(200)
R290
74-1124 no 74-1124

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EXPLANATION

Fault
Many faults with up to a few inches of relative displacement are in the saprolite but are not shown

Strike and dip of foliation

Lineation showing plunge

Strike and dip of joints

Shallow mine workings

Adit

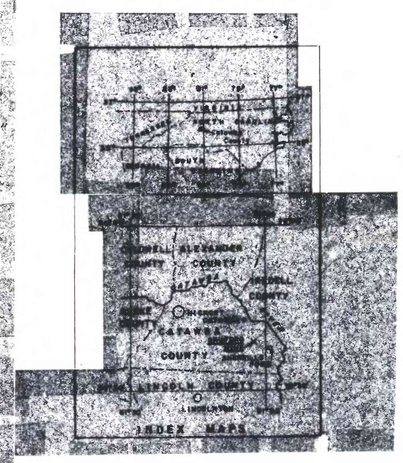
Sample collecting station and field number
Stations 276 - 279 were sampled in 1967 by J. W. Whitlow
Stations 1018 - 1049, 1054, and 1070 were sampled in 1968 by J. W. Whitlow. A grab sample of soil for geochemical analyses and approximately 6-quarts of soil were collected at each station; two grab samples and two large samples of soil were collected at most of the stations 1018 - 1044. The 6-quart samples of soil were washed by panning to recover resistate heavy minerals, which were analyzed for metals
Stations 1291 - 1423 were sampled in 1972 by J. W. Whitlow and J. F. Windolph. Grab samples of soil for geochemical analyses were taken with a 1½-inch soil auger from the soil surface to a depth of approximately 16 inches at stations 1291 - 1377 and 1388 - 1418. Samples from channels 5-feet long were taken at stations 1378 - 1387 and 1423. No resistate heavy minerals were recovered.

• 1027 H@22(20)

Station that is source of sample in which gold was detected by the atomic absorption method.
20 - ppb (parts per billion, 10^9) gold detected in grab samples by the atomic absorption method
© After the station number indicates that gold was visible in the concentrate containing the heavy minerals while in the pan; applies only to stations 276 - 279, 1018 - 1049, 1054, and 1070.
(10) - ppm (parts per million) bismuth detected by the semiquantitative spectrographic method.
[3] - ppm (parts per million) silver detected by the semiquantitative spectrogranhic method.

As - Arsenic Sn - Tin
Mo - Molybdenum Zn - Zinc

Other metals detected in trace amounts by semiquantitative spectrographic analysis of grab samples.



Inset 1. Channel samples from the walls of the mine pit

Inset 3. Vertical channel samples from the walls of the mine pit.

MAP SHOWING SAMPLE COLLECTING STATIONS AND GOLD ANALYSES IN AND NEAR THE SHUFORD GOLD MINE, CATAWBA COUNTY, NORTH CAROLINA

By
Jesse W. Whitlow and John F. Windolph

1974