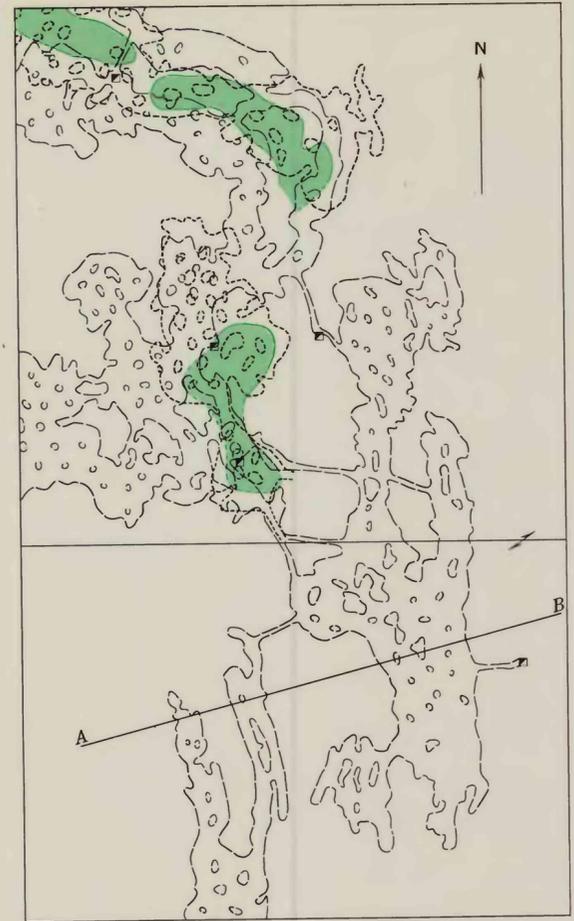


A. MAP OF M BED LEVEL

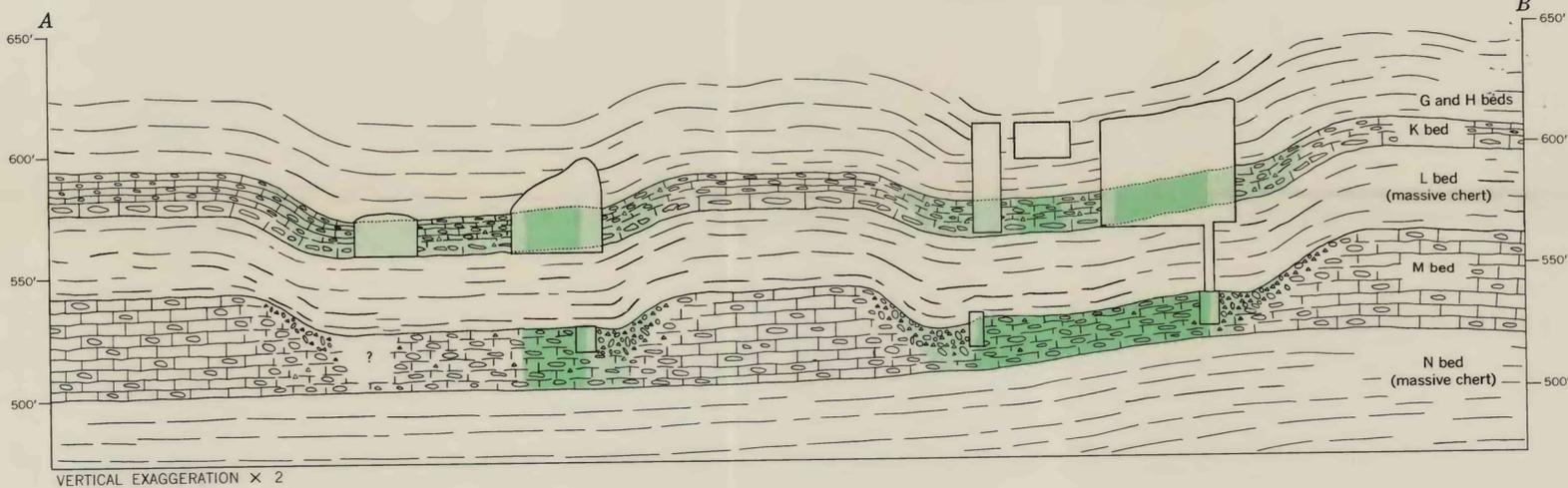


B. MAP OF K BED LEVEL  
(WORKINGS ON M BED  
LEVEL SUPERPOSED)

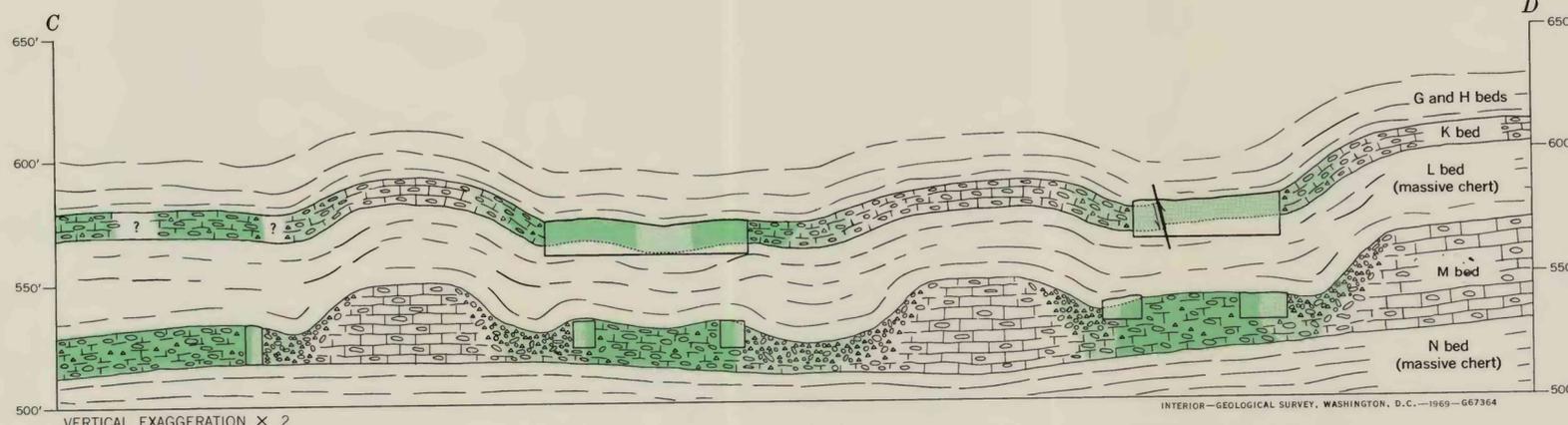


C. MAP OF G BED LEVEL  
(WORKINGS ON K BED  
LEVEL SUPERPOSED)

100 0 100 200 300 400 500 FEET



VERTICAL EXAGGERATION  $\times 2$



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D. SECTION ALONG LINE A-B, TULSA-QUAPAW MINE, AND  
SECTION ALONG LINE C-D, BENDELARI MINE

Both sections show thinning of ore-bearing strata in dolomitized ground and adjacent strongly leached ground, superposition of dolomite cores on two levels, and restriction of M bed stopes to edges of dolomite. (See plate 5 for locations of Sections A-B and C-D)

100 0 100 200 FEET  
DATUM IS MEAN SEA LEVEL

EXPLANATION

- Limestone  
*Virtually unaltered, with nodular and bedded chert; chert may be brecciated*
  - Partially leached limestone  
*Generally partly to completely replaced by dolomite or jasperoid; contains some residual clay and introduced shale; chert usually concentrated and brecciated*
  - Strongly leached ground  
