

BUILDING #5	
Designated as Dwelling	
One-story adobe brick construction	
15'0" x 28'6"	
First Story 9'6" high Gable 3'6" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	32 31
FOUNDATION	
Walls - 12" thick 2'0" high adobe brick	<u>39 78</u>
Total Cost Below Ground	72 09
Total Sound Value	57 67
ABOVE GROUND	
WALLS	
2 sides and 2 ends 12" thick 10'0" high adobe brick, plastered inside 1" x 7" baseboard, panel doors and plank frame windows	
Interior 12" thick 10'0" high adobe brick, plastered 2 sides 1" x 7" baseboard with panel doors	
Gable corru. galv. iron siding, 2" x 6" studs 2'0" centers 1'9" av. height	
Piazza 3'0" high 12" adobe brick	407 32
FLOORS	
1" x 4" D&M flooring 2" x 6" joists 24" centers ceiling, 1" x 6" D&M 2" x 6" joists	177 62

Building #5 cont'd	
ROOF	
Corru. galv. iron roofing 1" x 6" board lining on 2" x 4" rafters 2'0" centers	<u>153 00</u>
Total Cost Above Ground	737 94
Total Sound Value	<u>590 35</u>
Total Cost Building #5	\$810 03
Depreciation 20%	
Total Sound Value	<u>\$648 02</u>

Page 206, 207 & 208: CONSTRUCTION

BUILDING #6	
Designated as Dwelling	
One-story adobe brick construction	
14'0" x 30'0"	
First Story 10'6" high	
Gable 4'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	32 40
FOUNDATION	
Walls - 12" x 2'0" adobe brick	<u>39 78</u>
Total Cost Below Ground	72 18
Total Sound Value	50 53
ABOVE GROUND	
WALLS	
2 sides and 2 ends 12" thick 10'6" high adobe brick, plastered inside 1" x 7" base with paneled doors and plank frame windows	
Interior 12" thick 10'6" high adobe brick, plastered 2 sides 1" x 7" baseboard with panel door	
Gable corru. galv. iron siding 2" high on 2" x 6" studs 2'0" centers	434 24
FLOOR	
1" D&M flooring on 2" x 6" joists 2'0" centers Ceiling - 1" D&M on 2" x 6" joists 2'0" centers	164 80
Building #6 cont'd	
ROOF	
Corru. galv. iron roofing 1" x 6" lining, 2" x 4" rafters 2'0" centers	148 50
EXTERIOR FIXTURES	
12" thick 3'0" high adobe brick wall	<u>34 02</u>
Total Cost Above Ground	801 56
Total Sound Value	<u>561 09</u>
Total Cost Building #6	\$873 74
Depreciation 30%	
Total Sound Value	<u>\$611 62</u>

BUILDING #7	
Designated as Dwelling and Hospital	
One-story adobe brick construction	
23'0" x 34'0"	
8'6" to 10'6" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'0" av. depth	23 46
FOUNDATION	
Walls - 12" thick 2'0" high adobe brick	<u>74 88</u>
Total Cost Below Ground	98 34
Total Sound Value	59 00
ABOVE GROUND	
WALLS	
2 sides and 2 ends 12" thick adobe brick plastered inside 10'6" high, 8'6" high and 9'6" av. height, with panel doors and 1 1/2" windows	
Interior 12" thick 9'6" av. height adobe brick, plastered 2 sides with paneled doors	758 42
FLOOR	
2" concrete, 1/2" cement finish	117 30
ROOF	
Prepared roofing on 1" common board lining on 2" x 4" rafters 2'0" centers	<u>157 50</u>
Total Cost Above Ground	1033 22
Total Sound Value	<u>619 93</u>
Total Cost Building #7	\$1131 56
Depreciation 40%	
Total Sound Value	<u>\$678 93</u>

Page 209, 210, 211 & 212: CONSTRUCTION

BUILDING #8	
Designated as School House	
One-story adobe brick and frame construction	
12'0" x 17'0" adobe 12'0" x 12'0" frame 8'0" to 10'6" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'0" av. depth	10 44
FOUNDATION	
Walls - 12" thick 2'0" high adobe brick	<u>22 62</u>
Total Cost Below Ground	33 06
Total Sound Value	24 80
ABOVE GROUND	
WALLS	
1 side and 2 ends 12" thick 9'3" av. height adobe brick, plastered inside plank frame windows and panel doors	
2 sides and 1 end 1" x 6" siding, painted 2" x 4" studs 2'0" centers 4" x 4" sill, 2" x 4" plate 9'3" av. height with plank frame windows and panel doors	356 52
FLOOR	
1" D&M flooring 2" x 4" sleepers	69 60
ROOF	
Prepared roofing, 1" common board lining and 2" x 4" rafters 2'0" centers	106 40
Building #8 cont'd	
EXTERIOR FIXTURES	
Adobe brick chimney	<u>20 00</u>
Total Cost Above Ground	552 52
Total Sound Value	<u>414 39</u>
Total Cost Building #8	\$585 58
Depreciation 25%	
Total Sound Value	<u>\$439 19</u>

BUILDING #9	
Designated as Boarding House	
One-story adobe brick and frame construction	
32'0" x 40'0" incl. Addition 12'0" x 15'0"	
First Story 10'0" high Gable 6'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	73 80
FOUNDATION	
Walls - 12" thick 2'0" high adobe brick	<u>97 11</u>
Total Cost Below Ground	170 91
Total Sound Value	128 18
ABOVE GROUND	
WALLS	
2 sides and 2 ends main portion 12" thick 10'0" and 15'0" high adobe brick, plastered inside with panel doors and plank frame windows	
Interior 12" thick 15'0" high adobe brick, plastered 2 sides with panel doors	
Addition 12" thick 8'0" high adobe brick, 1" board siding on 2" x 4" frame 4'0" high	945 26
Building #9 cont'd	
FLOOR	
1" x 4" D&M flooring on 2" x 4" sleepers	313 90
ROOF	
Prepared roofing 1" common board lining and 2" x 6" rafters 24" centers	360 36
INTERIOR FIXTURES	
Adobe brick fireplace	50 00
EXTERIOR FIXTURES	
9'6" x 18'0" covered porch	<u>45 00</u>
Total Cost Above Ground	1714 52
Total Sound Value	<u>1285 89</u>
Total Cost Building #9	\$1885 43
Depreciation 25%	
Total Sound Value	<u>\$1414 07</u>

