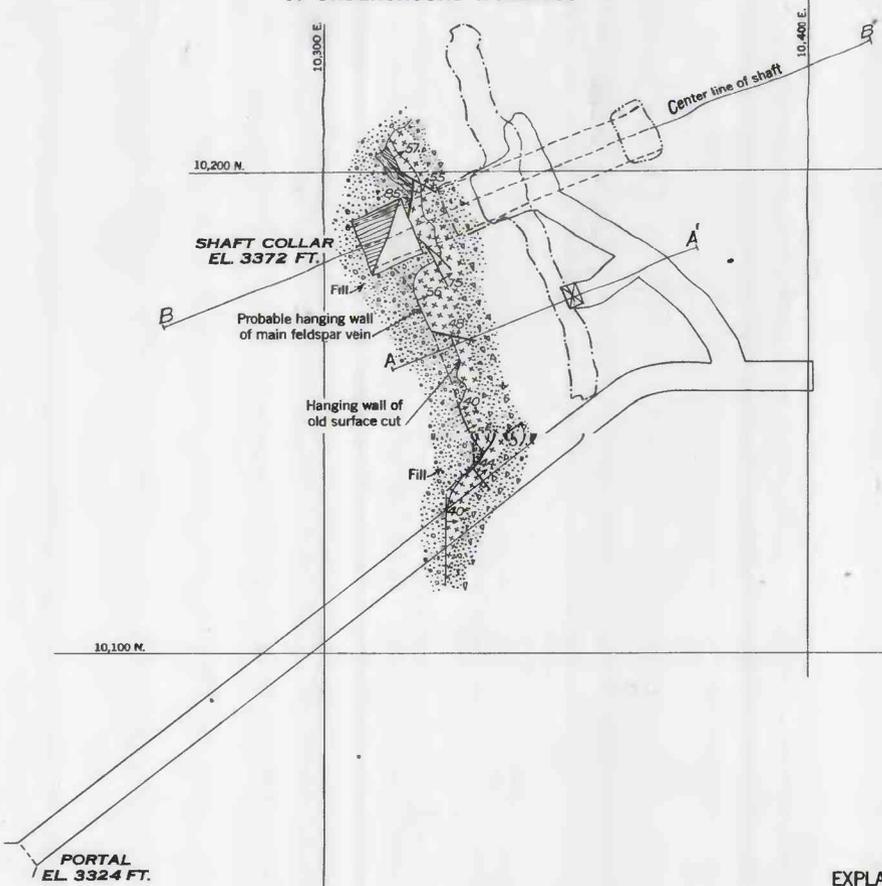
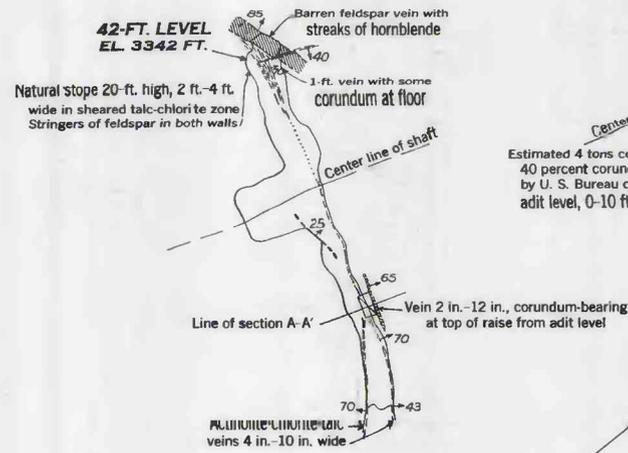


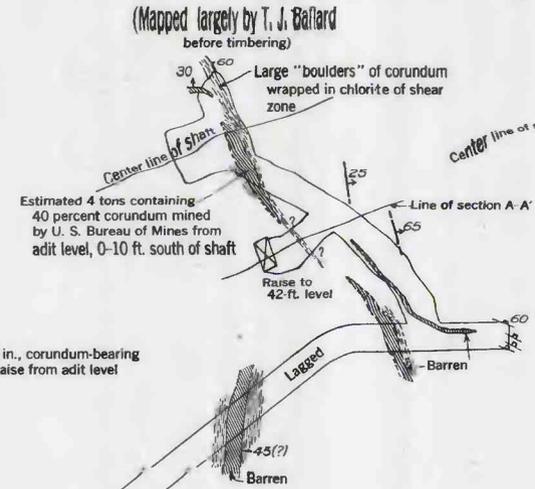
**SURFACE GEOLOGY AND COMPOSITE PLAN
OF UNDERGROUND WORKINGS**



