

Jan 29/89

John:

As per our phone conversation of today herewith some brief comments on the West zone ore deposit.

I have almost completed the overall interpretation of the West zone deposit. This new interpretation is based mostly on detailed underground mapping of drifts and raises and general observations of vein trends and characteristic

Briefly, the following are valid comments derived from the above.

- 1) Each mineralized zone and ore shoot is distinct (i.e. the R-1 is characterized by a narrow but continuous quartz vein hosting always ruby silver, tetrahedrite and pyrite. The R-6 is characterized by a massive, milky, vuggy, quartz-carbonate vein hosting weakly disseminated tetrahedrite, sphalerite and galena, etc.
- 2) Each ore shoot has a fairly characteristic grade i.e. R-1 is always around 2.000 Ave while R-4 is usually around 0.800 to 1.000 Ave while R-6 is usually around 0.250 to 0.300 Ave
- 3) Using the detailed back mapping of the 1300 and 1350 levels we know with ~95% certainty which is the R-1, R-2, R-6 etc on each level. In fact I am very confident that there are at least 10 ^{distinct} mineralized (ore shoots) zones in the West zone.
- 4) Using the detailed mapping of the raises from level to level I am very confident in connecting the R-4, etc zone on both levels.
- 5) The cross sections are very misleading in

this geological interpretation. The ~~the~~ level plans at 10 meter intervals with the raise data and level mapping has enabled a proper interpretation of each vein system in terms of predicting ore contacts and vertical extent of each zone.

- 6) With the level plans and the reinterpreted cross sections, each zone and vein can be seen to be much more traceable than secondly thought. The level plans readily show abrupt changes in strike, plunges and trends.
- 7) Using the level plans I have been able to predict the end of ore zones in raises, ~~adjacent~~ veins adjacent to ~~the~~ raises, where the ore contact should be on several ~~the~~ level plans with ~~no~~ little or ~~no~~ drilling.
- 8) ~~and~~ We have predicted ~~by projection~~ ^{by projection} methods what the grades ~~of~~ various shoots should be and where the contacts should be. These predictions were done on a trial basis around sections 5100-5150, level 1260 & 1280.
- 9) The level plans will enable a more detailed and accurate ~~mineable~~ mineable ore reserve calculation. They will also greatly help in mine planning and design.
- 10) I will bring mylar copies of all plans etc to Vancouver around Feb 5-6.

Charles Dean

cc: John Mitchell

DON McLeod - Feb. 1/89
MOHAN VUJICURI - Feb. 3/89