Page 213, 214 & 215: CONSTRUCTION

BUILDING #10	
Designated as Dwelling	
One-story adobe brick construction	
14'0" x 27'0"	
incl.	
Addition 15'0" x 18'0"	
9'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	38 88
FOUNDATION	
Walls -	
12" thick 2'0" high adobe brick	51 87
Total Cost Below Ground	90 75
Total Sound Value	45 38
ABOVE GROUND	
WALLS	
2 sides and 2 ends	
2 sides and 1 end of addition	
12" thick 10'0" av. height adobe brick with panel doors and plank frame windows	292 29
FLOORS	
1" D&M 2" x 4" sleepers	56 70
ROOF	
Prepared roof 1" common board lining, 2" x 6" rafters 24" centers	161 91
EXTERIOR FIXTURES	
Shed lean-to	50 00
Total Cost Above Ground	560 90
Total Sound Value	280 45
Total Cost Building #10	\$651 65
Depreciation 50%	
Total Sound Value	\$325 83

BUILDING #11	
Designated as Garage	
One-story adobe brick construction	
27'0" x 27'0"	
First Story 8'6" high	
Gable 8'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	32 81
FOUNDATION	
Walls -	
12" thick 2'0" high adobe brick	59 39
Total Cost Below Ground	72 20
Total Sound Value	36 10
ABOVE GROUND	
WALLS	
Part 2 sides, 2 ends and interior	
12" thick 8'6" high adobe brick with batten doors and panel doors	
Gable	
4'0" av. height black sheet iron on 2" x 6" studs 3'0" centers	130 96
FLOOR	
2" concrete	65 61
ROOF	
Corru. galv. iron roofing on 1" x 8" board lining 3'0" centers	
2" x 6" rafters 3'0" centers supported on 2" x 6" stud 8'0" high 3'0" centers	317 24

Building #11 cont'd	
FIXTURES	
Lean-to	
8'6" x 27'0" corru. galv. iron roofing on 1" x 8" board lining, 3'0" centers 2" x 4" rafters 3'0" centers, 4 posts 3" x 6" x 7'0"	73 20
Total Cost Above Ground	637 01
Total Sound Value	318 51
Total Cost Building #11	\$709 21
Depreciation 50%	
Total Sound Value	\$354 61

Page 216, 217, 218 & 219: CONSTRUCTION

BUILDING #12	
Designated as Dwelling	
One-story adobe brick construction	
27'0" x 54'0"	
First Story 10'0" high	
Gable 7'0" high	
- - -	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	65 61
FOUNDATION	
Walls -	
12" thick 2'0" high adobe brick	<u>94 77</u>
Total Cost Below Ground	160 88
Total Sound Value	104 25
- - -	
ABOVE GROUND	
WALLS	
2 sides and 2 ends	
12" thick 10'0" to 13'6" high adobe brick, plastered 1 side with plank frame windows and panel doors	
Interiors	
12" thick 10'0" high adobe brick, plastered 2 sides	
1" D&M 2" x 4" frame 10'0" high	1036 53
FLOOR	
2" concrete	
1/2" cement finish	218 70
- - -	
Building #12 cont'd	
ROOF	
Corru. galv. iron roofing, 1" board lining and 2" x 4" rafters 2'6" centers	<u>528 00</u>
Total Cost Above Ground	1783 23
Total Sound Value	<u>1159 10</u>
Total Cost Building #12	\$1943 61
Depreciation 35%	
Total Sound Value	<u>\$1263 35</u>

BUILDING #13	
Designated as Dwelling	
One-story adobe brick construction	
14'0" x 29'0"	
First Story 10'6" high	
Gable 4'0" high	
- - -	
BELOW GROUND	
EXCAVATION	
Entire area 1'0" av. depth	12 18
FOUNDATION	
Walls -	
12" thick 2'0" high adobe brick	<u>39 00</u>
Total Cost Below Ground	51 18
Total Sound Value	38 39
- - -	
ABOVE GROUND	
WALLS	
2 sides and 1 end	
12" thick 10'6" and 12'6" high adobe brick, plastered inside with plank frame windows and panel doors	
Interior	
12" thick 10'6" high adobe brick, plastered 2 sides	305 30
FLOOR	
2" concrete, 1/2" cement finish	
Ceiling - 1" D&M, 2" x 4" 2'0" centers	133 98
ROOF	
Corru. galv. iron roofing	
1" x 6" board lining, 2" x 4" rafters 2'6" centers	141 60
- - -	
Building #13 cont'd	
EXTERIOR FIXTURES	
Adobe brick chimney	<u>25 00</u>
Total Cost Above Ground	605 88
Total Sound Value	<u>454 41</u>
Total Cost Building #13	\$657 06
Depreciation 25%	
Total Sound Value	<u>\$492 80</u>

Page 220, 221, 222 & 223: CONSTRUCTION

BUILDING #14	
Designated as Dwelling	
One-story adobe brick construction	
14'6" x 29'0"	
First Story 10'0" high	
Gable 4'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	32 40
FOUNDATION	
Walls -	
12" thick 2'0" high adobe brick	39 39
Total Cost Below Ground	71 79
Total Sound Value	53 84
ABOVE GROUND	
WALLS	
2 sides and 2 ends	
12" thick 10'0" and 12'0" high adobe brick, plastered inside with plank frame windows and panel doors	344 50
FLOOR	
1" D&M flooring on 2" x 4" sleepers	
Ceiling - 1" D&M, painted, on 2" x 4" joists 2'0" centers	163 80
ROOF	
Corru. galv. iron roofing	
1" x 6" board lining	
2" x 4" rafters 2'6" centers	288 00

