




Lignite Reserves

New Salem Quadrangle, North Dakota

Edward C. Murphy





2004

UNIT DESCRIPTIONS





-  Geology Undifferentiated
-  Area of Mined Coal
-  Economic Coal Deposits

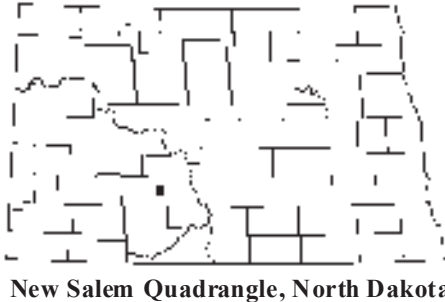
Economic coal deposits are those that meet the minimum criteria established by coal companies operating surface mines in North Dakota. These economic criteria include a minimum cumulative coal thickness of ten feet-typically occurring in less than two beds, a minimum individual bed thickness of at least 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

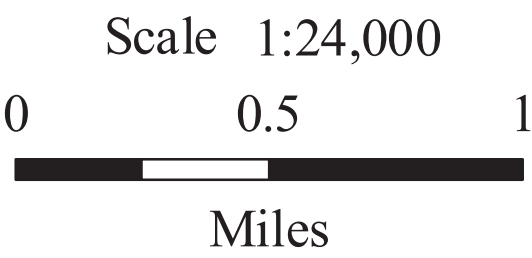
-  Extent of Local Lignite Reserves
 -  Data Points
Includes Coal Exploration NDGS/USGS drill holes, Sub-surface Mineral drill holes, Oil & Gas drill holes, and NDSWC drill holes.
 -  Drill Hole Numbers
 -  Thickness (in feet) of Mineable Lignite
- Coal thicknesses were determined by interpretation of electric logs from individual drill holes. Gamma and density logs were typically available for coal exploration holes but, oil wells were often limited to a gamma log run through surface casing.

Other Features

-  Interstate Highway
-  State Highway
-  Paved Road
-  Unpaved Road



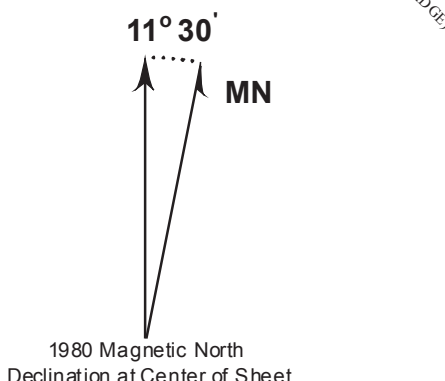
New Salem Quadrangle, North Dakota



Scale 1:24,000

Miles

Lambert Conformal Conic Projection
1927 North American Datum
Standard Parallels 46° 45' 00" and 46° 52' 30"



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