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# NEW PUBLICATIONS



## **Areas of Landslides in the Williston 100K Sheet, North Dakota (100KW1st-I)** by Edward C. Murphy

A total of 1,698 landslides were mapped within the Williston 100K sheet. All but a few of these landslides occur in the southern portion of the sheet, within the Missouri River Valley and associated badlands topography. Most slides are 10 acres or less in size, but landslide complexes can occupy up to 80 acres. The Williston sheet is the most recent of five landslide sheets (Parshall, Watford City, Stanley, and Killdeer) to be published by our agency.

Murphy, E.C., 2004, Areas of Landslides, Watford City, North

Dakota Sheet: North Dakota Geological Survey, 100K WfdC-I, 1:100,000 scale. Price: \$5.00

Murphy, E.C., 2004, Areas of Landslides, Williston, North Dakota Sheet: North Dakota Geological Survey, 100K Wil-I, 1:100,000 scale. Price: \$5.00

Anderson, F.J., 2004, Landslide Map of the Valley City West quadrangle: Preliminary Inventory Map, Valley City, Barnes County, North Dakota: North Dakota Geological Survey Map 24K: VlyC W-I. Price: \$5.00

Anderson, F.J., 2004, Landslide Map of the Valley City East quadrangle: Preliminary Inventory Map, Valley City, Barnes County, North Dakota: North Dakota Geological Survey Map 24K: VlyC E-I. Price: \$5.00

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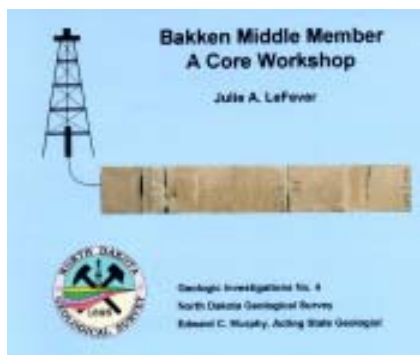
## **Geology of the Bismarck – Mandan Area (Geological Investigation No. 3)** by Edward C. Murphy and Gerald H. Groenewold

This poster is the first of six (Jamestown, Dickinson, Devils Lake, Fargo, and Grand Forks) urban areas to be completed. The geology was draped over a shaded relief background with accompanying cross sections to demonstrate the relationship between topography and geology. Photographs of the major geologic units are depicted, along with lithologic descriptions, to make it easier for people to identify these rock units in the field. The right side of this poster focuses on geologic hazards but several of the other posters utilize this space to highlight mineral resources within the urban areas.

Manz, L.A., and Biek, R.F., 2004, Geology of the Jamestown area: North Dakota Geological Survey Geological Investigations No. 5, poster. Price: \$5.00

Murphy E.C., and Groenewold, G.H., 2004, Geology of the Bismarck-Mandan area: North Dakota Geological Survey Geological Investigations No. 3, poster. Price: \$5.00

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## **Bakken Middle Member Core Workshop CD (Geologic Investigations No. 4)** by Julie LeFever

This CD contains course notes, illustrations, well logs, and well information for the Bakken Middle Member Core workshop held recently in Denver (see *Meetings, Conferences and Workshops, this Newsletter*).

Geologic Investigations No. 4 is available from the North Dakota Geological Survey for \$5.00.



**Lignite Reserves Dunn Center Quadrangle, North Dakota (24K DnnC-c) by Edward C. Murphy**

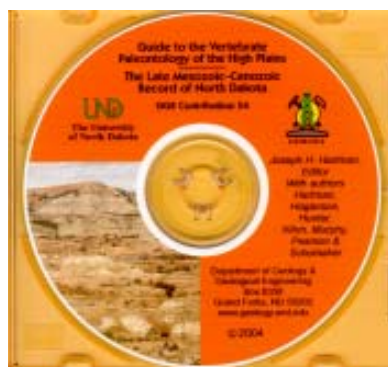
This is one of four coal quads that were recently published by the North Dakota Geological Survey. The map outlines the economically mineable lignite deposits within the Dunn Center quadrangle. Data was obtained from various drillholes (coal exploration holes, oil wells, and water wells) illustrated as black dots. Cumulative, mineable coal thicknesses are indicated on each drillhole. We have completed mapping approximately 600 quads within the 21 coal-bearing counties in North Dakota. These quads are in our GIS section awaiting publication.

