## ABOUT BARREN ZONES.

Oid Theory That Values Are Beneath Fully Established.
lo mining an ounce of proved fact is worth a ton of unproved theoty. There are many theories as vet emproved. etally krown nou, that wert mice bil proved theories. Ont of thone theotirs, concerning batren cones, to last becombing
an established lact. It is the nid probirm It a new phase. "D. minion ge sublip" III期'ress, thete crime a time in the development of a mine whell zones batren of all ores ate enciunteted. I iois generally sicurs in the case of swiphide ote When what may te shled the permament
water level is teached, and contmues through what may simitarly be termed the ebb and flow water line.
the theory here comes in that through the seasons this permanent water line tives and recedes, somertimes in Time's countless meons being bigher or lower than at others, the ore tecoming decomposed and the ores being leached out, new ofe bodies meanu hile forming containing no metallic value, occastoning a barren zone. Another theory takes up the dissolving of metals by hot alkaline water, carbonic acid being present, which, meeting with volcantic gasses from belon, would precipitate metals "along the lines of least tesistance," thu occastoning batren zones, the character of the rock through which the vein in its entirety passed; not being throughout its entire extent faverable to the deposition of re.
The possession of sufficient nerve and money has demonstrated the existence of paving ore bodies below such barren zones. tWhatever the cause, the theory that such barten zones actually exist has passed futo the stage of accepted tact, it having teen found that below such barren zones existed ore of equal value with that above, and that the permanent water line no bouger marked the bunt of protitable miting.
I he fact has been demonstrated in deep minng in California, Colorado and Montom, where some of the best paying mines wete once abandoned, 141 modern mining methodv permitted depper working. In Astastor county, Cahtornis, the Kennedy gold mine, one of the ifibest in the state, wis barten of all pay ore for beath 200 feet in depth. In Calaveras county the great Cisill mine was once sold tor a sonk. beanse of the occurtence of a batren zone. In Stera connty, Calforna, the Sterna Buttes mine was worked to a depth of neatly 3,000 feet, when a "batren tone" was enconitered, and this property, which bince operated o6 stamps and has a tecord of $\$ 15,000,000$ output, is now abandoned. I. Montana, the Comet-Rumley mine, at Comet, Jefferson county, was a big sliverlead produce, when at a depth of 1500 teet the ofe gave out, but upon shoting through a "batren" zone of 6o,feet a body of gatena eight teet wide was found, and the mine's rutput was greater than ever. The sume conditions are demonstrable in Cripple Cieek and elsewhere in Colotado,

## J. S. Hughes Back from Missouri.

J. S. Hughes, futerested in the Standard kroup in the Quattryure district, has teturied trom a probonged visit with relatives in Missouri. He spent some time in the zinc fiels. of that state and reports thet the industry is in a floutishing condirion. Together with United States Maralal Hourer, who is one of the latg. est owners in the Standard, he passed through Sumpler Mondis, on bis way to the mine. That praperty will continue to be worked systematically, but it is not vet determined when the smelter will be put it.
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## ```W.S. BOWERS \\ ABSTRACTS \\ #小```

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