

Report on the Ada Group.

The Ada group of mines ~~are~~ ^{is} situated in Gilpin Co., in the Russell District. They ~~are~~ ^{is} near the head of Virginia Canon ~~which flows into the~~ ^{which joins} the south fork of Clear Creek ~~near~~ ^{near} little ways ~~above~~ Idaho Springs.

The Rio Grande mine and the Crown Point-Virginia are within a stone's throw of the shaft house. ^{The mine is about 2 miles from the mills at Idaho Springs where the ore is treated.}

The group consists of two patented claims lying on the Ada vein and one unpatented claim covering ~~the~~ a vein which crosses the Ada about twenty feet from the shaft (East)

The vein has an Easterly and Westerly trend and if continued would go over near the Saratoga.

The amount of development may be easily seen from the rough sketch accompanying, which ^{is} was drawn from memory and is not to be taken as an accurate map.

The equipment consists of a small shaft house, a living room attached, a one horse whim and wire rope with buckets and water hoist.

Samples were taken at the points indicated by letters with the following results

a.	Lower level 20 ft from shaft	\$ 9.83
b.	" " 6 in Smelting ore	\$ 5.14
c.	" " breast 12 in.	\$ 7.30
d.	Upper level 2 in Smelting ore	\$ 276.65
e.	" " Mill dirt 50 ft from shaft	\$ 62.60
f.	" " Breast 16 in	\$ 5.98
g.	" " Cross vein	\$ 3.75
h.	Tunnel	\$ 3.65

The cost of mining is about three dollars per ton, so I am told by experienced miners to whom I have given the conditions existing in the ad.) The owners claim it can be done for two dollars and a half.

The cost of hauling is ninety-five cents per ton. The treatment charges are one dollar and forty cents per ton.

~~3.00~~
~~1.40~~
~~1.95~~
 4.35

So we see that everything that goes over \$5.35 is pay are. Or taking the owners claim

of cost of mining at \$2.50 everything over \$4.85 would be profit.

We will use the former in our estimations.

There is but one block of ore and that may be estimated to contain 300 tons.

Taking an average of all assays on its edge, except the highest one we see that this block would yield \$5451.⁰⁰ worth of ore and a net profit of \$3856.⁰⁰ providing all the values could be saved in a stamp mill. About 65% of the values are generally saved and deducting an additional 5% for freight and treatment of concentrates we may safely assume that 60% of our mill dirt will be saved. This reduces the profit to \$111.⁰⁰. So we see that assuming the worst conditions there is a small profit in working this mine. There are at present mills running which are treating ore on a guarantee of saving 80% of the values, and there are narrow highgrade streaks of smelting ore which we have not ^{been} included ^{in the calculation} so that the profits might be largely increased.

The workings at present are in what is called the "barren zone" or "cap". This "zone" has been a characteristic feature of all mines in this district. It extends to the depth of ~~200~~ two hundred feet frequently.

So the chances ^{are} are in favor of the getting richer with depth.

~~If you~~ and smelter
The following mill returns are in the possession of the owner and were copied by me. The ore came from the shaft and drifts.

Date	Wt of ore	Silver	Gold	\$ Per ton (net)
Oct 16, 1886	2748 crude	9.20 oz	6.80 oz	111.87
Dec 22, 1886	3128 "	12.90 "	4.00 "	64.41
June 4, 1889	12533 Tailings	2.50 "	.50 "	4.56
June 4, 1889	1196 crude	7.30 "	4.33 "	113.65
Nov 6, 1893	1608 "	4.60 15.56	15.56 4.60	81.69
May 25, 1889	4 cords "		13.00	97. per cord
Apr 29, 1889	3 1/2 "		11.	70 " "
July 23, 1886	1796 "	3.20	1.70	17.50
July 23, 1886	763 "	12.00	4.66	83.33

The following are taken from the books of the mine

Wt		Net returns \$	
2775	Smelting ore	153.70	} Tailings from these 4 shipments brought \$ 67.
1 1/4 cords	Mill dirt	69.90	
1 5/6 "	" "	72.05	
3 1/2 "	" "	180.90	
4 "	" "	195.	

There is no doubt in my mind that the mine can be worked with a profit.

If you care to make an offer on this property I would advise that a lease and bond be asked for.

The bond not to exceed \$20,000.00 and the lease as long as the owner is willing to grant it.

A few weeks actual working of the mine will show just what may be expected of it & a great deal better than any amount of ^{technical} investigation.