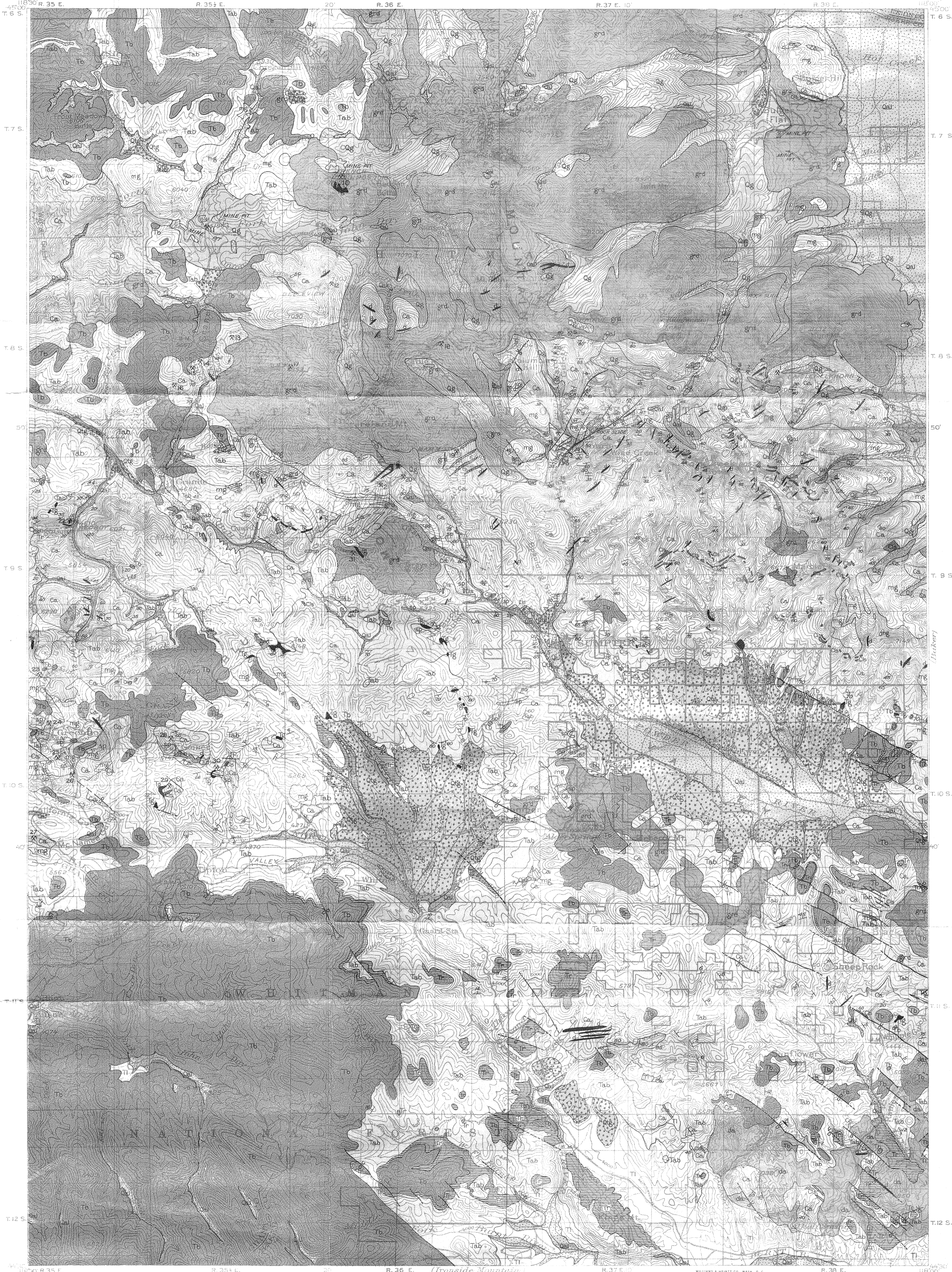


PRELIMINARY GEOLOGIC MAP
OF THE
SUMPTER QUADRANGLE,
OREGON

SURVEYED BY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ISSUED BY
STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES
EARL K. NIXON, DIRECTOR, PORTLAND, OREG.



EXPLANATION

- Alluvium
(Includes glacial outwash and recent stream deposits)
- Glacial drift
- Terrace gravel
- Younger basic lavas
(Includes pyroxene andesite, and andesite porphyries)
- Lake beds
(Volcanic sand and silt, alluvial gravel, glauconitic earths)
- Rhyolite flows and tuffs
- Andesite flows and tuff breccias
- Older gravel
- Limestone
(Largely interbedded with marls)
- Argillite series
(Metamorphosed shale, sandstone, and limestones)
- IGNEOUS ROCKS**
- Dacite
- Granodiorite
(quartz-diorite)
- Dikes
- Serpentine and peridotite
- Metagabbro
- Fault
- Strike and dip of beds
- Vertical bed
- Mine

LIST OF MINES

- Approximate location shown by position of mine symbol and corresponding number
1. Belsley-Elkhorn
 2. Maxwell
 3. Highland
 4. Buckeye
 5. Mountain View
 6. North Pole
 7. E and E
 8. Columbia
 9. Golconda
 10. French Diggins
 11. North Fork
 12. La Bellevue
 13. Buffalo-Monitor
 14. Magnolia
 15. Independence
 16. Cragger
 17. Monumental
 18. Imperial, California and Last Chance
 19. Mammoth and Belle of Baker
 20. Bald Mountain
 21. Ilex
 22. Red Boy
 23. Golden Gate
 24. I X L
 25. Don Juan and Phoenix
 26. Golden Eagle
 27. Listen Lake and Gold Bullion
 28. Bonanza
 29. Paradise
 30. Winterville
 31. Griffith
 32. Weaver
 33. Powder River Dredge

Base by U. S. Department of the Interior,
Geological Survey, 1899-1900.
Revised in part, 1914.



Contour interval 100 feet.
Datum is mean sea level.
(Readjustment indicates that elevations on
this map should be increased 8 feet)
1941

Geology by J. T. Pardee,
D. F. Hewett, T. H. Rosenkrantz,
F. J. Katz, F. C. Calkins.