BUILDING #15	
Designated as Office	
One-story frame construction	
14'4" x 40'6"	
To Floor 2'6" high	
To Eaves 9'0" high	
Gable 5'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	25 52
FOUNDATION	
Piers -	
Loose stone and wood blocking	15 00
Total Cost Below Ground	40 52
Total Sound Value	40 52
ABOVE GROUND	
WALLS	
2 sides and 2 ends	
9'0" and 11'6" high	
1" x 6" siding, painted	
2" x 4" studs 2'0" centers	
1" D&M inside lining, painted with 1 1/2" windows and panel doors	
Interior	
9'0" high	
1" x 6" D&M, painted 2 sides	
2" x 4" studs 2'0" centers with panel door	667 27
FLOOR	
1" D&M flooring, 2" x 6" joists	
2'0" centers	
Ceiling - 1" D&M, painted	
2" x 4" joists 2'0" centers	226 80

Building #15 cont'd	
ROOF	
Corru. galv. iron roofing	
1" common board lining	
2" x 4" rafters 2'0" centers	310 80
INTERIOR FIXTURES	
4" high M&D rail with gate	12 50
EXTERIOR FIXTURES	
Steep 5'0" x 14'0" with 5 steps	15 00
Total Cost Above Ground	1232 37
Total Sound Value	1232 37
Total Cost Building #15	\$1272 89
Depreciation 0%	
Total Sound Value	\$1272 89

Building #14 cont'd	
EXTERIOR FIXTURES	
Piazza wall 3'0" high	
12" thick adobe brick	17 15
Total Cost Above Ground	813 45
Total Sound Value	610 09
Total Cost Building #14	\$885 24
Depreciation 25%	
Total Sound Value	\$663 93

Page 224, 225, 226 & 227: CONSTRUCTION

BUILDING #17	
Designated as Dwelling	
One-story frame construction	
14'0" x 24'0"	
First Story	9'0" high
Gable	4'0" high
-	
BELOW GROUND	
EXCAVATION	
Entire area	1'0" av. depth
Total Cost Below Ground 10 08	
Total Sound Value 9 07	
-	
ABOVE GROUND	
WALLS	
2 sides and 2 ends	
9'0" and 11'0" high	
1" x 6" siding, painted	
2" x 4" studs 2'0" centers	
1" D&M ceiling, painted	
4" x 6" sills with 1 1/2" windows	
and panel doors	
Interior	
9'0" high	
1" D&M, painted, on 2 sides	
2" x 4" studs 2'0" centers	
with panel door	
460 54	
FLOOR	
1" D&M flooring on 2" x 4"	
joists 2'0" centers	
Ceiling - 1" D&M, painted	
on 2" x 4" joists 2'0" centers	
137 76	
ROOF	
Corru. galv. iron roofing on	
1" x 6" board lining	
2" x 4" rafters 2'0" centers	
133 92	
Total Cost Above Ground 732 22	
Total Sound Value 659 00	
Total Cost Building #17 \$742 30	
Depreciation 10%	
Total Sound Value \$668 07	

Building #18/A cont'd	
FLOOR	
Dirt	
ROOF	
Corru. galv. iron roofing	
1" x 6" board lining	
2" x 4" rafters 2'0" centers	
106 02	
Total Cost Above Ground 280 50	
Total Sound Value 112 20	
Total Cost Building #18/A 318 96	
Depreciation 60%	
Total Sound Value 127 58	
Total Cost Buildings #18 and #18/A \$928 75	
Total Sound Value \$523 94	

BUILDING #18	
Designated as Dwelling	
One-story adobe brick construction	
18'0" x 38'0"	
incl. Addition 6'0" x 7'0"	
with Building #18/A	
First Story	11'6" high
Gable	5'0" high
Addition	8'0" high
-	
BELOW GROUND	
EXCAVATION	
Entire area	1'6" av. depth
30 24	
FOUNDATION	
Walls -	
12" thick 2'0" high	
adobe brick	
57 33	
Total Cost Below Ground 87 57	
Total Sound Value 56 92	
-	
ABOVE GROUND	
WALLS	
Main Building	
2 sides and 2 ends	
12" thick 11'6" and 14'0" av. height	
adobe brick with plank frame	
windows and panel doors	
Interior	
14'0" high	
12" thick adobe brick	
Addition	
8'0" high	
12" thick adobe brick	
299 02	

Building #18 cont'd	
FLOOR	
Dirt	
ROOF	
Corru. galv. iron roofing	
on 1" x 6" board lining on	
2" x 4" rafters 2'0" centers	
225 20	
Total Cost Above Ground 522 22	
Total Sound Value 359 44	
Total Cost Building #18 609 79	
Depreciation 50%	
Total Sound Value 306 35	

BUILDING #18/A	
Designated as Dwelling	
One-story adobe brick construction	
15'0" x 17'0"	
First Story	9'0" high
Gable	4'0" high
-	
BELOW GROUND	
EXCAVATION	
Entire area	1'0" av. depth
7 65	
FOUNDATION	
Walls -	
12" thick 2'0" high	
adobe brick	
30 81	
Total Cost Below Ground 38 46	
Total Sound Value 15 38	
-	
ABOVE GROUND	
WALLS	
2 sides and 2 ends	
12" thick 9'0" and 11'0" high	
adobe brick with plank frame	
windows and panel doors	
Interior	
12" thick 11'0" high	
adobe brick	
174 48	