*Dominantly raggy and porous; "boulder ground," in part; contains chert nodules and fragments with varying amounts of jasperoid, clay and shale, calcite, and limestone remnants*
  - Gray spar dolomite matrix  
*Partly to completely dolomitized limestone. Dolomite is partly replaced by jasperoid. Orebearing where mined by stoping. Figures A, B, and C show only distribution of dolomite. Borders dashed where approximate; queries indicate mainly workings opened after completion of fieldwork*
  - Jasperoid matrix  
*Partly to completely jasperoidized limestone or dolomite; forms thin films on chert nodules in strongly leached ground; orebearing where mined by stoping*
  - Contact
  - Fault  
*Showing direction of movement*
  - Workings on G bed level
  - Workings on K bed level
  - Workings on M bed level
  - Mine stope
  - Shaft
  - Winze
  - Inclined workings between levels  
*Chevron point down*
  - Property tie
- See plate 5 for location of Bendelari and Tulsa-Quapaw mines within the Picher field

MAPS OF THREE LEVELS OF THE TULSA-QUAPAW MINE, AS OF 1940, AND DIAGRAMMATIC SECTIONS OF THE TULSA-QUAPAW AND BENDELARI MINES, KANSAS, ALL SHOWING RELATION OF STOPPED GROUND TO THE GRAY SPAR DOLOMITE