FIFTH REPORT

on the

PROPERTIES OF THE STRATTON C.C.M. & D. CO.

by

GEO. J. BANCROFT
Consulting Engineer.

It is three months since I made my last report, but throughout the district as a whole there has happened little of interest except the settlement of the strike which was in progress at the time of my last writing. The developments close to the present water level have continued to expose good bodies of rich ore as was foretold by the evidence indicating a zone of secondary enrichment. I have made a somewhat thorough study of the various deep shafts and enclose herewith a brief statement of my findings. It occurred to me that a report of this kind might be useful at the present time.

The number of rich strikes near the present water level is remarkable and invites further study. Why this zone of enrichment should be 500 ft. below the original water level is beyond me.
ABE LINCOLN MINE:

The 340 foot level of the Abe Lincoln mine has been abandoned. The mine has been very thoroughly prospected on this level, and while one can still point out several likely places for ore bodies, we have burst so many equally attractive bubbles in the past on the same level, that the incentive is greatly lessened to proceed further along similar lines.

On the 500 ft. level a discovery was made in March on the South end of the Abe Lincoln vein. Referring to my last report I strongly advocated prospecting the Abe Lincoln vein on the 5th level, and I feel pleased that prospecting in this direction has been successful.

The ore body was mined 18 ft. wide, 35 ft. above the level, and 30 ft. long. In addition a winze 25 ft. deep has been sunk on the ore body and there is still a little pay streak in the bottom of the winze. Six hundred and seventy-five tons have been shipped up to June 1st. So far as is known the ore has been exhausted above the level and the showing below is poor. It is entirely possible, however, that the winze was sunk in the wrong place and that as the ore is removed below the level the ore body will prove to extend down in some other place. These granite ore bodies are even more erratic than those in the parphyry. This particular body appears to be a large bunch or kidney lying on the west side of the Abe Lincoln vein. In extracting the ore the vein was found and is now being followed back toward the old drift. It has been driven 40 feet from the ore body and is still in ore, but the grade is somewhat lower than the main ore body. The mineralized width is perhaps 3 ft. The large bunch of ore was found at the junction of the Lincoln vein and a cross vein. It was in following the cross-
vein, that the ore was found, so the cross-vein was followed 69 feet beyond the ore body, with no result.

In the past three months the supt. has kept two machines on an average doing development work. A good deal of drifting and cross-cutting has been done besides that mentioned, but it was all without result so I will not describe it.

The most attractive prospect in the mine, according to my notion, is the undeveloped part of the Abe Lincoln vein on the 500 ft. level, which underlies the surface stopes. There is probably 125 ft. of the vein left which has not been developed. After that is done attractive prospects in the Abe Lincoln will be hard to find without sinking another lift.

The Gold King shaft is 120 ft. deeper than the Abe Lincoln shaft, but at the present time the lower level of the King is flooded. I think it entirely practical to sink 75 ft. and possibly further. If conditions are similar to those on the 500 ft. level 75 ft. is plenty, for no ore body was found on the 500 ft. level that was continuous for 75 ft. above the level.

THE EAGLES SHAFT:

5th Level:

The cross-cut from the Mineral Rock drift West, as mentioned in my last report, was continued 100 ft. cutting the vein for which it was driven, and an $8.00 assay was obtained the day the work was stopped. Mr. Haff, our new civil engineer, confirms my suspicion as mentioned in my last report, that the Mineral Rock drift was not driven on the Mineral Rock vein. He says that the Bankers shaft is over 500 ft. deep instead of 225 as stated by our Mr. Jones, and that had the drift been run on the right vein we would have broken into the shaft about 150 ft. back of the
present breast. He further states that considerable prospecting was done for the ore body in the bottom of the Bankers shaft and it was never found. Inasmuch as this information is undoubtedly reliable and is entirely contrary to the information gathered previously I have changed my mind as to the advisability of doing very much development on the 5th level on the Mineral Rock vein. I think a connection should be made on the 5th level with either the Bankers or Pikes Peak shaft. This will permit a man to get his bearings and will also make it possible to clean out any little bunches of ore which may have been left in the upper workings. Mr. Stratton had the Bankers and Pikes Peak shafts bulkheaded so I have never been able to get into them. I have prepared a list of the mines in the camp which have encountered deep ore and it is a noticeable fact that many of them have been lean a part or all the way between 400 to 600 ft. Hence I am of the opinion that the Mineral Rock and Grouse veins had better be prospected on either 8 or 11. On the fifth level connections should first be made, however, which will permit a man to get his bearings and form some idea about which vein is which.