Murphy, E.C., Lignite reserves, Dunn Center quadrangle, North Dakota: North Dakota Geological Survey 24K DnnC-c, 1:24,000 scale. Price: \$5.00

Murphy, E.C., Lignite reserves, Manning SE quadrangle, North Dakota: North Dakota Geological Survey 24K Mnng SE-c, 1:24,000 scale. Price: \$5.00

Murphy, E.C., Lignite reserves, North Almont quadrangle, North Dakota: North Dakota Geological Survey 24K NAlm-c, 1:24,000 scale. Price: \$5.00

Murphy, E.C., Lignite reserves, New Salem quadrangle, North Dakota: North Dakota Geological Survey 24K NwSl-c, 1:24,000 scale. Price: \$5.00



**UND Department of Geology and Geological Engineering Publishes CD: Guide to the Vertebrate Paleontology of the High Plains-The Late Mesozoic-Cenozoic Record of North Dakota.**

In 2003, a 3-day-long Society of Vertebrate Paleontology field trip visited many important fossil sites in North Dakota (see NDGS Newsletter, Winter 2003-04, v. 30, no.2, p 9-15). This field trip was held in conjunction with the annual SVP meeting held in St. Paul, MN. Joseph Hartman, UND Department of Geology and Geological Engineering, was the trip leader and John Hoganson (NDGS), Alan Kihm (Minot State University), Dean Pearson (Pioneer Trails Regional Museum, Bowman), and John Hunter (New York Institute of Technology, Old Westbury) were co-leaders. Student facilitators and presenters were Karew Schumaker (Minot State University) and

Georgia Knauss (University of Iowa). There were 27 participants from five countries and ten states. A CD of articles written about the paleontological sites visited during the trip has been published by the UND Department of Geology and Geological Engineering, Contribution 54, edited by Joseph Hartman. Price: \$10.00 They can be purchased by contacting:

Department of Geology and Geological Engineering  
University of North Dakota, Box 8358  
Grand Forks, North Dakota 58202  
(701) 777-2811, ggemail@pterosaur.und.edu

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- Fischer, D.W., LeFever, J.A., LeFever, R.D., Helms, L.D., Sorenson, J.A., Smith, S.A., and Peck, W.D., 2004, Overview of Williston Basin geology as it relates to CO<sub>2</sub> sequestration: 1<sup>st</sup> phase final report, Plains CO<sub>2</sub> Reduction Partnership, U.S. Department of Energy, 27p.
- Fischer, D.W., LeFever, J.A., LeFever, R.D., Helms, L.D., Sorenson, J.A., Smith, S.A., Steadman, E.N. and Harju, J.A., 2004, Mission Canyon Formation outline: 1<sup>st</sup> phase final report, Plains CO<sub>2</sub> Reduction Partnership, U.S. Department of Energy, 22 p.
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- Fischer, D.W., Smith, S.A., Peck, W.D., LeFever, J.A., LeFever, R.D., Helms, L.D., and Sorensen, J.A., 2004, Sequestration potential of the Madison of the northern Great Plains aquifer system (Madison geological sequestration unit): 1<sup>st</sup> phase final report, Plains CO<sub>2</sub> Reduction Partnership, U.S. Department of Energy, 19 p.
- Haidl, F.M., Whittaker, S.G., Yurkowski, M., Kreis, L.K., Gilboy, C.F., and Burke, R.B., 2004, The importance of regional mapping in CO<sub>2</sub> storage site characterization: examples from the IEA Weyburn CO<sub>2</sub> Monitoring and Storage Project, in Proceedings Greenhouse Gas Technology Conference - 7, Papers, p. 127.
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- Nelms R.L., and Burke, R.B., 2004, Evaluation of oil reservoir characteristics to assess North Dakota carbon dioxide miscible flooding potential. 12<sup>th</sup> Williston Basin Horizontal Well and Petroleum Conference, May 2-4, Minot, North Dakota, p. G1-G11.
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