DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE REPORT 79-712
PLATE 1

BEDROCK GEOLOGY OF THE BUFFALO - LAKE DE SMET AREA JOHNSON COUNTY, WYOMING

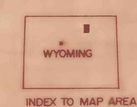
BY
S. L. OBERNYER

1979

SCALE 1:50,000

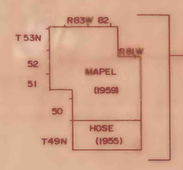
MILES 0 1 2

Km 0 1 2 3



INDEX TO MAP AREA

Pre - Tertiary geology has been compiled from:



KANEAL, OBERNYER AND CATTERMOLE (1978)

Tertiary geology is based on field work and air photograph interpretation.

EXPLANATION

Contact - Dashed where approximately located, questioned where location is uncertain.

Coal bed outcrop: Dashed where approximately located, barbed where coal has burned. W = Walters bed; H = Healy bed.

Normal or reverse fault: Dashed where approximately located, questioned where location is uncertain. U, upthrown side; D, downthrown side.

Strike - slip fault (tear fault): Dashed where approximately located. Arrows show direction of relative movement.

Anticline: Direction of plunge indicated.

Syncline: Direction of plunge indicated.

70 Strike and dip of beds.

80 Strike and dips of overturned beds.

6 Apparent strike and dip of beds.

CENOZOIC — TERTIARY
- OLIGOCENE — Twr — WHITE RIVER FORMATION
- EOCENE — Twm / Tw / Twk — WASATCH FORMATION:
  - Twm = Moncrief Member
  - Twk = Kingsbury Conglomerate
- PALEOCENE — Tfuc / Tfu — FORT UNION FORMATION:
  - Tfuc + Tfuc? = conglomerate member
  - Tfu = lower member

MESOZOIC — Mz — Mesozoic units undivided

PALEOZOIC — Pz — Paleozoic units undivided

PRECAMBRIAN — pC — Precambrian units