Page 228, 229 & 230: CONSTRUCTION

BUILDING #21	
Designated as Mess House	
One-story adobe brick construction	
29'0" x 30'0"	
First Story 9'6" high Gable 6'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'6" av. depth	39 15
FOUNDATION	
Walls - 12" thick 2'0" high adobe brick	<u>65 13</u>
Total Cost Below Ground	104 28
Total Sound Value	88 64
ABOVE GROUND	
WALLS	
2 sides and 2 ends 12" thick 9'6" and 12'6" high adobe brick, plastered and painted inside with plank frame windows and panel doors	
Interior 12" thick 9'6" high adobe brick, plastered and painted 2 sides with panel doors	
Interior 9'6" high 1" D&M 1 side, 2" x 4" studs 2'0" centers with panel door	744 52
Building #21 cont'd	
FLOOR	
2" concrete, 1/2" cement finish Ceiling - 1" D&M, painted 2" x 4" joists 2'0" centers	313 20
ROOF	
Corru. galv. iron roofing 1" x 6" board lining 2" x 4" rafters 2'0" centers	316 20
INTERIOR FIXTURES	
Shelving wood enclosed sink and piping	<u>62 00</u>
Total Cost Above Ground	1435 92
Total Sound Value	<u>1220 53</u>
Total Cost Building #21	\$1540 20
Depreciation 15%	
Total Sound Value	<u>\$1309 17</u>

BUILDING #22	
Designated as Dwelling	
One-story frame construction	
23'0" x 27'0"	
(Not incl. adj. walls of Building #12)	
First Story 8'6" high Gable 5'0" high	
-	
BELOW GROUND	
EXCAVATION	
Entire area 1'0" av. depth	
Total Cost Below Ground	18 63
Total Sound Value	18 63
ABOVE GROUND	
WALLS	
2 sides and 1 end 8'6" and 11'0" high 1" D&M siding, painted, on 2" x 4" studs ceiled 1" D&M, painted 4" x 6" sills with panel doors and 1 1/2" windows	
Interior 8'6" high 1" D&M painted 2 sides 2" x 4" studs 2'0" centers	551 69
FLOOR	
2" concrete, 1/2" cement finish Ceiling - 1" D&M, painted on 2" x 4" rafters 2'0" centers	223 56
ROOF	
Corru. galv. iron roofing 1" x 6" common board lining 2" x 4" rafters 2'6" centers	<u>216 00</u>
Total Cost Above Ground	991 25
Total Sound Value	<u>991 25</u>
Total Cost Building #22	\$1009 88
Depreciation 0%	
Total Sound Value	<u>\$1009 88</u>

Page 231, 232, 233 & 234: CONSTRUCTION

BUILDING #23	
Designated as Dwelling	
One-story frame construction	
24'0" x 24'0"	
First Story	9'0" high
Gable	4'6" high
-	
BELOW GROUND	
EXCAVATION	
Entire area	2'0" av. depth
Total Cost Below Ground	34 56
Total Sound Value	34 56
ABOVE GROUND	
WALLS	
2 sides and 2 ends	
9'0" and 11'0" high	
1" D&M siding, painted	
2" x 4" studs 2'0" centers	
ceiled with plaster board	
4" x 6" sills with 1 1/2" windows	
and panel doors	
Partition	
9'0" high	
plaster board 2 sides	
2" x 4" studs 2'0" centers	642 72
with panel doors	
FLOOR	
1" x 4" D&M flooring filled	
and varnished, 2" x 6" joists	
2'0" centers	
Ceiling - plaster board on	
2" x 4" joists 2'0" centers	247 68
ROOF	
Corru. galv. iron roofing	
1" x 6" board lining	
2" x 4" studs 2'0" centers	209 25

Building #23 cont'd	
EXTERIOR FIXTURES	
Stoop 4'0" x 6'0"	4 50
Total Cost Above Ground	1104 15
Total Sound Value	1104 15
Total Cost Building #23	\$1138 71
Depreciation 0%	
Total Sound Value	\$1138 71

BUILDING #24	
Designated as General Store and Dwelling	
One-story adobe brick construction	
34'0" x 94'6"	
incl.	
Additions 16'0" x 29'7"	
and 10'0" x 21'6"	
First Story	9'0" to 11'0" high
Hipped Roof	7'0" high
-	
BELOW GROUND	
EXCAVATION	
Entire area	1'0" av. depth
Total Cost Below Ground	133 17
Total Sound Value	133 17
FOUNDATION	
Walls -	
12" thick 2'0" high	
field stone laid in lime mortar	
and adobe brick	260 52
Total Cost Below Ground	393 69
Total Sound Value	295 27
ABOVE GROUND	
WALLS	
3'0" to 5'0" high	
12" thick adobe brick and	
12" thick field stone	
lime mortar	
9'0" to 11'0" high	
12" thick adobe brick, plastered	
inside with plank frame	
windows and panel doors	
Interior	
12" thick 11'0" high	
adobe brick, plastered 2 sides	
with panel doors	1891 19

Building #24 cont'd	
FLOOR	
2" concrete, 1/2" cement finish	
on 1'0" av. dirt filling and	
1" D&M flooring on 2" x 6"	
joists 2'0" centers	
Ceiling - 1" D&M, painted	
on 2" x 6" joists 24" centers	1449 07
ROOF	
Corru. galv. iron roofing	
1" x 6" board lining	
3'0" centers 2" x 6" rafters	
4'0" centers	1363 49
EXTERIOR FIXTURES	
Covered porch 8'0" x 32'0"	
covered porch 6'6" x 40'6"	431 55
Total Cost Above Ground	5135 30
Total Sound Value	3851 48
Total Cost Building #24	\$5528 99
Depreciation 25%	
Total Sound Value	\$4146 75

Page 235 & 236: CONSTRUCTION

BUILDING #25		
Designated as Dwelling		
One-story adobe brick construction		
16'6" x 40'0"		
10'0" to 12'0" high		
-		
BELOW GROUND		
EXCAVATION		
Entire area 1'0" av. depth		19 80
FOUNDATION		
Wells - 12" thick 2'0" high adobe brick		56 94
Total Cost Below Ground	76 74	
Total Sound Value		57 56
ABOVE GROUND		
WALLS		
2 sides and 2 ends 12" thick 12'0", 10'0" and 11'0" high adobe brick plastered inside with plank frame windows and panel doors		
Interior 12" thick 11'0" av. height adobe brick plastered 2 sides		520 60
FLOOR		
1" D&M flooring on 2" x 4" sleepers Ceiling - 1" D&M ceiling, painted on 2" x 4" joists 8'0" centers		223 90
ROOF		
Corru. galv. iron roofing on 1" x 6" lining, 2" x 6" rafters 3'0" centers		217 71
Total Cost Above Ground	1022 16	
Total Sound Value		766 62
Total Cost Building #25	\$1099 90	
Depreciation 25%		
Total Sound Value		\$824 18

