UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 361
PLATE 2

Base north of 39°45' and east of 112°15' from U. S. Geological Survey topographic maps. Base south of 39°45' and west of 112°00' from F. W. A. Utah Transportation Maps (1941) and aerial photographs

Geology by: H. T. Morris, A. E. Disbrow, T. S. Lovering, P. D. Proctor, and published sources. 1943–57
Geology west of 112°00' and south of 39°45' known only from rapid reconnaissance.

GENERALIZED GEOLOGIC MAP AND SECTION OF THE EAST TINTIC MOUNTAINS, UTAH

SCALE 1:96 000

1 ½ 0 1 2 3 4 5 MILES

EXPLANATION

QUATERNARY

Pleistocene and Recent

Qu — **Unconsolidated deposits**
Alluvium, colluvium, fanglomerate, and lakebeds of Lake Bonneville group and pre-Lake Bonneville valley-fill deposits

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TERTIARY

Pliocene

Tsl — **Salt Lake(?) formation**
Marly limestones and bentonitic tuffs. Overlain by silt probably also of Pliocene age

Td — **Diabase plugs, dikes, and sills**
Age not precisely known, but probably Eocene

Tb — **Basalt flows**
Age not precisely known, but probably Eocene

Ts — **Sedimentary rocks and tuffs**
Age not precisely known, but probably Eocene

Tm — **Monzonite of Silver City stock**

Tbm, Tmd — **Biotite monzonite plugs and monzonite dikes**

Tpd — **Pebble dikes**

Thm — **Hornblende monzonite dikes and plugs**

Tls — **Laguna Springs latite**

Tmps — **Monzonite porphyry of Sunrise Peak stock**

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Eocene

Tli — **Lamprophyre intrusive rocks**

Tqm — **Quartz monzonite of Swansea stock**

Tpf — **Packard quartz latite and Fernow quartz latite**

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Eocene(?)

Ta — **Apex conglomerate**

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PERMIAN

Pppd — **Park City and Phosphoria formations and Diamond Creek(?) sandstone**

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PENNSYLVANIAN AND PERMIAN

PPo — **Oquirrh formation**

PENNSYLVANIAN

PM — **Manning Canyon shale, Great Blue formation, Humbug formation, and Deseret limestone**

MISSISSIPPIAN

Mgf — **Gardison limestone and Fitchville formation**

MO — **Pinyon Peak limestone, Victoria formation, and Bluebell dolomite**

ORDOVICIAN

Ofo — **Fish Haven dolomite and Opohonga limestone (Separated by disconformity)**

CAMBRIAN

Upper Cambrian

Cu — **Ajax dolomite and Opex formation**

Middle Cambrian

Cm — **Cole Canyon dolomite, Bluebird dolomite, Herkimer limestone, Dagmar dolomite, Teutonic limestone, and Ophir formation**

Lower Cambrian

Cl — **Tintic quartzite**

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PRECAMBRIAN

Upper Precambrian

pCbc — **Big Cottonwood formation**

Contact
Dashed where approximately located

Fault
Map — Section
Dashed where approximately located; short dash where inferred. U, upthrown side; D, downthrown side. Arrows show direction of relative movement

Strike-slip fault
Map — Section
Dashed where approximately located. Arrows show relative movement on map. A, relative movement away from observer in section; T, toward observer

Thrust fault
Map — Section
Sawteeth on side of upper plate. Arrow indicates inferred direction of movement of active block

Concealed fault
Arrows show direction of relative movement; queries indicate probable position

Anticline
Showing trace of plane and direction of plunge of axis. Dashed where approximately located

Syncline
Showing trace of plane and direction of plunge of axis. Dashed where approximately located

25 — Strike and dip of beds

75 — Strike and dip of overturned beds

90 — Strike of vertical beds

STRUCTURAL FEATURES

Folds

1. North Tintic anticline
2. Tintic syncline
3. East Tintic anticline

Thrust faults

4. Tintic Humboldt
5. Pinyon Peak
6. Allens Ranch
7. Bradley

High-angle faults

8. Topliff
9. South Essex
10. Stroud
11. Gardison Ridge
12. Tintic Prince
13. Lehi Tintic
14. Paymaster No. 1
15. New Bullion
16. Miners Canyon
17. Fremont
18. Davis Canyon
19. Selma
20. Red Hill
21. Dead Horse
22. Homansville
23. Paxman
24. Gemini
25. Beck
26. Centennial
27. California
28. North Carolina
29. Grand Central
30. Mammoth
31. Sioux-Ajax
32. Yankee
33. Iron King
34. Eureka Lilly
35. Eureka Standard
36. Apex Standard
37. Hansen
38. County Canyon

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