

Lignite Reserves

Lake Helen Quadrangle, North Dakota

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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.

Drill Hole Numbers

Other Features

State Highway

Paved Road

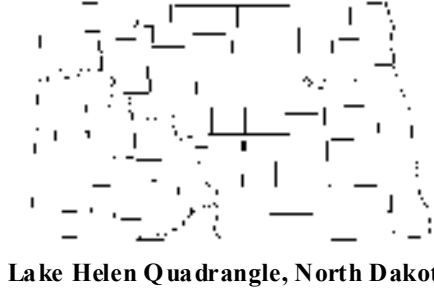
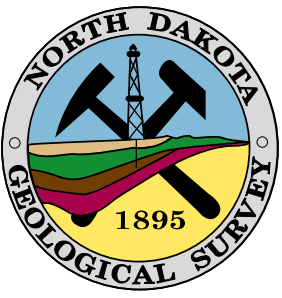
Unpaved Road

Scale 1:24,000

0 0.5 1
Miles

Lambert Conformal Conic Projection Standard Parallels 47° 07' 30" and 47° 15' 00"
1927 North American Datum NGVD 1929
USGS 7.5 Minute Topographic Map - Contour Interval 10 Feet

10° 30'
MN
1979 Magnetic North
Declination at Center of Sheet



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