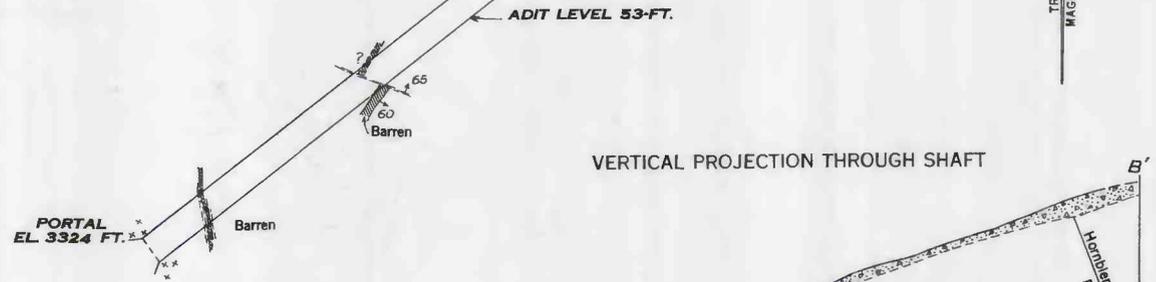
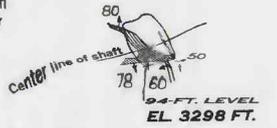
PLAN OF 42-FOOT LEVEL



ADIT LEVEL

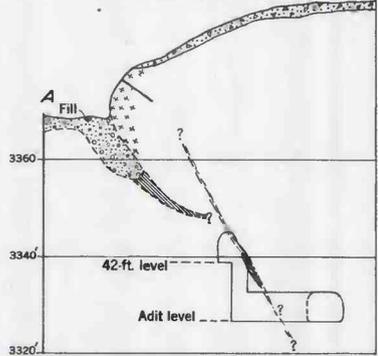


PLAN OF 94-FOOT LEVEL



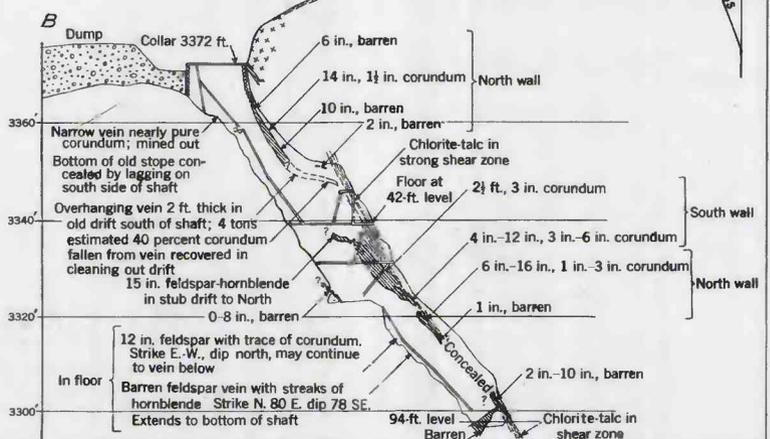
VERTICAL PROJECTION THROUGH SHAFT

SECTION A-A'

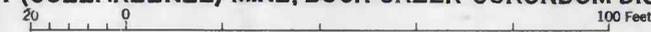


EXPLANATION

- Surficial material
- Dunitic
- Feldspar-hornblende veins, showing dip (Locally contain corundum)
- Chlorite and talc in shear zones, showing dip
- Actinolite-chlorite veins in dunitic, showing dip
- Strike and dip of joints in dunitic
- Strike and dip of foliation
- Timber, ladders, and bulkheads
- Adit level
- 42-ft. level
- 94-ft. level
- Local coordinates based on magnetic north
- Workings heavily timbered; walls not visible at most places. Workings in dunitic except as indicated otherwise
- Outline of underground workings on composite mine map



GEOLOGY OF THE BIG SHAFT (CULLAKEENE) MINE, BUCK CREEK CORUNDUM DISTRICT, CLAY COUNTY, N.C.



Base and geology by J. B. Hadley and Jacob Freedman, U. S. Geological Survey and T. J. Ballard, U. S. Bureau of Mines January 1945