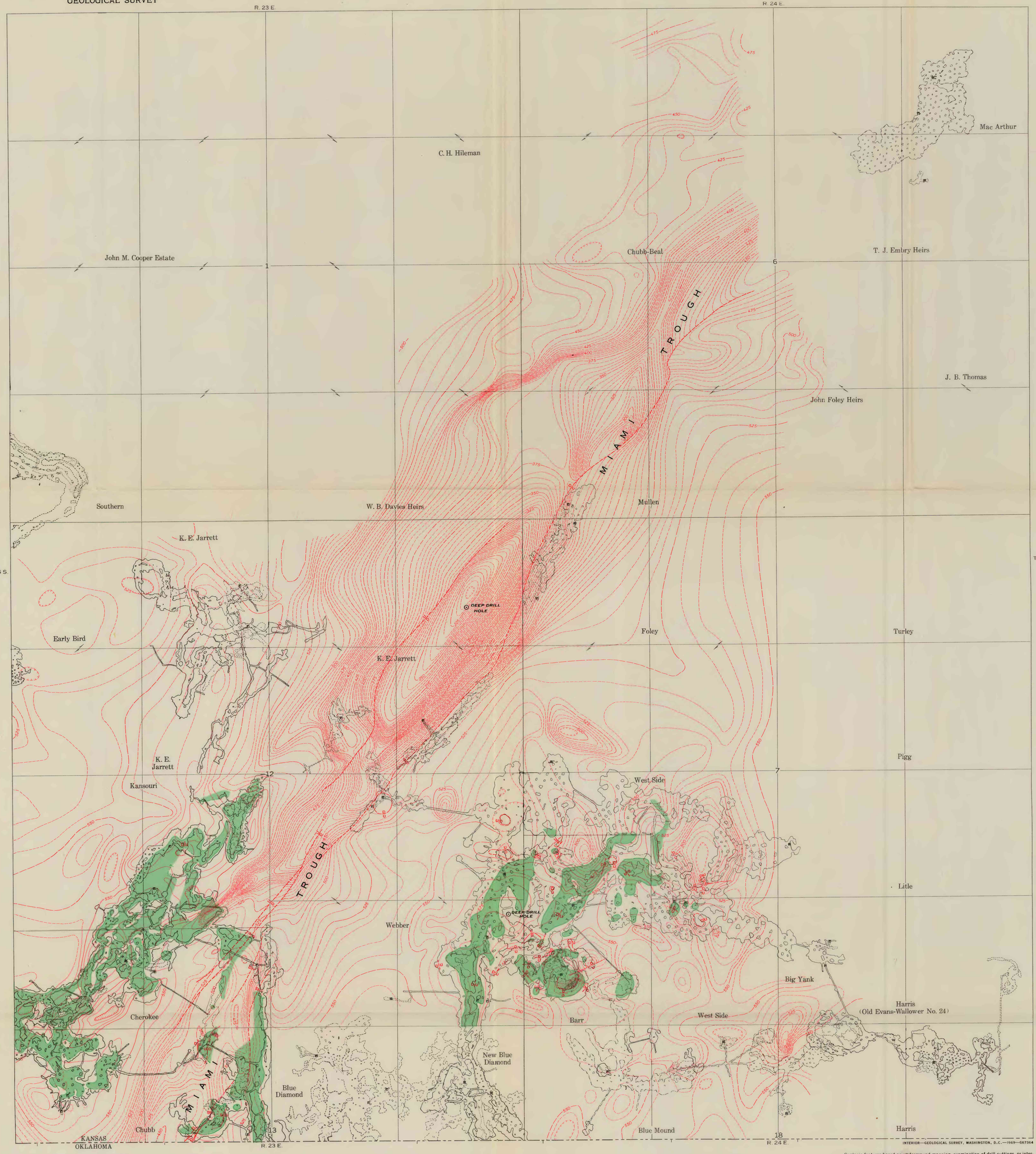


Base, underground workings, and classification of workings from Eagle-Picher Co., 1:3,600, 1956

Geologic features based on underground mapping, examination of drill cuttings, or interpretation of drill logs by E. C. Addison, K. R. Bowie, D. C. Brockie, H. M. Callaway, N. E. Eastmore, Jr., R. P. Fischer, P. K. Hurlbut, Andrew Kuklis, J. P. Lyden, E. T. McKnight, Curtis Templain, J. M. Thiel, and F. G. Wells, 1934–62

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## EXPLANATION

**Dolomitized areas in M and higher beds**

*Boundary dashed where inferred or generalized; queried, mainly in workings opened after fieldwork was completed*

*The dolomite mapped is coarse-grained massive gray spar, not the pink spar, which is slightly more widespread than the gray spar though commonly coextensive with it. Boundaries shown are extreme limits of the gray spar; hence colored areas may also include much jasperoid interbanded or intimately intermixed with gray spar. Included in colored areas are small local areas from which gray spar is excluded by "soap" (both residual clay and introduced Pennsylvanian shale), by limestone (small residual blocks protected from solution or dolomitization by shells of "soap"), and by chert (either residual after removal through solution of all calcareous material, or possibly in part new, formed by additional chertification)*

*Note the many places in which ore runs follow very closely the borders of dolomitized areas. This localization of ore is likely to be pronounced where ground bordering a dolomite mass is either jasperoid or "boulder ground"; it is much less pronounced, or nonexistent, where M bed in the bordering ground contains excessive amount of "soap" or is almost completely "chertified." Centers of the dolomite masses may or may not contain enough lower grade ore to be minable; many are so barren or low grade that no workings have been extended into them*

**Fault**

*Dashed where inferred. U, upthrown side; D, downthrown side*

**Slump pipe**

*Dashed where inferred. U, upthrown side; D, downthrown side*

**Structure contours**

*Drawn on top of Grand Falls Chert Member of Boone Formation, equals top of N bed of Fowler and Lyden (1932). Dashed where inferred. Hachures indicate closed basin; only innermost contour in a continuous decreasing sequence is hachured. Contour interval 5 feet. Datum is mean sea level*

**Shaft**

**Workings in Chester strata and E bed of Fowler and Lyden (1932) (E bed is in Moccasin Bend Member of Boone Formation)**

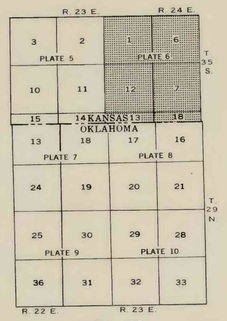
**Workings in G and H beds (Moccasin Bend Member of Boone Formation)**

**Workings in K bed (Baxter Springs Member of Boone Formation)**

**Workings in M bed (Joplin Member of Boone Formation)**

**Workings in N bed "sheet ground" (Grand Falls Chert Member of Boone Formation)**

**Property tie**




INDEX MAP

# MAP SHOWING STRUCTURAL GEOLOGY AND DOLOMITIZED AREAS IN PART OF THE PICHER ZINC-LEAD FIELD, OKLAHOMA AND KANSAS; NORTHEAST SHEET

500 0 500 1000 1500 2000 2500 FEET