

EXPLANATION

- Flood-plain alluvium
Includes areas mapped as alluvium by the South Dakota Geological Survey
- Terrace alluvium
Not differentiated from flood-plain alluvium in southern Washington and northern Bennett Counties
- Windblown sand deposits
Mapped only where aerial estimates or water bearing
- Old terrace deposits
Mapped only where aerial estimates or water bearing
- Ogallala Formation
Shown only where mapped by the South Dakota Geological Survey or described in other published reports. Probably present over large areas in eastern Shannon, northern Bennett, and southeastern Washington Counties
- Arkosian Formation
See table 1 for division into units A, B, C, D, and E
- White River Group
Includes Brule and Chadron Formations
- Pierre Shale
- Niobrara Formation
- Carlisle Shale
- Contact

* The Sharps Formation is the basal unit of a sequence of rocks mapped here as the Arkosian Formation. This sequence has been subdivided into several formations by other workers.

1050 ZEOLITE SAMPLE LOCALITY—Large numerals are locality numbers of the four sample localities for which detailed diagrams appear in figure 1 of the text. Small numerals are locality numbers of samples for which gas-adsorption and ion-exchange data appear in table 1. No number indicates X-ray diffraction analysis only.

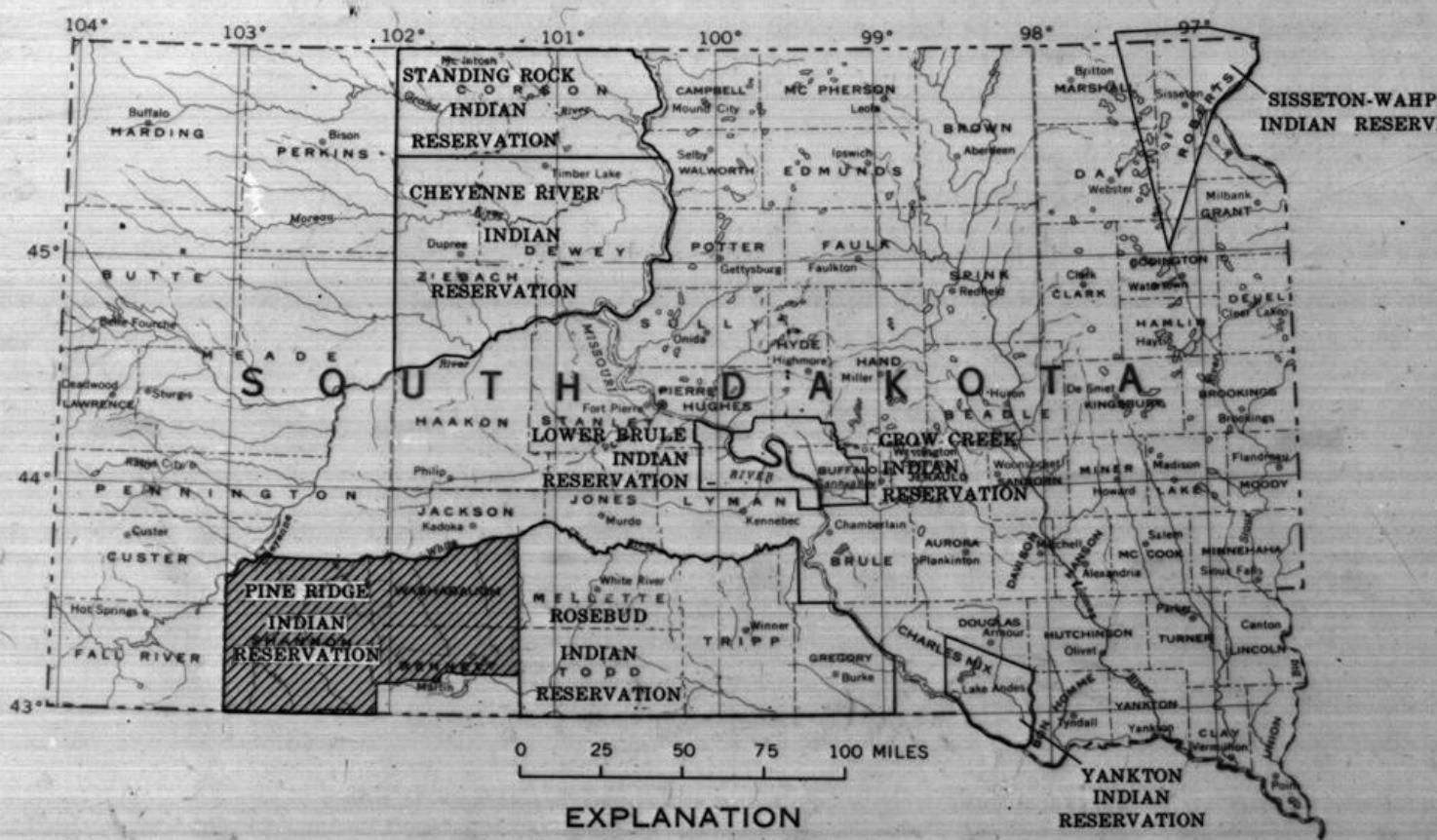
BASE DIAGRAM NEAR APPROPRIATE SYMBOL—Vertical line indicates the interval through which samples were taken (usually at one meter intervals); one millimeter equals one meter. Horizontal baseline indicates the whole rock (100%)—horizontal bar graphs indicate percentages of the whole rock that is estimated to be zeolite on the basis of X-ray diffraction response. Where zero values appear regularly between base indicating substantial zeolite content, sample intervals are more than one meter, e.g., localities 101 and 102.

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

SECTIONED TOWNSHIP

SCALE 1:125,000
0 2 4 6 8 10 MILES
0 2 4 6 8 10 KILOMETERS

CONTOUR INTERVAL 100 FEET EAST OF 102° WITH SUPPLEMENTARY CONTOURS AT 50-FOOT INTERVALS
CONTOUR INTERVAL 200 FEET WEST OF 102° WITH SUPPLEMENTARY CONTOURS AT 100-FOOT INTERVALS
DATUM IS MEAN SEA LEVEL



INDEX MAP SHOWING ORIGINAL EXTENT OF INDIAN RESERVATIONS IN SOUTH DAKOTA AND THE AREA DESCRIBED IN THIS REPORT

PLATE 1—GEOLOGIC AND SAMPLE LOCALITY MAP OF THE PINE RIDGE INDIAN RESERVATION, SOUTH DAKOTA