

Maureen Johnson

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Roscoe M. Smith

Pershing County manuscript

Your nearly completed manuscript was reviewed March 3-7, 1972, for content and technical accuracy. Except for a few typographical errors, no pencil marks were made on it. My review was made more difficult because you write so interestingly that I am repeatedly distracted from technical considerations.

In general, the report has good balance. If you should wish to expand it slightly you could insert actual thicknesses of formations and dimensions of stocks in lieu of "large," "small," "thick," and "thin." On the other hand, should you want to shorten it a little, you could take out the very few dead words such as "located" and west (in "strikes east-west").

The following cryptic comments refer to specific pages and numbered lines.

- 2: 2-13 Not related to the Antelope district?
- 5: 10 A shear zone "intrudes"?
- 7: 6 What localized the vuggy breccia and the tin?
- 8: 2 The tin-bearing vein is not mentioned on p. 7 under tin. Is it a quartz vein?
- 8: 21 Is the dike one of the veins?
- 4: 7 (Antelope Springs) The Relief fault has not yet been introduced.
- 5: 7 Complex faulting is not mentioned under "Geologic Setting."
- 5: 9 Ore cannot be formed by "ponding."
- 7: 7 Topography as an ore control suggests that the "rich silver ore" (line 5) ought to be identified as secondary enrichment.
- 7: 8 Remobilized silver ore doubtless is secondary. Ignore *my* preceding comment?
- 40: 22 How did oxidation enrich the tungsten ore?

42: 1 Is the ore zone in limestone or granodiorite?

12: 9-11 (Imlay district) I don't get the picture.

13: 18 Does "spacially associated" mean within, along, near, parallel with, across, or in the same county?

47: 1-9 What is the host rock at the Ore Drag mine? How wide is the shear zone?

50: 20 How thick was the ore body?

54: 13 Is the Blue Wing at the south end of the stock?

62: 8 "Argillized zone"--is this argillized conglomerate or volcanics? "Certain" is a way of saying uncertain. Are the ore bodies along the bedding?

89: 14 Which district is west of which?

56: 16 (Rye Patch) "... fluids and solutions ... grade into pegmatites"?

98: 8-11 "the dikes ... localized the gold in the latest veins ..." How?

98: 12 What are the silicified ribs? Not introduced previously.

100: 1 Add "ore deposits" to heading?

105: 14 What kind of sedimentary rocks? What kind of metamorphic rocks?

59: 14-16 (Sierra district) Needs quotation marks? Should read "\$100 per ton of ore"?

122: 7 Sericite mine not described.

127: 8-9 Is the vein in rhyolite or diabase?

127: 24 Diabase is an offshoot of granodiorite?

128: 8 Word or two left out?

107: 20 (Staggs district) Are quartz veins known to "intrude"?

137: 14-18 Snow job?

73: 10 (Trinity district) Mineralization is a process.

144: 4 The three geologic settings are not very distinguishable.

- 144: 17 Veins are known to be in limestone. Why not delete "intruded"?
- 145: 1-2 Does "Source or channel" mean that the two words are synonyms, or that the rhyolite is one or the other?
- 145: 10 Is the Kiopato porphyry the same as the Kiopato rhyolite of line 1, and as the rhyolite porphyry of line 12?
- 146: 7 Somebody is sure that veins are intruded. I am not.
- 148: 5 Is the argentite known to be supergene?

Plate II. Map showing mining districts

The word BOUNDARY should not be used in the title or explanation, or in the text. I suggest we retain the lines around the districts but call them "current extent" of the district, or "known extent" of commercial deposits.

To find a district on this map, I have to look up the township. Perhaps the names should be larger.

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