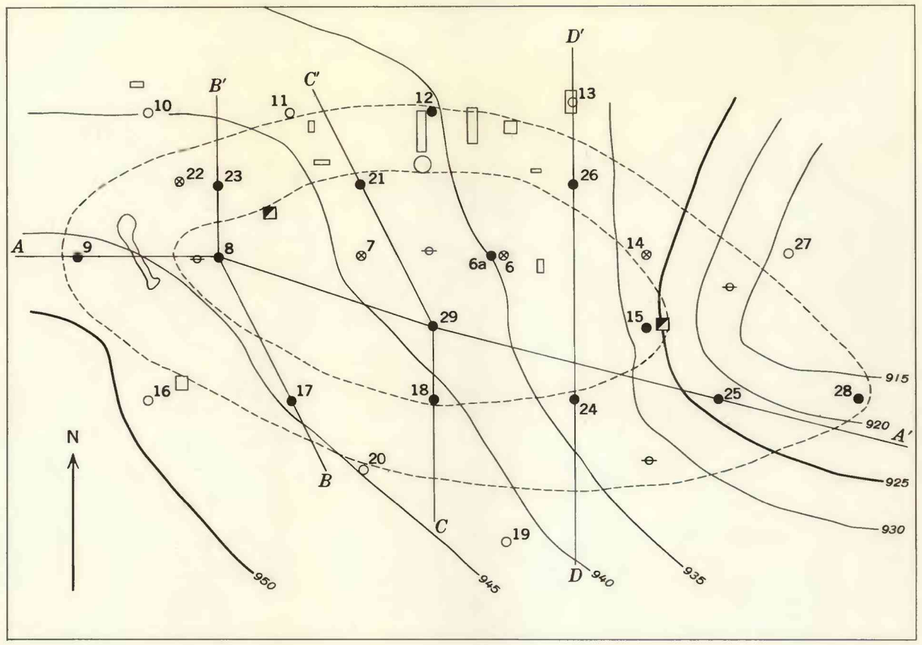

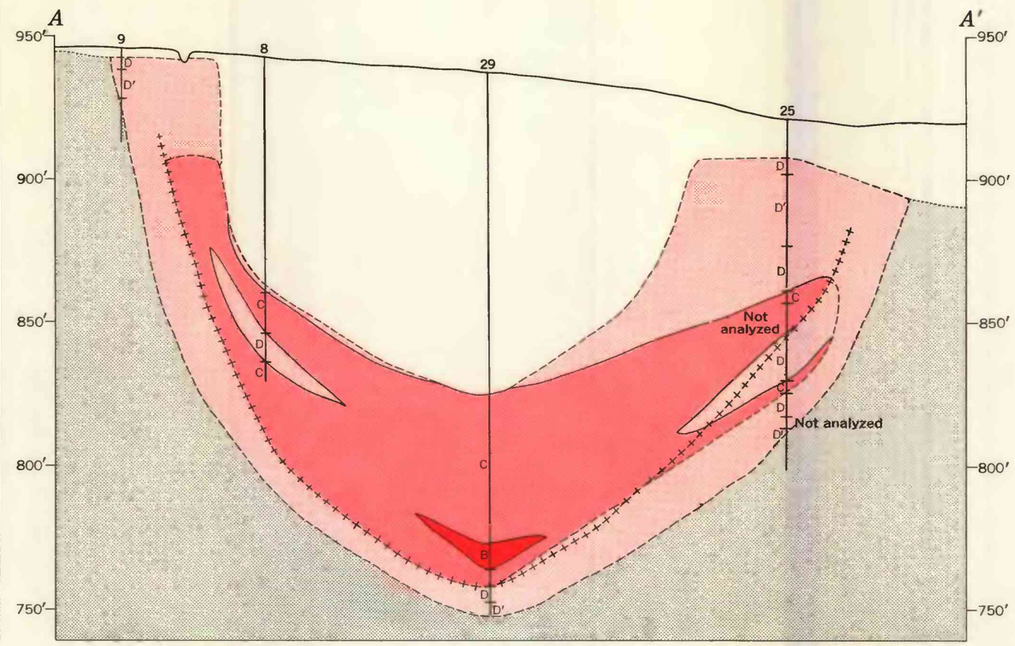

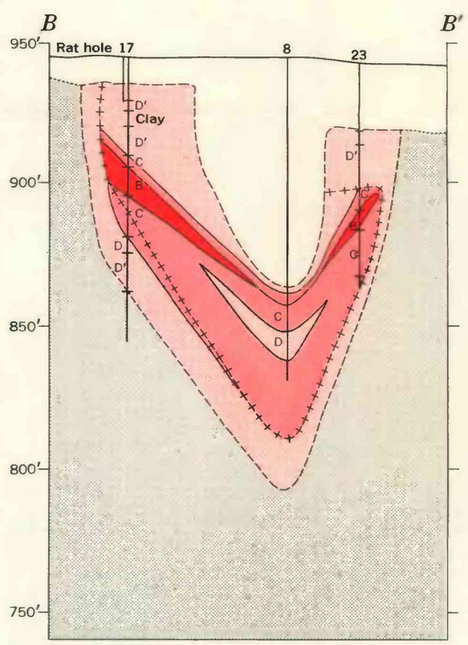

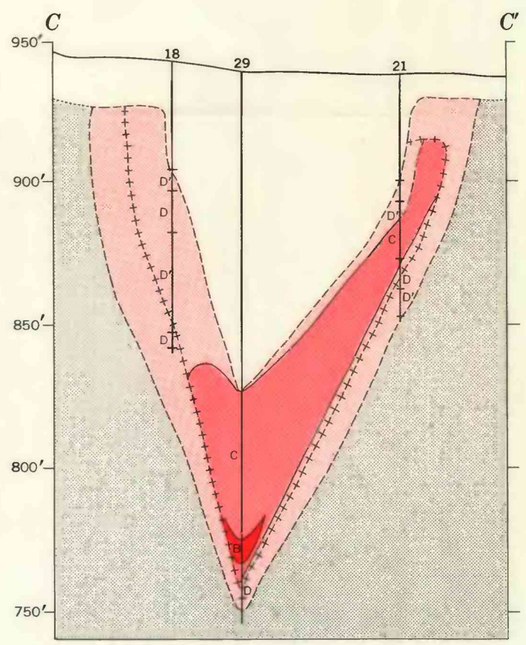

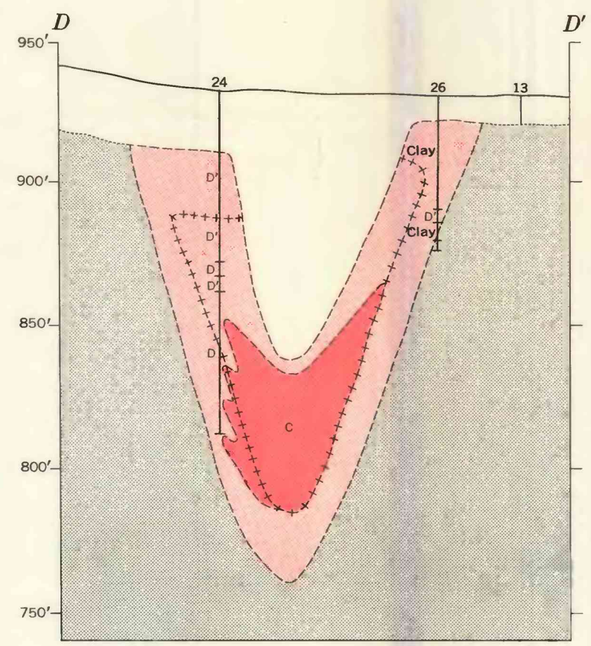

EXPLANATION

Grade B bauxite

Grade C bauxite

Undifferentiated bauxite material, largely grades D and D'
Contains some grade A and B bauxite as shown by analyzed samples from test pits, but has irregular inclusions of sandy clay in upper part

Clay and chert residual from the Copper Ridge Dolomite. Chert in grain to boulder size

Sand, sandy variegated clay, and chert fragments predominantly in grain and granule sizes

C
D
D'
Clay <30% Al_2O_3

Grades of analyzed bauxite penetrated in drill holes
Modified Thoenen and Burchard classification

+++-+
Approximate inside limit of ferruginous zone

– – – – –
Outline of deposit
Bauxite or bauxitic clay is near the surface in the area between these lines. Overburden fills a depression 112 feet deep in the central part of the deposit

○111
Numbered drill hole

●115
Drill hole in bauxite

⊗114
Abandoned drill hole

Suggested location for drill hole to further delimit the deposit

Shaft

Shaft penetrating bauxite

Test pit or trench

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1965—G65129

Geology by J. C. Dunlap, 1943

TOPOGRAPHIC MAP AND SECTIONS OF THE J. F. SMITH PROSPECT, SUMMIT KNOBS AREA, CHATTANOOGA DISTRICT, TENNESSEE

50 0 50 100 150 FEET

50 0 50 100 150 METERS

CONTOUR INTERVAL 5 FEET