

EXPLANATION

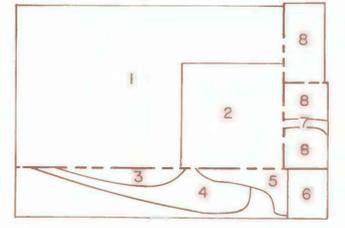
CORRELATION OF MAP UNITS

- | | |
|---------------|----------------|
| Qs | } QUATERNARY |
| To | |
| Unconformity | } MIOCENE |
| Ta | |
| Disconformity | } TERTIARY |
| Twr | |
| Unconformity | } OLIGOCENE |
| pTr | |
| | } PRE-TERTIARY |

DESCRIPTION OF MAP UNITS

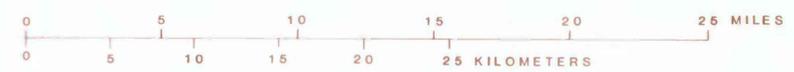
- Qs QUATERNARY SEDIMENTS--Fine sand, silt, and clay containing lenses of gravel
- To OGALLALA FORMATION--Heterogeneous deposits of silt, sand, and gravel; may be unconsolidated or well cemented
- Unconformity
- Ta ARIKAREE FORMATION--Light-gray sandstone, very fine grained to fine-grained, loosely to well cemented; contains beds of silt. Coarse conglomerate occurs at base in some areas
- Disconformity
- Twr WHITE RIVER FORMATION--Pinkish-brown siltstone containing red and green clays in lower part; locally contains coarse channel deposits
- Unconformity
- pTr PRE-TERTIARY ROCKS--Chiefly sandstone, limestone, shale, granite, and metasedimentary rocks
- CONTACT--Dashed where approximately located
- THRUST FAULT--T is on overriding block
- 4500 STRUCTURE CONTOUR--Shows altitude of top of pre-Tertiary formations. Dashed where inferred. Contour interval 100 feet. Datum is National Geodetic Vertical Datum of 1929
- BOUNDARY OF MODELED AREA
- TEST HOLE OR WELL

GEOLOGIC SOURCE MAP



- | | |
|-----------------------------|----------------------------|
| 1. Lowry and Crist, 1967 | 5. Cooley and Crist, 1980 |
| 2. Crist and Borchert, 1972 | 6. Scott, 1980 |
| 3. Tweto, 1976 | 7. Bjorklund, 1957 |
| 4. Weist, 1965 | 8. Smith and Sanders, 1975 |

Base from U.S. Geological Survey Cheyenne, 1954, Greeley, 1954, Scottsbluff, 1954, and Sterling, 1954; 1:250,000 quadrangles



MAP SHOWING GEOLOGY AND STRUCTURE CONTOURS ON TOP OF PRE-TERTIARY ROCKS, LARAMIE COUNTY, WYOMING, AND ADJACENT PARTS OF COLORADO AND NEBRASKA.