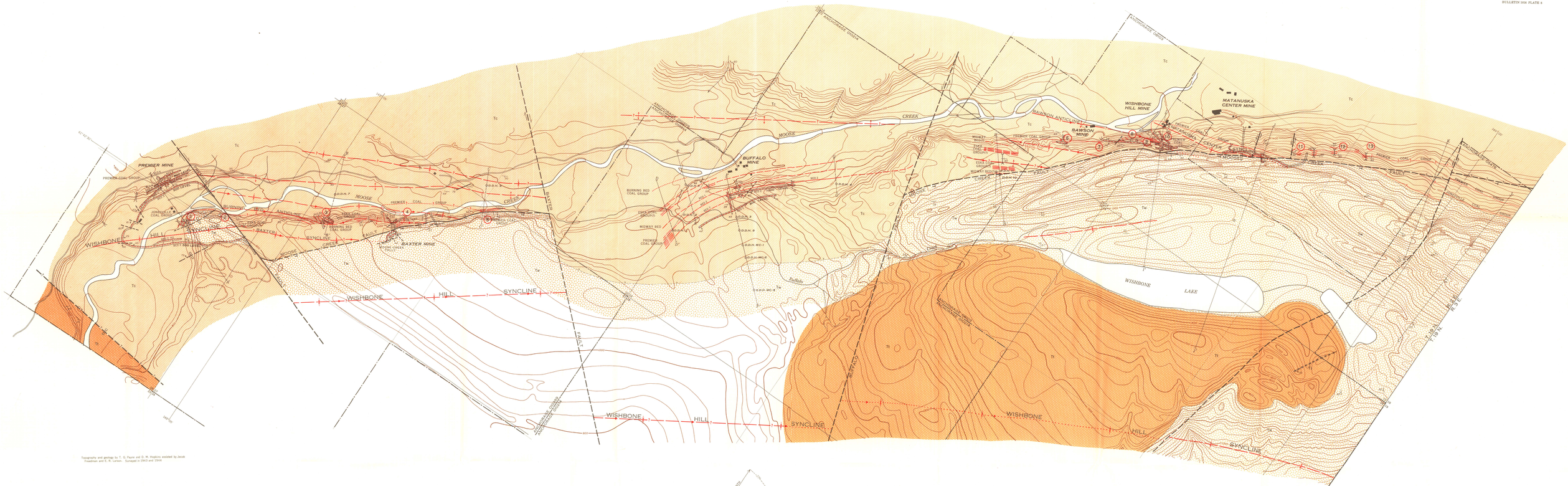

Topography and geology by T. G. Payne and D. M. Hopkins assisted by Jacob Freedman and E. R. Larson. Surveyed in 1943 and 1944

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. W-1121

Mine workings shown are mostly from company mine maps

GEOLOGIC MAP OF NORTHWESTERN PART OF WISHBONE HILL DISTRICT, MATANUSKA COAL FIELD, ALASKA

Scale 1:6000

500 0 2000 Feet

Contour interval 20 feet
Datum is approximate mean sea level

E X P L A N A T I O N

SEDIMENTARY ROCKS

Eocene or younger

Tt — Tsadaka formation
Poorly cemented boulders and cobbles of dominantly granitic rocks

Paleocene or Eocene

Tw — Wishbone formation
Firmly cemented pebbles of fine-grained rocks in sandy matrix. Includes many fossiliferous beds of sandstone, siltstone, and some claystone

Tc — Chickaloon formation
Sandstone, siltstone, claystone, and coal

TERTIARY

Post-Eocene

IGNEOUS ROCKS

Ti — Basaltic dike

TERTIARY

Note: To avoid obscuring details of bedrock geology all surficial deposits are omitted

Coal bed in mine workings, showing dip

Coal bed at bedrock surface
Dashed where inferred

Approximate position of coal group at bedrock surface
Line represents approximate center of group rather than a particular bed. Coal where coal group not fully exposed and individual beds not positively identified

Contact
Dashed where approximately located

Fault, showing dip
Dashed where inferred; U, upthrown side; D, downthrown side

Fault in mine workings, showing dip

Thrust fault
Dashed where inferred, queried where position is uncertain; T, upper plate

Transverse or tear fault
Dashed where inferred, arrows indicate relative direction of horizontal movement

Anticline
Showing trace of axial plane and direction of plunge of axis; dashed where approximately located; dotted where concealed by overlying formation; queried where uncertain

Syncline
Showing trace of axial plane and direction of plunge of axis; dashed where approximately located; dotted where concealed by overlying formation; queried where uncertain

Strike and dip of beds

Strike of vertical beds

Horizontal beds

Strike and dip of overturned beds

Mine portal

Mine dump

Tunnels and gangways

Slopes and airways
Chevrons point downward

Trench

Bedrock
U. S. Bureau of Mines diamond-drill holes

Boundary of coal-bearing unit

Surface coal locality
Numbers correspond to those in text and on plate 1