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the Saddle.

(a) The Champion claims were acquired by Nevada Champion Copper Company, an Arizona corporation, in 1907 by purchase from the locators or their grantees. No record of this company or its operations from 1907 to 1915 can be found, but for the greater part of this period no operations of any kind were carried on. In 1915, Charles P. McColm and W. B. Andrews, financed by M. E. Urner, purchased the majority of the capital stock, elected themselves directors and executive officers and immediately commenced ore production. This continued for about three years, i. e. until February 1st, 1917. The Company's operations during this period consisted entirely of stoping out existing ore bodies and cleaning up ore dumps of profitable grade. No development work whatever was done. The entire production was made from territory above the 150 ft, intermediate level. The writer was informed at the time by Mr. A. C. Bachman (now dead), who was the company's mine superintendent for the three years mentioned, that ore of the gross value of \$100,000.00 was produced. It is alleged in a bill for receivership of this company filed in the U. S. District Court for Nevada on March 14, 1918, that the ore produced during this period had a net value of \$50,000.00. Neither figure can be confirmed. Possibly both are correct, depending upon the meaning of the terms "gross" and "net".

(b) The Anderson claims were located in December, 1906, and January, 1907, and in May, 1913, were taken over by Mason Valley Mines Co. under working lease and option at

leasing its property. Among other leases granted was one to Henry and James Todd for a portion of the Copper Butte claim covering an incline winze from the North Drift, then 50 ft. in depth. The writer was granted and operated a lease block adjoining the Todds' on the south. A short drift extended northeasterly from the bottom of this winze but disclosed no ore. The Todd Bros. extended this drift about 30 ft. and opened a large body of ore from which they quickly extracted and shipped about 500 tons said to average 7% copper. This ore body still continues northeasterly on this level and can be examined and sampled. The Todds then deepened the winze to 125 ft. intending to drift to pick up the same ore body on its downward extension. Instead of drifting northeasterly as on the level above, these men, by one of the inexplainable quirks of mind characteristic of miners, ran a cross cut due west, exhausted their funds and abandoned their lease in March 1918. The writer and A. C. Bachman personally attempted to convince the Todds that their cross-cut was pointed in the wrong direction and could never reach the ore body they were seeking, but without success. The situation at this point is shown by Fig. 2.

McColm was appointed receiver for Pilot Copper Co. by U. S. District Court for Nevada on March 14,1918.

Among the company's creditors was its superintendent,

A. C. Bachman, with whom the writer was intimately acquainted.

His claim amounted to \$4660.00 and was listed as a common or unsecured claim. It was, in fact, entitled to preference as

Receiver's sale was held at Hawthorne, Neveda, on December 29th, 1919, and Theodore Stebbins, acting as agent for Agnes P. Bennet, appeared at the sale and successfully bid the sum of \$11,000,00 cash for the Pilot Copper Co.'s entire property. Bachman's claim was paid in full and, according to agreement, he reimbursed the writer the sum of \$1800.00 which had been paid Diskin and Tilder for fees and costs.

Reference is made to a print from an unsigned and undated mine map marked "Anderson Mine" for a more detailed description of the character and extent of the Copper Butte mine workings. It is believed this map was made during the time of Mason Valley Mines Co.'s operations. The Todd Bros.' workings are not shown on this map, having been run long after the map was made.

There is an old 50 ton one bin upon this claim but it is in show poor repair as to require partial reconstruction before use.

GEOLOGY AND ORE OCCURRENCES

The ore bodies occur in limestones which have been intruded by monzonite dykes and are associated with one or the other of two major faults known as the Champion Fault and Volcano Peak Fault. The Volcano Peak Fault has been referred to by Hill (see U. S. G. S. Bulletin 594). It traverses the Saddle, Goodenough and Copper Butte claims, striking about N 40° W and dipping southwest. If this fault persists in depth, it would pass under the Willie Higgins claim below any existing workings.

The Champion Fault strikes east and west through the Higgins claims and dips south. No valuable ore has been found in the footwall of this fault. It is encountered by the Champion Main Shaft at about 190 ft., vertical depth. (Fig. 1)

In the writer's opinion, the ore bodies are secondary depositions but this quistion is controversial. They are now completely oxidized and are porous, soft and friable. The copper minerals are in the forms of carbonates, silicates and oxides with much hematite.

portions of ore bodies carrying from 4% to 9% cooper, leaving the low grade shells standing. Measurements and sampling of existing ore bodies are said to expose in these claims, standing in mine and on dumps, approximately 250,000 tons of 2½% cooper ore. The source of the writer's information as to these figures are the allegations to that effect in the bill for receivership, above mentioned, and oral comminications made to the writer, about 1917, by A. C. Bachman and John C. Skuse, then respectively mine superintendent and mining engineer of pilot Cooper Co. These statements are supplemented by frequent personal observations and estimates based upon actual personal experience and knowledge in mining these and other similar ore bodies in the same district.