A cross-cut is being started from the mineral rock drift north to intersect the vein which shows a little bunch of ore under the Zenobia powder house. This is a good prospect, but the chances of finding pay ore are less, I should say, than in those prospecting ventures where the efforts are directed toward finding the extensions of known ore bodies of commercial size and value; I consider the best prospects in the Eagle Shaft as follows, the prospect of finding the extension of the "eighth" shoot above
eight by upraising and below II by winning, the
prospect of finding the continuations of the Pikes
Peak and Grouse ore shoots, by drifting South from the
Eagles and to a less extent the prospect of finding
the "Nighth" shoot on Fifteen by drifting. As pointed
out in my last, it would be a very fine thing to find
the extension of the Eighth shoot on Fifteen, but it
is a good deal of a "long shot" chance.
8th Level:
The only work being done on the eighth level is
the putting up of a raise directly beneath the Murphy
shaft on what we consider the Murphy vein. Some values
were had at this point also and the top of the raise is
looking well. This is a good prospect and I hope will
produce some ore. If the Murphy shoot pitched to the
South as sharply as do most of the ore shoots on this
hill the drift off Eagles Eight is probably not far
enough south to catch it, but the raise is getting
closer to the surface all the time and the first 400
ft. on Bull Hill has been the locus of the best ore
bodies. The 8th level at this point is probably about
650 ft. underground and the Murphy shaft is about
300 ft. deep. About 225 ft. of work has been done on
the Murphy drift since my last report.
In the main stope between 8 and II there is one
triangular block 40 ft. high at the thick end, and
100 ft. long. There is another small stope north
of the winze, which was discovered about two months
ago and what remains is 40 ft. long of limited but un-
determined height. It is 40 ft. up to the level and it
was barren, so the ore ends somewhere between. These
two blocks are all that is left of the profitable stope
between 8 and II as far as is known at present.
11th Level:

A winze has been sunk 70 ft. on the south edge of the known ore of the "Ninth" vein on the eleventh level. The ore continued in the winze only about 35 ft. the balance is barren. There is evidence, however, that the eleventh level left the main vein at this point and followed a branch vein and the winze seems to have done the same thing. A short cross-cut west will probably catch the right vein again and if the ore is not found in the cross-cut a short drift South will probably reveal it. Then the winze should be sunk another lift. A drift was run 80 ft. South, but this was probably on the branch vein, as drift is being run north to catch another part of the ore shoot and ought to get it in about 40 ft. It has been driven 100 ft. so far. About half way up, in the main stope of the "Ninth" vein, in the south end of the stope, a drift is being run southward as a prospect. It is a good idea to be sure all the ore is cleaned out of a piece of ground before abandoning it, and it would be a good idea to put in a few short-cross cuts as well.

16th Level.

Near the end of the east cross-cut are two veins about 100 ft. apart. Either one might well be the "Ninth" vein. A drift was started on the first one and a nice little bunch of ore was encountered and gone through. After following this vein over 200 ft. it was decided that it was not the right vein, so the drift was swung around into a crosscut and is now headed East. The vein followed had widened out to 15 ft. as revealed by crosscutting and all the little veins in this width carry some values. Altogether the drift and cross-cut was 285 ft. long on June 1st.
The finding of the bunch of ore and the discovery that all the little seams in the wide vein carry values is most encouraging. Whether this is the right vein or not we have no evidence of any vein carrying values in this part on the levels above. The pitch of the main ore shoot will carry it at least 150 ft. further south and so discovery of values at this part is entirely unexpected. It agrees well, however, with the experience of the lower level of the last Dollar, where without any exaggeration, it seems that every where they turn they strike ore. As pointed out in my list of deep ore bodies which accompanies this report the indications at depth are very encouraging.

