

As such potash is not water-soluble, a question arises as to the amount absorbed by the soil, and by plants, but this company claims to demonstrate remarkable results.

With the coming of cheap electrical power from Boulder Dam, deposits such as this derive new importance, or new interest. If the percentage of alumite is large enough, it might be possible to first extract the potash, and then smelt the residue for aluminum by the electrolytic process.

At night, on this date, we drove from Beatty south to Les Vegas, where we spent two days in interviews and arranging immediate and future examination trips.

SEARCHLIGHT DISTRICT

The afternoon of June 1st found us at Searchlight. The camp is a scene of renewed activity, due to the Searchlight Gold Corporation, which took over the well-known Duplex Mine on July 31, 1930. The officers of the new company, which is incorporated in Delaware, are Albert H. MacCarthy, President, Dr. Wilton McCarthy, Treasurer, W. J. Loring, V. President and General Manager, and Roy A. Lennon, Secretary.

The mine is now producing 600 tons per month which is milled at the company's own plant. The ore is largely brecciated quarts containing gold, silver, lead and copper. It is much oxidized, and 80% of the value is in gold, the remaining value being divided between the other metals.

The mill consists of a ball-mill, operating in closed circuit with a Don classifier & flotation unit. The mine had been worked for many years by former owners and subsequently by leasers. Much "dead" work has been necessary to put it in shape for steady production, yet

Mr. Loring states that it had been left in much better condition than mines usually are when operated by leasers. The ore shoots were worked out cleanly, the waste had been properly disposed of, and the timbering was sufficient to protect the underground openings. Definite mining costs are not yet available, and will necessarily be high at first. Definite mining costs are not yet available, and will necessarily be high at first. Development is being pushed in a proper manner on the 500, 700 and 800 foot levels. Sufficient new ore has been found to keep the mill running steadily at 20 tons per day.

The two great producers of Searchlight--The Quartette with a production of \$3,500,000 and the Duplex, with about \$800,000 to its credit--produced but little below the 600' levels. Below 400' the ore became of lower grade and contained more of the base metals, not economically adapted to amalgamation and the simple milling them used. The introduction of more modern methods, fine grinding and flotation, as at the new plant, should make it possible to mill such ore at a profit. Our inspection of the 800' level in the duplex, particularly the west drift in progress, indicates a favorable outlook there for new bodies of milling grade ore. The actual mining is being carried on by Mr. Frank Wagner, a thorough hard-rock miner of the Mother Lode area of California.

Development has not yet disclosed substantial ore reserves on any of the upper levels. The history of such deeper mining as has been done in the district is not entirely favorable, yet there has been very little exploration at depth. Our presence was welcomes, and after having examined the mine with Mr. Wagner during the afternoon, Mr. Loring urged us to go down to the bottom on the 800° level with him the next morning, which we did. The company is fortunate in having interested Mr. Loring, who has had wide mining experience both here and in Australia.

For a long period he managed the famous "Sons of Gwalia" mine in West . Australia, having succeeded to Mr. Herbert Hoover's interest in that property in 1908.

Lease on the Quartette Mine.

The formerly great Quartette Mine is inoperative, although during our visit a lease on some of the property was taken by Mr. E. L. Peters, who is at present in charge of the Duncan Mine in El Dorado Canyon.

EH BORADO CANTON DISTRICT

On June 2 we drove from Searchlight to 21 Dorad). The first stop was made to see the open stopes of the old Wall Street Mine, a fich producer of the 60's. Large gaverns were stoped gut to the surface. In places the vein was 12 kest wide or more with fairly good footwall, but a poorly defined hanging wall. The Large open stope, 300' long and 85' deep, is supported by a few ore pillars. The vein is very flex, dipping 350 SW, with a strike of N 60° E. The ore is a slightly silicified brecois of the country rock which appears to be quarks monzonite, and it was no doubt a difficult matter to differentiats ore from waste. This ore body was taken but completely and no conlindation of the veing were found. It was terpthated by faults on the bottom and to the north.

El Dorado Papire Mines Co.

C. E. Gresh, Manager, was greeted at the mine on the Black Hawk Claim. Mr. Gresh has discovered some new ore at the surface within a few feet of the 200 foot shaft on his property. He is of the opinion that a W & S fault with a westerly dip has out off the adjacent Wall

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