

FANNY BARRETT.

THE LIBERTY MINES (Formerly the Fanny Barrett group of claims) (consists of seven patented claims, each 300 (1500 feet or collectively 300 X 10,800 feet (about two miles in length by 300 feet wide) and are described as follows:- "LADY DELLA" U.S. Survey No. 1412; "RARUS" U.S. Survey No. 1409; "Argentine" U.S. Survey No. 3033; "QUEEN EX" U.S. Survey No. 1413; "EVENING STAR" U.S. Survey No. 1410 (fraction); "MOUNTAIN QUEEN" U.S. Survey No. 1411; and "MOUNTAIN KING" U.S. Survey No. 1408.

This property is located three miles from Alma, Park County, Colorado and is in what is known as the Mosquito and Buckskin Mining district.

EXTRACT OF REPORT BY S.T. TYSON M.E.

Extending across the mountain, through the center of this tract, there is a fissure vein, the continuity and value of which, together with that of other parallel veins embraced within the side lines of this property has been established by numerous shafts, prospect holes and tunnels. The main workings, are located about 425 feet south of the brow of Buckskin slope, and consists of a perpendicular shaft 180 feet in depth from which levels and cross cuts have been driven, North of the main shaft the workings are all in ore, except the extreme north end of the 50 foot level, where it enters the surface material. To the south the ore body maintains its average width a distance of 35 feet from the shaft; beyond this point, although the ore body is diminished in thickness it is still continuous and is found at its full width in the south shaft.

The ore body through out the main workings, varies from one to four feet in thickness and the ore may be divided into two classes;-the first class consisting mainly of carbonate of lead and galena, assaying from 30 to 60% lead and from 70 to 150 ounces of silver per ton;-the second class consists of oxide of iron and manganese and assays from 6 to 10% lead and 10 to 30 ounces of silver per ton.

On the 100 foot level, 45 feet north of the main shaft, a winz has been sunk about 12 feet from which ore assaying 100 ounces silver per ton has been taken.

The south shaft is 365 feet from the main shaft south and was not sunk on the vein but at a depth of 65 feet from the surface a cross cut of 5 feet is in the vein. At this point the vein is 18 inches thick. A sample of seven tons, from this place, yielded 15% lead and 55 ounces silver per ton. This vein has been drifted on to the north 40 feet showing a continuous body of ore. A sample here assayed 205 ounces silver per ton. South ward from this shaft the vein has been driven on the 30 foot level. A sample of this ore gave 157 ounces per ton.

EXTRACT OF REPORT BY J. ALDEN SMITH  
(COLORADO STATE GEOLOGIST.)

The vein is a nearly verticle fissure in limestone. The top of the mountain is covered with limestone with alternating layers of quartzite. Between the limestone and quartzite are contract veins of silver similar to those of the verticle fissure, but mainly higher grade in silver. The strike of the vein is N 30 degrees E and the dip nearly verticle, so far as explored, and remarkably regular and well defined.

The ores are principally carbonate of lead and galena, manganesian oxide and carbonate of iron. The value of the ore is as follows:-Carbonates and galena, mixed 18 ounces silver and 25% lead to 230 ounces silver and 73% lead. Average 57 ounces silver and 52% lead.

Manganesian Iron-oxide and carbonate, average 30 ounces silver and 7% lead.

Following statement selected to show average of 100 cars ore shipped to various smelters and ore buyers:-

Consolidation of two cars oxide of iron sold to Grant & So., Smelters.

This should have given a net profit of 60% which is rather extraordinary for what is actually "dead work". I saw sufficient to convince me that it is a valuable mine.

Yours truly,  
(Signed) J. Alden Smith.

NOTE EXTRACT OF REPORT BY S. T. TYSON, M. E.  
FISST PAGE  
(Confirmatory of the preceding)

EXTRACT OF REPORT BY PROFESSOR GREGORY BOARD  
MANAGER OF THE VALLEY SMELTER WORKS GOLDEN, COLO.

I have examined the Fanny Barrett mine at Alma, Colorado. The quantity of mineral in sight, many thousand tons. Have had the samples which I took assayed and find the ore from the different workings of the mine, and which run 23 to 183 ounces of silver per ton. From calculations made, I judge the average to be about 59 to 70 ounces silver and 30 to 40% lead. These figures are confirmed by the ores smeltered at these works.

I have some suggestion to make in regard to working the mine, especially about machinery. Would advise latter to be of high power and first class in every respect. Buildings and other improvements to be made with a decided view to permanency, as the mine is, without a doubt, practically inexhaustable.

(Signed) Gregory Board.