CALLIE LEASE:

South of the Ophelia tunnel the drift has been driven 52 ft. making it 62 ft. altogether. It is about 90 ft. further to the end line. The lessees have found four little bunches of ore in that distance and it is probable that the central fissure crack is mineralized all the way. The rock is extremely hard and I doubt if the lessees are making any money.

North of the tunnel the little stope mentioned in my last report has been carried up to a point 70 ft. above the tunnel. At a point 50 ft. above the cross-cut a flat dike was struck which cut off the vein and its values. Above the dike a cross-cut was run 12 ft. to the east but the vein was not cut. Just under the dike the stope was 30 ft. long. The bottom three ladders of the shaft are missing.

The lessees, particularly Geo. Ay sight, have had some trouble with the tunnel people. The facts are these. The lessees and the tunnel people were both eager to make a connection to the Callie shaft. So the tunnel
people helped the lessees drive 65 ft. of the drift and make connections. There was no definite understanding as to what privileges the tunnel was to gain by this work but no objection was ever made to arranging the shaft and connections to ventilate the breast of the tunnel. As the breast advanced, however, the natural draft failed to carry off the smoke, so a fan wheel and motor were installed in the tunnel on Callie ground and electric wires were brought down the ladder way of the Callie Shaft. The wires were "Zig-zagged" across the shaft to bring them through the main holes instead of carrying them down on one side where they would have been out of the way of men going up and down the ladders. Mr. Parfet the manager of the tunnel showed very little tact in not asking permission of our Mr. Rice and the lessees before putting in his wires. The lessees became angry and chopped down the wires. The tunnel has been shut down four weeks as a result. It is one of those fights which result from an imperfect understanding in the first place together with lack of tact on both sides.

THE DELMONICO LEASE:

The three compartment shaft has been sunk to the 300 ft. level and well timbered all the way. On the 300 ft. level a new ore shoot has been found in the same vein that contained the old one. The new shoot is close to the new shaft. The ore extended 25 ft. along the level and has been stopped four ft. wide. It is spotty and erratic. The old ore shoot has been exhausted to all appearances.

THE SACRAMENTO LEASE.

The lessees on Sacramento ground built a little shed, made a few repairs in the shaft down to the first level, did a little prospecting on that level and on
May 15th stopped work. They had not notified Mr. Rice on June 3rd, but told me they had no intention of resuming work. There does not seem to be enough fresh rock on the surface to account for the work done below and I suspect they dumped some of the rock down the shaft. (The timbers are gone below the 11th level.)

WAR EAGLE LEASE:

The accompanying sketch shows the additional stoping and drifting done on the War Eagle Lease. All the work is done in a very wretched manner. No timbering whatever has been done except the one crib mentioned in my last report. This crib was made of green timbers most of which came from our ground and as the stope is open to the sunlight the timbers have dried out and shrunk so that all but one of the wedges are already loose. The crib is likely to shrink away from the roof and then when the roof starts it is likely to come anyway, crib or no crib. All the workings should be properly timbered up.

Mr. Hervey ordered me not to go near the property. I told him I would continue to inspect the property until ordered otherwise by the board of directors of the Stratton C. C. M. & D. Co. and I did so. Hervey and I had no trouble or words over the matter, but he did not happen to be at the mine when I went down. I anticipate trouble should we happen to meet at the mine, so would like to be informed if Hervey has the entire charge of the property, as I do not wish to intrude where the board does not wish me.

THE LOWER WAR EAGLE LEASE.

I visited this lease three times and found no one. I think the lessees have abandoned it.

Geo. Bancroft