BUILDING #26		
Designated as Stable		
One-story adobe brick construction		
25'0" x 34'0"		
8'6" to 11'0" high		
-		
BELOW GROUND		
EXCAVATION		
Entire area 1'0" av. depth		25 50
FOUNDATION		
Walls - 12" thick 2'0" high adobe brick Lean-to - 12" thick 2'0" high adobe brick		50 70
Total Cost Below Ground	76 20	
Total Sound Value		30 48
ABOVE GROUND		
WALLS		
2 sides and 2 ends 12" thick 10'0" high adobe brick with sliding door		
		133 34
FLOOR		
Dirt		
ROOF		
Corru. galv. iron roofing on 1" x 6" board lining 2" x 6" rafters 3'0" centers		278 78
EXTERIOR FIXTURES		
Lean-to 12'0" x 34'0"		143 95
Total Cost Above Ground	556 07	
Total Sound Value		222 43
Total Cost Building #26	\$632 27	
Depreciation 60%		
Total Sound Value		\$252 91

Page 237 & 238: MISCELLANEOUS STRUCTURES

	Cost of Repro.	Sound Value
OUTHOUSES		
Frame outhouse 10'0" x 6'0" 6'0" to 8'0" high walls - sided and painted on 2" x 4" framing with button door floor - 1" board on 2" x 4" roof - corru. galv. iron 2" x 4" framing	115 94	105 46
Depreciation 10%		
THREE frame outhouses, 6'0" x 6'0" (same style) Value of one 75 86 Value of three 235 98		
TWO frame outhouses 4'6" x 6'0" x 6'0" high (same style) Value of one 63 37 Value of two 125 74		
Depreciation 20%	362 72	290 18
TWO frame outhouses 6'0" x 8'0" x 8'0" high (same style) Value of one 100 18 Value of two 200 36		
Depreciation 10%		180 32
THREE frame outhouses 5'0" x 7'0" x 6'0" walls - 1" common board battens, 2" x 4" framing floor - 1" common boards 2" x 4" framing roof - corru. galv. iron 2" x 4" framing Value of one 70 69 Value of three 212 07		
Depreciation 35%		137 85
Frame outhouse 5'0" x 7'0" x 6'0" (same style) Depreciation 10%	75 49	67 31

MISCELLANEOUS STRUCTURES		
	Cost of Repro.	Sound Value
OUTHOUSES CONT'D		
Adobe brick outhouse 5'0" x 8'0" x 7'6" av. height foundation - adobe brick walls - 12" adobe brick floor - 1" D&M on sleepers roof - corru. galv. iron on 2" x 4" rafters	77 64	
Adobe brick outhouse 7'0" x 9'0" x 7'0" av. height (same style)	93 44	
Depreciation 25%	171 08	
Total -	\$1138 66	\$909 85

Page 239: SHAFTING, PULLEYS AND BELTING Building #7

13½'	1 15/16" shafting	\$ 5 81	
2	collars	1 00	
3	16" double brace steel drop hangers, ring ciling	15 81	
		<u>22 62</u>	
	Freight, Cartage and Installation	20 36	
41'	4" x 6"	11 00	
		<u>53 98</u>	
	Depreciation 0% Sound Value		53 98
<u>Pulleys</u>			
1	20" x 4" steel	6 38	
1	28" x 6" "	10 97	
1	22" x 4" "	7 27	
		<u>24 62</u>	
	Freight, Cartage and Installation	7 39	
		<u>32 01</u>	
	Depreciation 0% Sound Value		32 01
<u>Belting</u>			
19½'	2½" - 4-ply rubber	3 90	
18	2½" - 4-ply "	3 60	
18	5" - 4-ply "	6 86	
		<u>14 18</u>	
	Freight, Cartage and Installation	4 25	
		<u>18 41</u>	
	Depreciation 0% Sound Value		18 41
	 Total Building #7	 \$ 104 40	
	Total Sound Value		\$ 104 40

Page 243: HOUSE FURNISHING AND STORE FIXTURES Building #9 cont'd

<u>First Floor cont'd</u>			
<u>Bedroom</u>			
1	iron cot bed and mattress	11 50	
1	double iron bed, spring and mattress	25 00	
		<u>36 50</u>	
	Depreciation 25% Sound Value		<u>27 38</u>
	 Total Building #9	 \$ 875 30	
	Total Sound Value		\$ 856 48

Page 240: PIPING, Yard and Outside

<u>Between Dwellings and Plant</u>			
Water and Air, Laid on Top of Ground			
3200'	1" galv. pipe and fittings	\$ 384 00	
1100	1½" " " " "	187 00	
1850	2 " " " "	425 50	
700	3 " " " "	336 00	
225	4 " " " "	159 75	
100	6 " " " "	125 00	
		<u>1818 25</u>	
	Installation	970 95	
		<u>\$2889 20</u>	
	Total Depreciation 0% Sound Value		\$2889 20

Page 241: HOUSE FURNISHING AND STORE FIXTURES Building #7

1	iron cot bed	\$ 6 00
1	mattress	5 50
1	pillow	1 50
1	pr. blankets	6 00
1	stove and pipe	3 50
3	benches	4 50
1	table	4 00
2	window shades	<u>2 50</u>
	Total Building #7	\$ 33 50
	Depreciation 0% Sound Value	<u>\$ 33 50</u>

