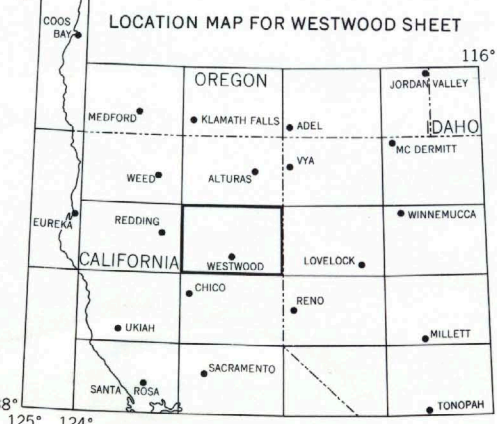


| SEDIMENTARY AND METASEDIMENTARY ROCKS |                | IGNEOUS AND META-IGNEOUS ROCKS |                         |
|---------------------------------------|----------------|--------------------------------|-------------------------|
| Recent                                | Quaternary     | Recent volcanic                | Recent volcanic         |
| Quaternary                            | Pleistocene    | Pleistocene volcanic           | Pleistocene volcanic    |
| Pliocene                              | Pliocene       | Pliocene volcanic              | Pliocene volcanic       |
| Miocene                               | Miocene        | Miocene volcanic               | Miocene volcanic        |
| Oligocene                             | Oligocene      | Oligocene volcanic             | Oligocene volcanic      |
| Eocene                                | Eocene         | Eocene volcanic                | Eocene volcanic         |
| Paleocene                             | Paleocene      | Paleocene volcanic             | Paleocene volcanic      |
| Unconsolidated                        | Unconsolidated | Unconsolidated                 | Unconsolidated          |
| Cretaceous                            | Cretaceous     | Cretaceous volcanic            | Cretaceous volcanic     |
| Jurassic                              | Jurassic       | Jurassic volcanic              | Jurassic volcanic       |
| Triassic                              | Triassic       | Triassic volcanic              | Triassic volcanic       |
| Pre-Cretaceous                        | Pre-Cretaceous | Pre-Cretaceous volcanic        | Pre-Cretaceous volcanic |
| Permian                               | Permian        | Permian volcanic               | Permian volcanic        |
| Carboniferous                         | Carboniferous  | Carboniferous volcanic         | Carboniferous volcanic  |
| Devonian                              | Devonian       | Devonian volcanic              | Devonian volcanic       |
| Silurian                              | Silurian       | Silurian volcanic              | Silurian volcanic       |
| Ordovician                            | Ordovician     | Ordovician volcanic            | Ordovician volcanic     |
| Cambrian                              | Cambrian       | Cambrian volcanic              | Cambrian volcanic       |
| Pre-Cambrian                          | Pre-Cambrian   | Pre-Cambrian volcanic          | Pre-Cambrian volcanic   |

TOPOGRAPHIC BASE MAP  
Prepared by the Army Map Service (KCSX), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1956 by photogrammetric methods and from United States Quadrangles, 1:62,500, USGS, 1953; United States Quadrangles, 1:125,000, USGS, Bureau of Mineral, 1935; Halls Flat, 1933. Planimetric detail revised by photogrammetric methods. Horizontal and vertical control by US&GS, USGS and CE. Photography field annotated 1954-55. Land net prepared by the U. S. Geological Survey, 1960. Corrections and additions to culture by Division of Mines, 1960.

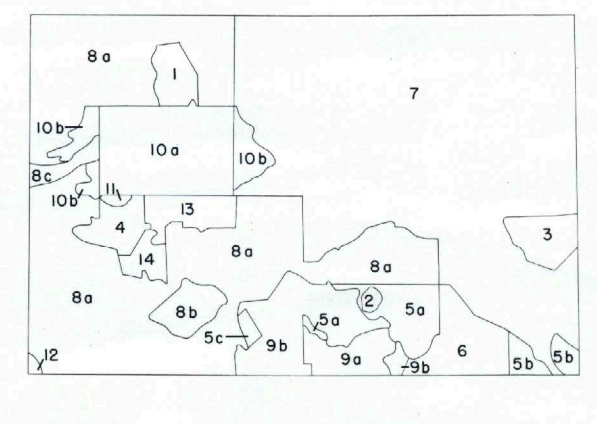
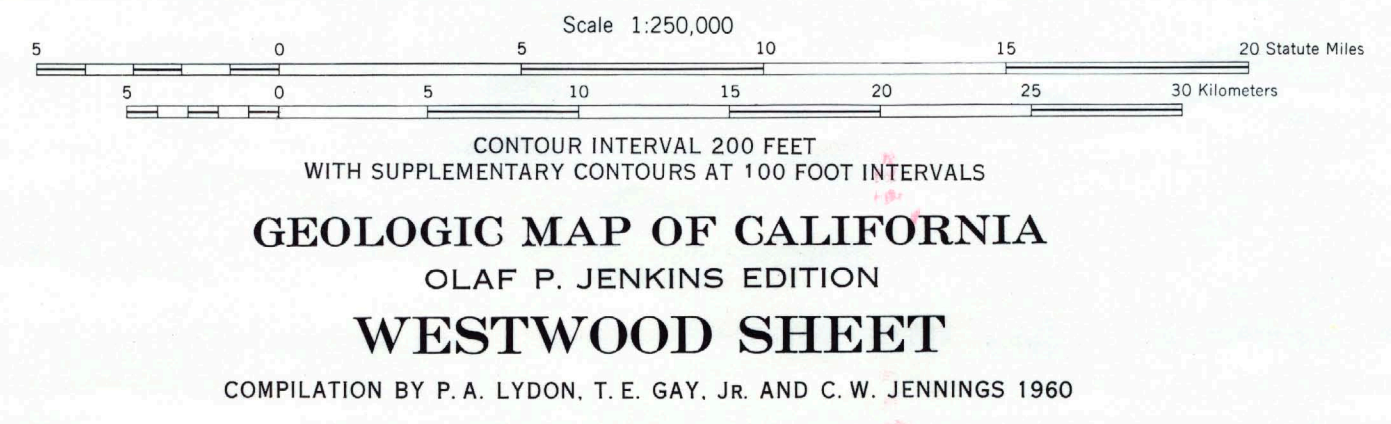


Scale 1:250,000  
CONTOUR INTERVAL 200 FEET  
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

--- Contact  
Dashed where approximately located, gradational or inferred

--- Fault  
Dashed where approximately located, dotted where concealed

--- Thrust fault  
Barbs on upper plate; dashed where approximately located, dotted where concealed



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- Curtis, G. H., unpublished
- Diller, J. S., 1908
- Diller, J. S., 1908
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- Durrell, C., unpublished
- Gay, T. E., Jr., unpublished
- Lydon, P. A., unpublished
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- Macdonald, G. A., unpublished
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- Olmsted, F. H. and Davis, G. H., unpublished
- Williams, H., 1932
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HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET