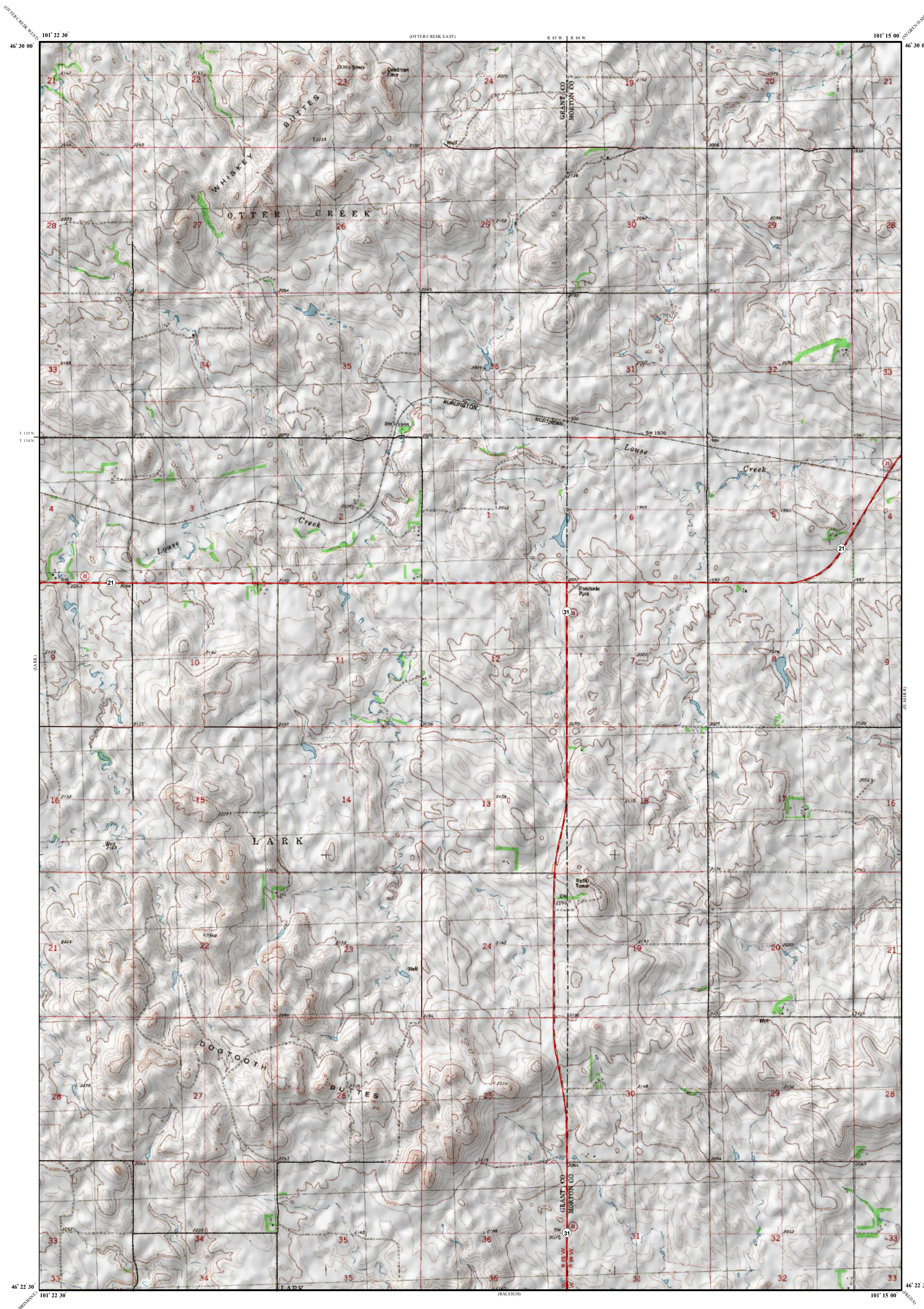


# Lignite Reserves

## Dogtooth Buttes Quadrangle, North Dakota

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2019



### UNIT DESCRIPTIONS

**GU** Geology Undifferentiated

**I** Economic Coal Deposits

Economic coal deposits are those that meet the minimum criteria established by coal companies operating surface mines in North Dakota. These economic criteria include a minimum cumulative coal thickness of ten feet-typically occurring in less than two beds, a minimum individual bed thickness of at least 2.5 feet, a ratio of overburden to coal thickness of not more than 10:1, a minimum of 25 feet of overburden, and a maximum depth to coal of approximately 150 feet.

### Geologic Symbols

— Extent of Local Lignite Reserves

● Data Points  
Includes coal exploration NDGS/USGS drill holes, sub-surface mineral drill holes, oil & gas wells, and NDSWC drill holes.

4768 ● Drill Hole Numbers

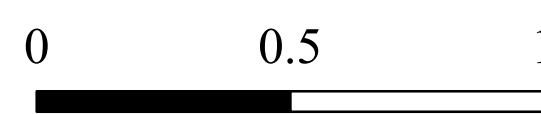
### Other Features

— State Highway

— Paved Road

--- Unpaved Road

Scale 1:24,000



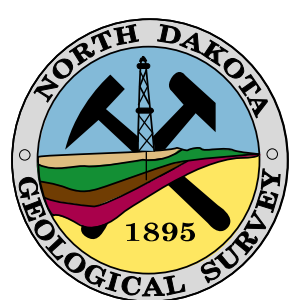
Miles

Lambert Conformal Conic Projection Standard Parallels 46° 22' 30" and 46° 30' 00"  
1927 North American Datum NGVD 1929  
USGS 7.5 Minute Topographic Map - Contour Interval 20 Feet

10° 30'

MN

1980 Magnetic North  
Declination at Center of Sheet



Dogtooth Buttes Quadrangle, North Dakota