Page 242: HOUSE FURNISHING AND STORE FIXTURES Building #9

<u>First Floor</u>			
<u>Dining Room</u>			
1	pine sideboard, 21" x 54"	\$ 10 00	
44'	36" to 40" wide benches	75 00	
63'	pine benches	25 00	
1	chair	2 00	
1	stove and pipe	3 80	
4	window shades	5 00	
4	pr. curtains	6 00	
	Service of dishes, glassware and silverware	130 00	
2	gasoline lamps	<u>12 00</u>	
		288 80	
	Depreciation 25% Sound Value		201 60
<u>Kitchen</u>			
1	Holbrook-Merrill #26 steel range, 34" x 54" top	225 00	
1	60-gal. hot water tank, mounted	50 00	
	Tables, benches and shelving	50 00	
1	sink	20 00	
	Misc. kitchen utensils	75 00	
1	large refrigerator	<u>150 00</u>	
		570 00	
	Depreciation 25% Sound Value		427 50

Page 244: HOUSE FURNISHING AND STORE FIXTURES Building #21

First Floor		
<u>Dining Room</u>		
2	6' x 7'4" tables	\$ 24 00
4	benches	10 40
1	23" x 5' sideboard	10 00
2	stands	2 75
1	Champion #130 - 2-hole stove	10 00
1	gasoline lamp	6 00
3	pr. curtains	4 50
2	chairs	4 00
	Plates, cups, saucers, glassware and plated ware for serving 20 people	50 00
	Depreciation 15%	121 65
	Sound Value	103 40
<u>Kitchen</u>		
1	6-hole range	95 00
1	12" x 60" galv. iron hot water tank and piping	50 00
3	tables	7 50
1	chair	2 00
	Misc. kitchen utensils	35 00
	Depreciation 15%	189 50
	Sound Value	161 08

Page 247: HOUSE FURNISHING AND STORE FIXTURES Building #24 cont'd

1	Detroit auto. computing scale, 18" x 16" platform, 110# cap., #732808	235 00
1	National cash register, #40-2-437526B	50 00
1	21" x 50" full ironed warehouse truck	11 00
2	28" single wrapping paper reels	6 00
1	18" single wrapping paper reel	2 50
1	2½-gal. copper extinguisher	12 50
	Total Building #24	\$1080 50
	Depreciation 22%	
	Sound Value	\$ 842 79

Page 245: HOUSE FURNISHING AND STORE Building #21 cont'd

<u>Bedroom</u>		
1	double iron bed, with spring and mattress	25 00
1	chair	12 00
1	table	4 00
1	wash stand	3 50
1	wardrobe	5 00
1	stove and pipe	3 80
	Depreciation 15%	53 30
	Sound Value	45 31
<u>Spare Room</u>		
1	stove and pipe	3 80
	Depreciation 15%	
	Sound Value	3 23
	Total Building #21	\$ 368 25
	Total Sound Value	\$ 313 02

Page 246: HOUSE FURNISHING AND STORE FIXTURES Building #24

1	32" x 17' counter, bin back	\$ 125 00
1	34" x 6' counter	20 00
1	31" x 7'6" counter	35 00
1	31" x 26" counter	5 00
1	30" x 10'6" counter, wire front	30 00
1	36" x 12' counter	40 00
1	31" x 14'6" counter	40 00
1	36" x 12' counter	45 00
1	wall shelving case, 50' long, 8' high, 19" deep, 39" high 5 - 12" shelves above	125 00
1	wall shelving case, 40'6" long, 8' high	85 00
1	26" x 17" x 6' glass oak frame counter case	18 00
1	27" x 16" x 3'6" glass oak frame counter case	14 00
1	25" x 48" x 32½" glass oak frame floor case	25 00
1	13' long 7' high screened partition, with door and 6' x 7' tops	30 00
2	meat cutting blades	30 00
1	Buffalo portable platform scale, 23" x 33" platform, single brass beam, 2500# cap.	80 00
1	Fairbanks 10" x 13½" platform counter scoop scale, with scoop, 200# cap.	16 50

Page 248: HOUSE FURNISHING AND STORE FIXTURES Yard and Outside

Page 249: HOUSE FURNISHING AND STORE FIXTURES Throughout Camps

Outside of Bldg. #24		
1	S.F. Bowser & Co., Inc. (Ft. Wayne, Ind.) fig. 97 - 5-gal. cap. long distance self-measuring gasoline pump, #48114, with 220-gal. cap. gasoline storage tank, including excavation and refilling	\$ 425 00
2	48" dia. 11'6" long 3/32" sheet steel riveted and soldered oil tanks on skids, for auto truck	400 00
1	Champion forge blower, #400, on stand	24 00
Total		\$ 849 00
Depreciation 0%		
Sound Value		\$ 849 00

Located in Tents and Houses		
114	iron folding cots	\$ 884 00
3	canvas folding cots	6 00
18	pine tables	30 00
5	pine wash stands	13 75
6	pine closets	72 00
12	wood chairs	18 00
32	sheet iron stoves, pipe and zinc	112 00
17	gasoline lamps	106 25
70	galv. iron pails	24 50
25	enamelware wash basins	8 75
114	cot mattresses	627 00
4	pillows	6 00
12	sheets	12 00
6	pillow cases	3 00
4	pr. wool blankets	24 00
2	pr. cotton blankets	8 00
24	face towels	6 00
24	bath towels	18 00
4	comforters	14 00
26	window shades	32 50
3	hand pump fire extinguishers	27 00
Total		\$1849 75
Depreciation 15%		
Sound Value		\$1572 29

Page 250 & 251: LABORATORY EQUIPMENT Building #7

1	D.F.C. LP muffle furnace, #4410BK complete with motor driven blower, 60 cycles, 220 volts, 3 phase, less muffle 3 muffles including freight, and haulage Installed	\$ 435 10
1	F.W. Braum (Los Angeles, Calif.) electric still, type 70, 1-gal. cap. including freight and haulage Installed	90 00
1	Braum Electric hot plate, #6MU - 18" x 24" - 110 to 220 volts, 4 elements for hot plate, including freight and haulage Installed	103 00
1	Ainsworth LL analytical balance	90 00
1	Heusser group B 1/200 button balance	205 00
1	Ainsworth type M200 gram pulp balance	50 00
1	Leitz #540 ore dressing microscope for flatation	185 00
1	moisture scale	28 50
1	scale cover	2 50
2	sets of scale feet	1 20
1	set analytical weights, 50 grams	12 00
1	set button weights, 1 gram to 1 milligram	22 50
1	set assay weights, 1 et. to 1/20 et.	4 50
1	Douglas lamp	9 60
1	20-mesh screen	1 16