REPORT ON TUNNELS BY FRANK E. WIRE (MINE OPERATOR)

Dear Sir:

In answer to your request that I give you a statement, as I saw them, as to conditions relative to the Fanny Barrett (Liberty Mines) property, and especially in the tunnels, I have the pleasure to say the following:-In the first place I went up to the Fanny Barrett property at my own expense, so I am free to express myself as I understand the facts and conditions to be.

As you have reports on the Fanny Barrett workings, in and from the shafts at the top of the property, I can say little about that part as I did not go down into any of the workings, and all I say was surface conditions, surface dumps and all that sort of thing.

I went into the upper tunnel, which cuts under the top of the mountain about 200 feet and this tunnel is driven a little over 400 feet, and I believe about 37 feet from the bottom of the upper workings or from the shafts or stope.

In the breast of the tunnel there is mineralization and evidence that they are approaching closely to the big ore bodies in the upper workings as per the report. It is not a very easy matter to get into the tunnel but this can be done. It is in fair condition and needs but little repair. There is ice for the first 100 feet.

The upper tunnel, which is above the quartzite is about 200 feet above the lower tunnel and the latter of which is under the quartzite and is driven in about 500 feet and is directly below the upper tunnel; is driven on the vein and is a true fissure vein. The breast of the lower tunnel, so far as I could tell, was about under the breast of the upper tunnel and is in granite.

There is, I should judge, over 300 feet of the lower tunnel that is in pretty fair ore, which ore body, including the vein filling or the whole vein I should say would average about 6 feet wide. It is soft nearly back ore. Well toward the breast of the lower tunnel there is an upraise right on the ore shute. This upraise must be 70 feet and a good ladder up the entire distance, and the ore body all the way up. I believe it is over six feet wide and at the top of this raise 9

it is considerably over 6 feet wide. Estimating that the ore will run 50 feet above the tunnel on an average, and then taking the reasonable presumption as to what ore is in sight from the upraise, I do not think there is any question but that there is \$350,000.00 worth of ore, gross from the lower tunnel. This ore runs from \$ .50 to \$300.00 per ton, representing the highest and lowest assays and I believe, from my experience, observation and what I can hear, that the ore will average \$ 10.20 to 11.30 per ton.

Between the quartzite and lime (the whole mountain is capped with lime) the lead and zinc carbonates lay mostly in a horizontal formation.

The Fanny Barrett (now Liberty Mines) property is a good and valuable one; has made a great record and has only been scratched.

I believe this is all that I can say that is of importance, out-side of what the report says.

#### ADDITIONAL DESCRIPTION AND INFORMATION

The territory around Alma, Colo. is aptly, called the "TREASURE VAULTS" of this district.

THE LIBERTY MINES (formerly the Fanny Barrett group of claims) lay across Loveland Mountain, extending from Mosquito Gulch to Buckskin Gulch (about one mile in extent)

From either end of the property the vein formation can be traced by a dark streak across the mountain. From either the Mosquito or Buckskin Gulches there are fine tunnel sites which would cut the property at good depths or about 700 feet. On the Buckskin side there are already two tunnels driven deeply into the mountain as the report shows, and now available for use. One of the upper tunnels is near (about 37 feet) the ore bodies of the old workings which were located near the highest point of this property and in which, it is said, large quantities of manganesian iron oxide is stored, that is, the manganesian iron oxide that ran low in silver and lead. This ore was "back-filled" instead of being hoisted to the surface. Thus it may be found that there is a large tonnage of gold grade of manganese bearing ore that would be available for shipment as soon as opened.

Judging from the different reports it would seem likely that a high grade of silver and lead, together with manganese ore lies close to the surface as some of the levels in which ore was found is quoted as being taken out at from 15 to 30 feet below the surface.

#### TRANSPORTATION \_\_\_\_\_ ROADS.

THE LIBERTY MINES are located two and one half miles from Alma Colo. on the Mosquito side and about three miles on the Buckskin side of the property; both sides are traversed by good wagon roads. A third road runs over on the mountain to the old workings in or near the center of the property.

On the Mosquito side a branch of the Colo. & Southern R.R. is or was built to the London Mine and called the London Mine R.R. This line has not been in operation for some time but could be put in good repair at moderate expense.

The Alma branch of the C.&S.R.R. taps this mining district at Alma, Colo. and shipments can be made from there by way of Leadville and D. & R.G.R.R. to local markets or East or by way of Denver, Colo to local markets or East.

#### THE LIBERTY MINES

Approximate map of openings of Fannie Barrett Group  
of mine, Loveland Mountain, Park County, Colorado.

