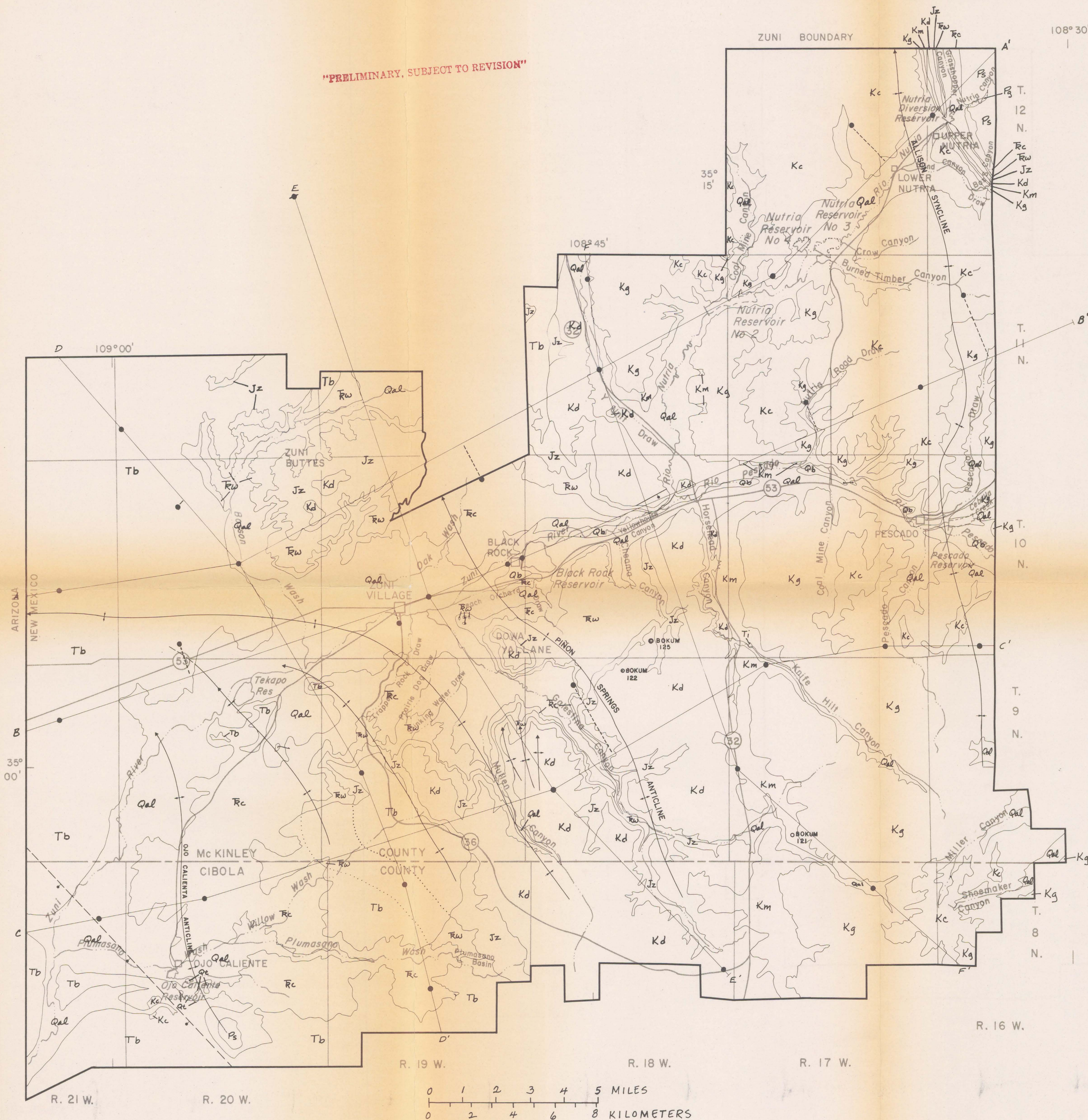


"PRELIMINARY, SUBJECT TO REVISION"



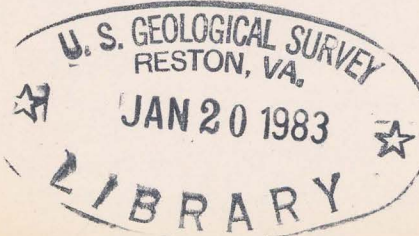
EXPLANATION

- |            |       |  |
|------------|-------|--|
| QUATERNARY | [Qal] | ALLUVIUM - As much as 200 feet of fluvial sand, gravel, and clay.  |
|            | [Qt]  | TRAVERTINE - Associated with areas of spring discharge.  |
|            | [Kb]  | BASALT - A series of flows that moved westward along the Rio Pescado.  |
| TERTIARY   | [Ti]  | INTRUSIVE ROCK.  |
|            | [Tb]  | BIDAHOCHI FORMATION - As much as 650 feet of loosely consolidated sands and gravels of Miocene and Pliocene age.   |
| CRETACEOUS | [Kc]  | CREVASSE CANYON FORMATION - As much as 500 feet of shale interbedded with lenticular sandstone and coal. Includes rocks of the Dilco Coal Member and the Bartlett Barren Member.   |
|            | [Kg]  | GALLUP SANDSTONE - The lower unit, as much as 200 feet of interbedded sandstone, shale, and thin coal seams, and intervening tongues of the Mancos Shale, and the upper unit, as much as 200 feet of pink sandstone with interbedded carbonaceous shale and thin coal seams. |
|            | [Km]  | MANCOS SHALE - Consists of 300 to 400 feet of dark, fissile, marine shales; intertongues with overlying and underlying rock units.   |
|            | [Kd]  | DAKOTA SANDSTONE - As much as 150 feet of fine-to-medium-grained sandstone interbedded with shale.   |
| JURASSIC   | [Jz]  | ZUNI SANDSTONE - As much as 500 feet of fine-to-coarse-grained, massive, cross-bedded sandstone.   |
|            | [Rw]  | WINGATE SANDSTONE - Approximately 150 feet of reddish-brown siltstone and fine-grained sandstone.  |
| TRIASSIC   | [Rc]  | CHINLE FORMATION - Includes the Monitor Butte Member and the Petrified Forest Member, consisting of the lower part, Sonsela Sandstone Bed, and upper part. As much as 1,300 feet of red, brown, and purple shale interbedded with thin lenticular sandstone.                 |
|            | [Ps]  | SAN ANDRES LIMESTONE - Approximately 100 feet of gray, fossiliferous limestone.  |
| PERMIAN    | [Pg]  | GLORIETA SANDSTONE - Approximately 200 feet of buff to white, medium-grained, well-cemented sandstone.   |

- ..... CONTACT - Dotted where concealed.
- ↑ ANTICLINAL AXIS - Larger arrow denotes direction of plunge.
- ↓ SYNCLINAL AXIS - Larger arrow denotes direction of plunge.
- FAULT - Ball on downthrown side. Dashed where approximately located.
- WELL - Dashed line indicates well is projected to section.
- Bokum 122 MINERAL EXPLORATION HOLE IN WHICH FRACTURED ROCK WAS PENETRATED
- A A' LINE OF GEOLOGIC SECTION (See plate 2)

"PRELIMINARY, SUBJECT TO REVISION"

Plate 1.--Geologic map of Zuni Tribal lands, McKinley and Cibola Counties, New Mexico.



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