1	60-mesh screen	1 58
1	30-mesh "	1 37
2	100-mesh "	10 50
1	200-mesh "	5 50
Misc. glassware, crucibles, etc.		500 00
Freight and haulage on balance, glassware etc.		20 00
1	bench, 2'4" x 15' - 2" top, lead covered with 22" x 38" x 6" lead lined tank	75 00
1	bench, 4'6" x 10' - 2" top, with 4 drawers and top rack, top lead covered	110 00
1	bench, 2'6" x 18'	45 00
1	case shelving, 9'6" x 12" x 6'6" - 6 shelves	20 00
1	balance base, 2' x 11'6" 2" top on 3 - 4" pipe legs	50 00
1	case shelving, 8'6" x 8" x 7'6" 9 shelves	20 00
1	case shelving, 7' x 12" x 4' 4 shelves	7 00
1	case shelving, 6' x 12" x 4' 4 shelves	6 00
1	bench, 23' x 23" - 2" top	35 00
1	bench, 3'10" x 4'6" - 2" top	10 00
2	benches, 12" x 20"	4 00
3	window shades	3 75
Total Building #7		\$2164 76
Depreciation 0%		
Sound Value		\$2164 76

Page 252: TENTS Throughout Camps

10	14' x 16' - 10 oz. duck wall tents, mounted on wood frame, with floor	\$ 750 00
6	14' x 16' - 10 oz. duck wall tents, with poles and stakes	180 00
1	14' x 18' - 10 oz. duck wall tent, mounted on wood frame, with floor	86 00
2	12' x 14' - 10 oz. duck wall tents, mounted on wood frame, with floor	108 00
1	12' x 18' - 10 oz. duck wall tent, mounted on wood frame, with floor	70 00
3	9'6" x 12' - 10 oz. duck wall tents, mounted on wood frame, with floor	130 50
1	9'6" x 12' - 10 oz. duck wall tent, with poles and stakes	17 50
1	floor and frame for 16' x 16' army tent	50 00
Total -		\$1392 00
Depreciation 20%		
Sound Value		\$1113 60

Page 253: OFFICE FURNITURE AND FIXTURES Building #7

Hospital Equipment		
1	Kamkook Ideal 3-burner camp stove	\$ 12 00
1	special cot bed, spring on wood frame	8 50
2	oil lamps	1 00
1	13" x 4' shelving case	4 00
1	6" x 3'8" shelving case	2 50
1	7" x 12" x 4' cupboard	2 00
1	pine table	2 00
1	chair	1 50
1	stool	1 00
Misc. equipment		15 00
Total Building #7		\$ 47 50
Depreciation 25%		
Sound Value		\$ 35 63

Page 255: OFFICE FURNITURE AND FIXTURES Building #15 cont'd

Page 254: OFFICE FURNITURE AND FIXTURES Building #15

Office Furniture and Fixtures		
1	32" x 5' standing pine desk	\$ 20 00
1	30" x 5' oak flat top desk	45 00
1	23" x 57" typewriter desk, 4 drawers	25 00
1	50" x 34" table, 1 drawer, pine	4 50
1	Shaw-Walker 21" deep 22" wide 30" high combination lock fireproof safe cabinet	60 00
1	Van Dorn 4-drawer vertical steel letter file, 15" wide, 26" deep 53" high	56 00
1	steel pull-out desk front, 9" x 40" x 47"	40 00
1	Coleman gasoline portable stove	30 00
1	Underwood 14" carriage standard visible typewriter	112 50
1	Monroe 8-bank calculating machine	300 00
1	fire extinguisher, hand pump	9 00
1	Protectograph Check Writer, #1023404	30 00
1	Precision postal scale	2 50
3	chairs	6 00
1	stool	4 50
Misc. wire letter trays, pencil sharpener, inkwells, etc.		6 00
		751 00
Depreciation 10%		
Sound Value		675 90

Draughting Equipment		
1	roll top oak desk, 30" x 48"	20 00
1	48" x 8' x 1 1/2" draughting board, with 2 adj. wood horses	50 00
1	bench, 46" x 46"	5 00
1	case shelves, 21" x 3' x 8'	21 00
1	Mine model	100 00
1	5-drawer drawing cabinet, pine	15 00
1	W. & L. E. Curley (Troy, N. Y.) transit #27741, with tripod	481 25
1	300' tape chain, 3/4" wide	16 00
1	100' tape chain, 3/4" wide	6 00
1	surveyor's stead rod	15 00
1	Brunt pocket transit	35 00
1	Monroe 8-bank calculating machine	300 00
1	old transit	100 00
		1164 25
Depreciation 10%		
Sound Value		1047 83
Freight and haulage on office furniture and draughting equipment		25 00
Depreciation 10%		
Sound Value		22 50
Total Building #15		\$1940 25
Total Sound Value		\$1746 23

Page 256: AUTOMOBILES Building #11

	Cost of Repro.	Sound Value
1 White truck, model 15, serial #146556, engine #GK7672 Depreciation 30%	\$2227 00	1558 90
1 Buick coach, 6 cylinders Depreciation 25%	1540 00	1155 00
Total Building #11	\$3767 00	
Total Sound Value		\$2713 90

Page 258: LAND IMPROVEMENTS

	Cost of Repro.	Sound Value
On Surface -		
Making roads and repairing and improving old roads around mill and between Ruby, Arivaca Amsdo and Nogales Depreciation 0%	\$5836 45	\$5836 45

