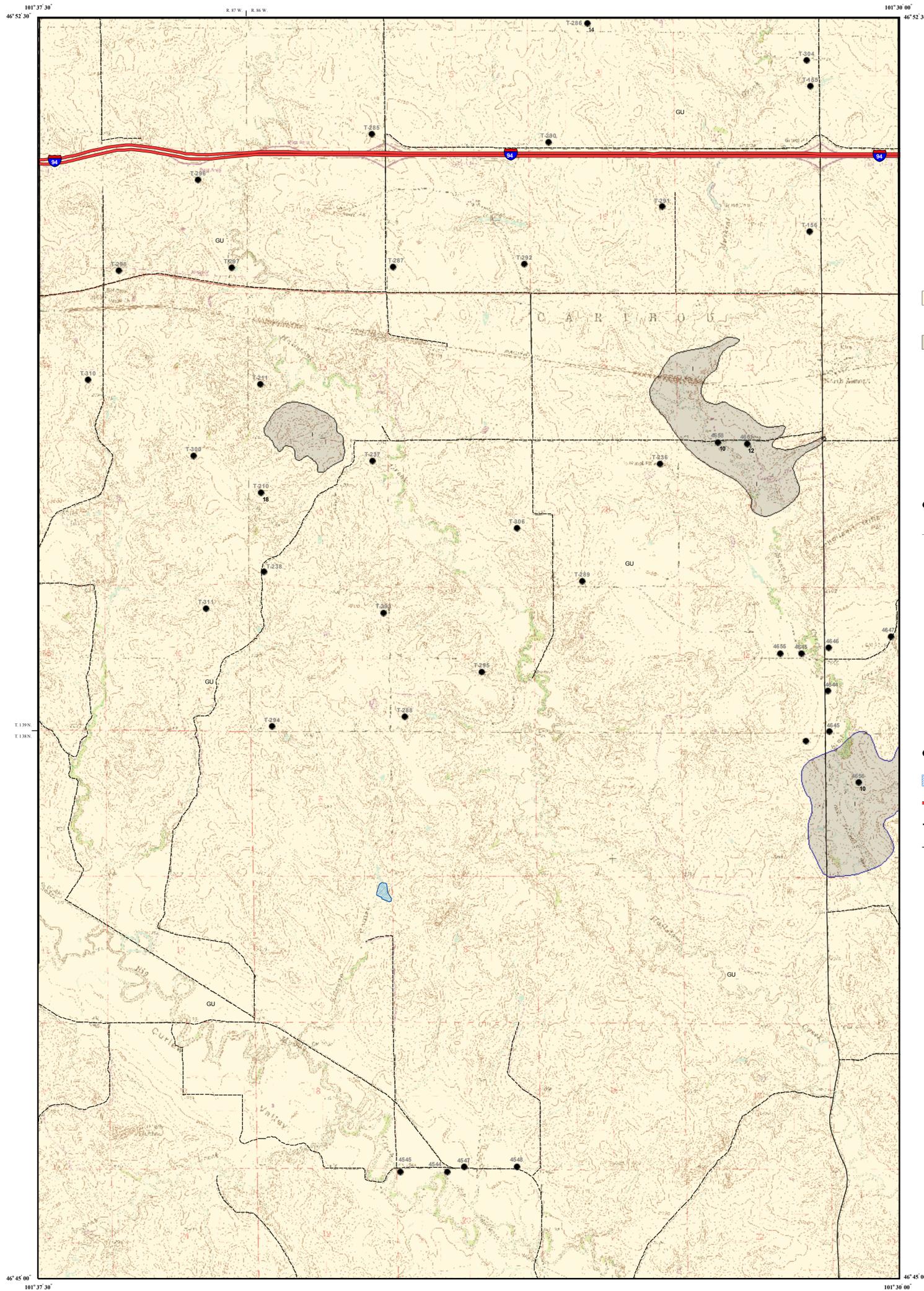


Lignite Reserves

North Almont Quadrangle, North Dakota

Edward C. Murphy
2004



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 drill holes, and NDSWC drill holes.

T-207 ● 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.

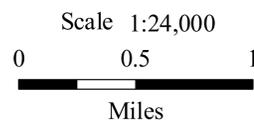
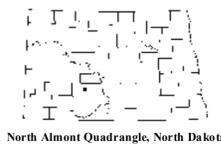
Other Features

Water - Intermittent

Interstate Highway

Paved Road

Unpaved Road



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

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