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VAN DYKE COPPER COMPANY

3/15/39

Owned by Cleve Van Dyke and Hoval A. Smith 387 E. Thomas Road  
Phone 3-8311

(Conference with Smith)

Area 1800 acres and extends for length of 2.5 miles from Miami Copper Co. claims to claims of the Old Dominion Co. which formerly mined ore on 2000' level right up to the Van Dyke ground. Have vertical side line agreements with both of these companies.

Owners have spent over \$900,000 for property and development to date and were shipping 5% copper ore at rate of 200 tons per day during '28, '29 and until market flopped in '30, shipped 12,000,000# of copper.

In this district there are a series of faults radiating from Schultz Mt. which seems to be the source of the ore and the main workings of the Van Dyke are along a fault fissure which is nearly vertical and strikes east and west. Ore in upper levels is azurite and malachite with chalcocite coming in on 1400' level. Smith thinks that there should be other similar bodies of ore along the other faults but "these have not yet been explored although three or four such vein systems are indicated.

Much of the surface of these claims is capped with lava to a depth of 700' and then there is schist and porphyry with disseminated copper in places to a depth of 1300' and

there is a chance for a very big porphyry ore body but systematic drilling would be required to determine its extent and value and Smith thinks that the high grade ore along the fault fissures should be mined before any caving or slicing of the porphyry ore is undertaken. The claims underlie the entire townsite of Miami and also the pumping plant of the Miami Co.

Most of the work in the mine has been done from the 1200' level down to 1550' and the ore bottoms in the granite-porphyry at a depth of 1700' where the main shaft bottoms.

There has been a lot of post mineral faulting throughout all this district which has broken up the ore bodies into blocks and segments.

Along the fault fissure the width of the higher grade ore varies from 12' to a maximum of 160' in width at one point and the grade is about 5.5% copper. The carbonates were found mostly on the 1300' level and chalcocite on the 1400' and 1600' levels. The vein has been partially explored for a length of 2500' and below the 1200' level where the porphyry overlies the schist. Smith thinks that proper development might prove up 2,000,000 tons of this better grade ore altho such a tonnage can now only be classed as possible. The richer ore is not found below 1550' and it appears that the best zone is therefore limited by the 1200' and 1550'

levels making vertical height 350' and length 2500' and average width perhaps 20'. If this section of the vein was all pay ore it would represent some 450,000 tons of ore but chances are that the shoots are not continuous.

The richer ore grades down to 3%, 2% and 1% and since obviously only the richest ore was mined for shipping and appears to have been gouged out from pockets and lenses it is also probable that the average grade would be substantially less than 5%.

Gold and silver values were not stated. Smith says that at one time they refused an offer of Tom Cole of \$3,500,000 for this property but indicated that they would now be glad to consider terms which would provide that a large part of the payment should be made on a royalty basis but do not want to deal with Inspiration (Anaconda).

No doubt that this is a valuable property considering location and statements by Smith which ought to be reliable but grade, tonnage and location of porphyry ore seem to be quite unknown and tonnage and grade of high-grade must be proved by further development.

Apparently they have not so far been handicapped by heavy flow of water as found in the Old Dominion but this possibility should be studied.

Further data and maps can be secured from Smith and surface should be visited on next trip to or thru Miami.

Consider possibility of combining this ground with the Louis d' Or if any of the latter area would appear to have any value as seems quite probable. (See file)

VAN DYKE COPPER COMPANY

At a special meeting of stockholders of the Van Dyke Copper Company, held at the company offices in Miami, Arizona, resolutions were passed authorizing the officers to proceed with plans for re-opening and operating the mine. Van Dyke workings at present are under water. Cleve W. Van Dyke, Miami, is president of the company.