Page 260: MACHINERY In Mine

1 Chicago Pneumatic Tool Co. #5 drill - complete with shell	\$ 136 00	
1 6' double column bar - with arm and clamp	85 00	
1 Cochise #4 wet stoper	230 00	
1 Chicago Pneumatic Tool Co. #48 cradle and shell mounting	90 00	
1 Chicago Pneumatic Tool Co. #10 sinker drill	195 00	
1 Cochise jack hammer not mounted	195 00	
1 Cochise #4 wet stoper	230 00	
1 7' column bar with clamp and arm	66 50	
1 Fairbanks, Morse & Co. (Chicago, Ill.) 3 1/2" x 5" x 4" horizontal Duplex steam pump - #156763 Freight, Cartage and Installation	90 00 27 00	117 00
1 Cochise jack hammer #40 wet for 1" round steel	195 00	
1 6' column bar with arm and clamp	90 00	
1 Cochise #4 wet stoper	230 00	
2 Cochise jack hammers #40 - wet for 1" round, mounted	570 00	
Freight and handling on above equipment	60 00	
Depreciation 11%	\$2479 50	
Sound Value		\$2206 76

Page 257: MINE PROPERTY—MINE TRACKS—In Mine

All 20" Gauge on 4" x 4" x 28" Sawn Ties - 30" on center		
Intermediate Level		
199'	track, 12# rails	\$ 118 40
100' Level		
514'	track, 12# rails	308 40
200' Level		
556'	track, 12# rails	334 80
38'	track, 16# rails	28 50
500' Level		
875'	track, 12# rails	525 00
Depreciation 15%		\$1516 10
Sound Value		<u>\$1118 69</u>

Page 259: SHAFT

	Cost of Repro.	Sound Value
In Mine -		
1 shaft 5'0" x 10'0" x 373'0" timbered with 6" x 8" sets 5'0" centers 2" lagging	20657 00	
1 ore pocket cut in second level	210 00	
Depreciation 0%	20867 00	20867 00
Gable Boulder -		
1 shaft 5'0" x 9'0" x 190'0" timbered with 6" x 6" sets 5'0" centers 2" lagging Depreciation 0%	3600 00	3600 00
Total	\$24467 00	
Total Sound Value		\$24467 00

Page 261: PIPING In Mine

100'	Incl. Fittings	\$ 8 00
2660	3" galv. iron pipe	319 20
80	1 1/2" " " "	14 40
3389	2" " " "	813 36
140	3" " " "	71 40
100	4" " " "	75 00
200	6" " " "	264 00
5	2" stop cocks	5 25
36	1" " " "	55 10
22	2" " " "	98 78
3	gate valves	19 26
12	1 globe " "	30 60
8	2 " " "	63 68
1	3 " " "	9 94
1	2 " " "	2 00
2	1 gate " "	4 92
1	4 globe " "	15 11
2	3 stop cocks	8 92
Freight, Cartage and Installation		<u>1678 92</u>
Depreciation 15%		\$5100 22
Sound Value		<u>\$2635 19</u>

Page 262: MISCELLANEOUS EQUIPMENT In Mine

3	Stillson wrenches		\$ 4 95	
3	Coxs wrenches		4 05	
8	50' lengths 3" air hose		144 00	
8	50' " " water hose		114 80	
1	50' " " 1" air hose		22 50	
4	short lengths hose and couplings		36 00	
11400#	1" round hollow drill steel		1787 00	
	Misc. small tools, picks, shovels, etc.		50 00	
			<u>\$2143 30</u>	
	Depreciation 3%			
	Sound Value			<u>\$2079 00</u>

Page 263: HAULING EQUIPMENT In Mine

8	Joshua Hendy Iron Wks. (San Francisco, Cal.) size 2-207 all steel line cars		85 00	
	Freight and Hauling		10 00	
			<u>95 00</u>	\$ 760 00
2	all steel mine cars			190 00
3	pans			<u>75 00</u>
				\$1025 00
	Depreciation 15%			
	Sound Value			<u>\$ 871 25</u>

Page 264: AMADA, ARIZONA, RAILROAD SIDINGS

1	standard gauge railroad siding 1285'0" long 45# rails, 8" x 8" ties 2'0" centers 1 frog and split switch with high target stand cinder filling Eagle-Fischer Lead Co. security Depreciation 0%	Cost of Repro.	Sound Value
		\$ 500 00	\$ 500 00

Page 265: AMADA, ARIZONA—CONSTRUCTION FREIGHT HOUSE

	Frame construction 10'0" x 12'0" To Eaves 9'0" high			
		Cost of Repro.	Sound Value	
	WALLS 1" x 12" common brs. 1" x 3" battens 2" x 6" framing with sliding batten doors			
	ROOF corru. galv. iron roofing 1" x 6" bd. lining 2'0" centers 2" x 6" rafters 16" centers			
	PLATFORM 10'0" x 16'0" 3" plank flooring on 8" x 8" posts and girders 2" x 6" braces 2" x 12" blocking		286 70	286 70
	Depreciation 0%			
	SHIPPING PLATFORM 10'0" x 32'0" 3" top		226 17	226 17
	Depreciation 0%			
	INCLINE PLATFORM 12'0" x 28'0" 3" top		192 05	192 05
	Depreciation 0%			
	Total Building		\$ 704 92	
	Total Sound Value			<u>\$ 704 92</u>

Page 266: AMADA, ARIZONA—FOUNDATIONS FOR MACHINERY AND EQUIPMENT Away from Plant

	At Amada, Arizona	Cost of Repro.	Dep.	Sound Value
	Machine #203 - 4 - 2'0" x 8'0" x 2'0" 3 - 1'0" x 8'0" x 2'0" concrete excavation 2'0" deep 4 - av. 1'6" x 8'0" x 9'0" 3 - 2'0" x 8'0" x 9'0" concrete Below Ground Above Ground	149 06 7 03	0% 0%	149 06 537 03
	Total	686 09		686 09
	Total Sound Value			<u>\$ 686 09</u>

Page 266: AMADA, ARIZONA—MACHINERY Away from Plant

	At Amada, Arizona	Cost of Repro.	Sound Value
	#203 1 welded steel tank, 10' dia., 25' long, 2" metal, 16000 gallons cap. - metal, f.o.b. Amada Installation Depreciation 0%	582 00 50 00	\$ 632 00
			<u>\$ 632 00</u>