In the writers coinion, these figures are substantially correct. If for any reason ore of this grade and character should ever become profitable, a small amount of additional development would probably expose not less than one million tons of the same grade and character. Three specific areas will be mentioned as promising to that end: 1st, the so-called West Hill ore body in the extreme northwest corner of the Willie Higgins claim; 2nd, the area (approximately 750)

The rock stands well without the necessity of timbering.

Large, open stopes which have stood untimbered for years with-

There is a good mountain road from Luning to the

out any caving whatsoever are numerous in the old workings.

Some of these openings are 75 ft. long, 40 ft. high and 15

mine, traversable by automobile or truck.

ft. wide.

13. at least an additional 75 ft. and mining again commenced at the lowest horizon. In short, the Todd ore body should be aggressively followed downward so long as its size and copper content justify extraction. (b) A careful, detailed geological reconnoissance, both surface and underground, should be made of the entire property and the results mapped. Pspecial attention should be given to the two faults, and all available evidence assembled to determine the position of their surface outcrops, their dies and their age with respect to ore deposition, that is, whether post-mineral or pre-mineral, the direction and extent of fault monement and determination of which side moved in relation to the other. Also some attention should be given to the area of their presumable intersection (Nothern half of Copper Butte claim.). The importance and future value of the assembly of such geological date can hardly be overestimated. (e) An exploratory cross-cut should be run south from the 200 ft. Iv. of the Shampion Shaft to test a virgin section of the hanging wall area of the Champion Fault. Although hundreds of feet of latteral work was done by former owners at and below the 200 lv. of the Champion Shaft, not one foot of this work penetrated the hanging wall of the fault, from which all the former production had been made. (d) A 50 ft. incline prospect shaft was sunk near the trail on the Goodenough claim, about 200 ft. south of the Anderson Glory Hole, for the evident purpose of testing a

14. promising gossan outcrop on the Volcano Peak Fault and a short cross-cut toward the fault was run from the bottom. In the writer's opinion, this cross-cut failed to reach its objective and it would be well to continue it to the fault. The geological information gained would be of value to appraise the possibilities of the southward continuation of the Copper Bute ore body. This shaft is indicated as Pat. Imp. No. 1 on the official patent survey. CONCLUSION Admittedly, these claims, as they now stand, constitute a marginal property, i.e. one whose profitable operation is possible only during periods when copper metal is at or shove a certain figure per pound. In this instance the minimum price is approximately 13% and the minimum grade approximately 6%. If the market price of copper increases above 1866 the profit on a theoretidal 6% ore is correspondingly greater and, conversely, ores of less than 6% grade are rendered profitable. The chance of large increase in the value of this property muct necessarily depend upon one or more of four possible future events coming to pass, namely: (1) The discovery of important virgin bodies of 6% or better ore. (2) The discovery of extensive sulphide ore bodies averaging, say, 25% copper. (30 The discovery of a process by which the known ores can be either profitably treated or concentrated in the immediate vicinity.

15. (4) An increase in market value of copper metal to a figure high enough to render, say, 3% copper eres profitable at custom smelting plants. A rating of these contingencies in the order of there probability according to the writer's judgment would be as follows: (1) is reasonably certain to follow fram a reasonably amount of intelligently directed work. (2) is a good probability, but not certain. This is the chance for "big money" in this property. The adventure for millions lies down this road. (3) is an economic question purely, lying entirely outside the realm of geology or mining. If a person can visualize a future copper price of 20% per bound (and there ame many who do), there are large profit possibilities in this property. (4) is a question of future improvements in the benefication of copper ores. If, for example, the process of concentration known as "flotation" ahould be successfully applied to oxidized copper ores, this property would take on immediate value of \$250,000,00 without any further development whatever, for the reason that by that process the 250,000 tons of known ore would net at least \$1.00 per ton profit. (1(and (2) are legitimate mining chances. (3) and (4) are remote but are, nevertheless, entitled to dome weight in appraising the ground.

continue downward, there would normally come some point where their character would change from oxide to sulphide. Thereis not much evidence available in this case useful in formings n opinion of the depth at which such change would take place. A body of true sulphide ore (shalcocite and chalcopyrite) was found on the intermediate level ((150 ft. vertical depth) of the Champion at the head of the raise. Strangely, no work was ever done to determine the question of its downward dontinuence. In the writer's opinion, 500 ft. of vertical depth on the Anderson ore bodies ought to settle the question. There is no doube that the Mason Valley Mines Co.'s plan of development, had it been able to renew its option, pointed in this direction.

At the first demonstration that true sulphide ore bodies of substantial size have been proven in this groune, it could be quickly sold to any one of the larger copper companies, notably Anaconda, which has already entered Nevada in two instances, to-wit, Silver Peak and Copper Mountain.