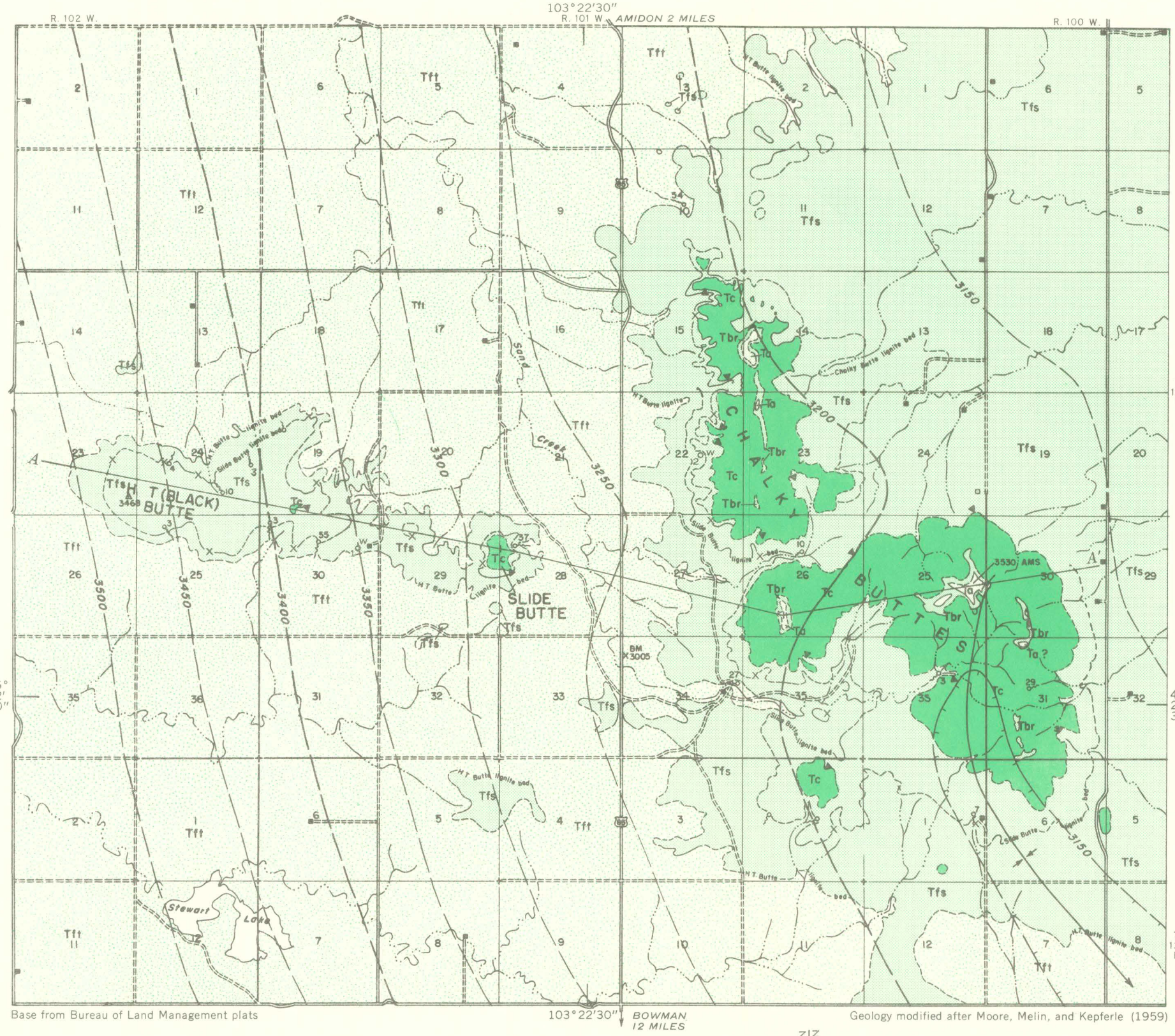


Base from Bureau of Land Management plats

Geology modified after Moore, Melin, and Kepferle (1959)

EXPLANATION

TERTIARY

Miocene

Ta — Arikaree Formation
Tuffaceous siltstone, sandstone, and conglomerate

Oligocene

Tbr — Brule Formation
Tuffaceous claystone and siltstone

Tc — Chadron Formation
Bentonitic claystone, impure limestone, sandstone, and conglomerate

Paleocene

Tfs / Tft — Fort Union Formation
Sandstone, shale, and lignite. Radioactive lignite in Sentinel Butte Member.
Tfs, *Sentinel Butte Member.*
Tft, *Tongue River Member*

Contact
Dashed where approximately located

Lignite bed or carbonaceous shale
Dashed where approximately located. Radioactive lignite sample locality, ×

3300
Contours
Showing altitude of base of Oligocene rocks. Dashed where restored. Interval 150 feet. Datum is mean sea level. Vertical control by single base altimetry

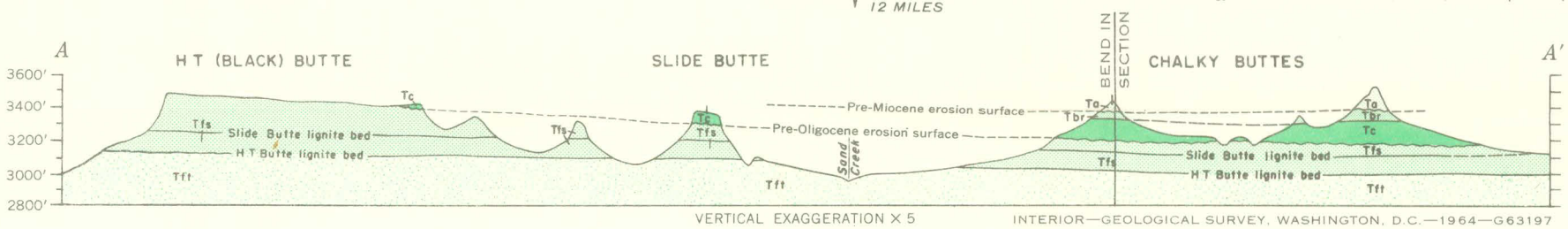
Altitude control point

3468
US Coast and Geodetic Survey triangulation station, elevation in feet

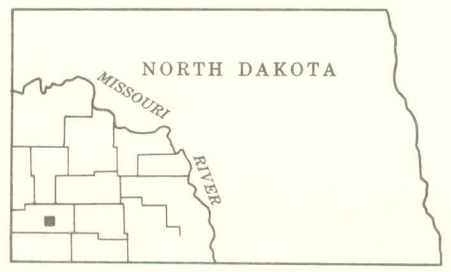
3530 AMS
Army Map Service elevation, in feet

Syncline
Showing axis and direction of plunge

0.7 Spring — 10 W Water well
Number is uranium content, in parts per billion



VERTICAL EXAGGERATION X 5



MAPPED AREA

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964—G63197

GEOLOGIC MAP AND SECTION OF THE CHALKY BUTTES AREA, SLOPE COUNTY, NORTH DAKOTA

SCALE 1:63 360

1 ½ 0 1 2 3 4 5 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

DATUM IS MEAN SEA LEVEL