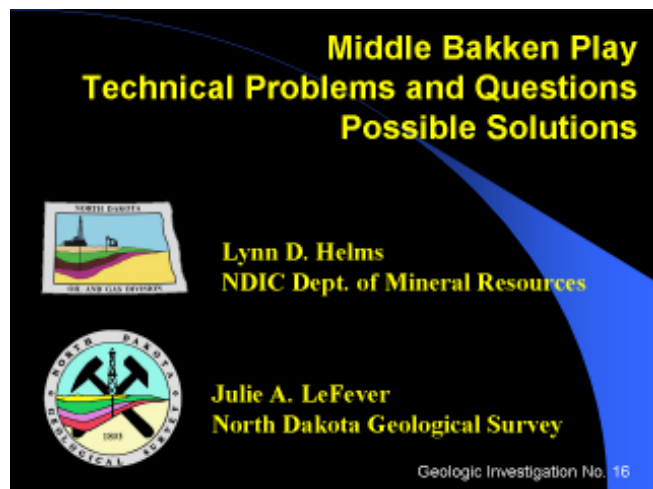


NEW PUBLICATIONS



Geologic Investigations

LeFever, J.A., 2005, Hydrocarbon Potential of the Bakken Formation, North Dakota *presented at the 13th Williston Basin Petroleum Conference*: North Dakota Geological Survey Geologic Investigations No. 15. A PowerPoint presentation that is available only on line (www.state.nd.us/ndgs/Bakken). Price: No charge.



Helms, L.D. and LeFever, J.A., 2005, Middle Bakken Play – Technical Problems and Questions – Possible Solutions: North Dakota Geological Survey Geologic Investigations No. 16.

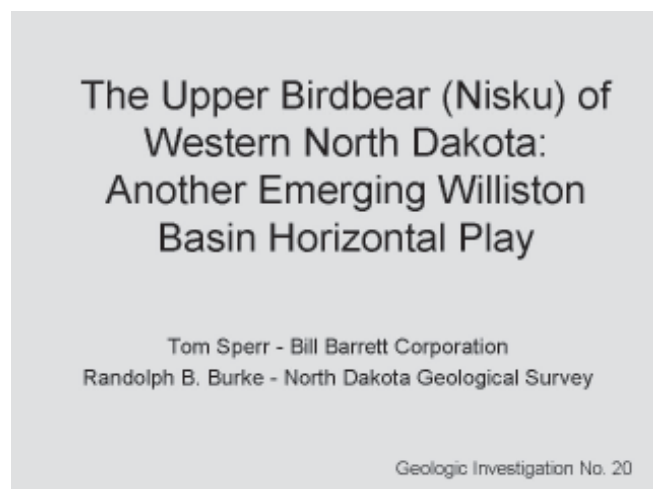
A PowerPoint presentation given at the Annual Meeting of the North Dakota Petroleum Council, only available on line (www.state.nd.us/ndgs/Bakken). Price: No charge.

LeFever, J.A., 2005, Overview of Bakken Stratigraphy in North Dakota and a “Mini” Workshop Handout: North Dakota Geological Survey Geologic Investigations No. 17, 10 slides. Only available on line (www.state.nd.us/ndgs/Bakken). Price: No charge.

LeFever, J.A., 2005, Horizontal Drilling Potential of the Middle Member Bakken: *PowerPoint presentation from the AAPG Rocky Mountain Sectional Meeting*: North Dakota Geological Survey Geologic Investigations No. 18, 27 slides. Only available on line (www.state.nd.us/ndgs/Bakken). Price: No charge.

LeFever, J.A., 2005, Overview of Bakken Stratigraphy in North Dakota and a “Mini” Workshop: *handout for the PTTC Core Workshop presented at the AAPG Rocky Mountain Sectional Meeting*: North Dakota Geological Survey Geologic Investigations No. 19, 33 slides. Only available on line (www.state.nd.us/ndgs/Bakken). Price: No charge.

Sperr, Tom and Burke, R.B., 2005, The Upper Birdbear (Nisku) of Western North Dakota: Another Emerging Williston Basin Oil Play: *PowerPoint presentation from the AAPG Rocky Mountain Sectional Meeting*: North Dakota Geological Survey Geologic Investigations No. 20.



The Birdbear Formation play is particularly appealing at this time because indications are that it may extend over a 300 square mile area of western North Dakota and potentially have reserves of over 45 million barrels of oil. The play is somewhat unique in that production is from a very thin pay zone, generally about two feet in thickness, yet one well has averaged over two thousand barrels of oil a month for over forty-five months of its life. The presentation illustrates the extent of the play, shows Birdbear producing wells, the structure and thickness of selected units in the play area, log cross-sections, core and thin-section photographs to show characteristics of the pay zone and the seal, and provides some of the reservoir characteristics necessary to address some economic questions. 27 slides. Only available on line (www.state.nd.us/ndgs/Bakken). Price: No charge.

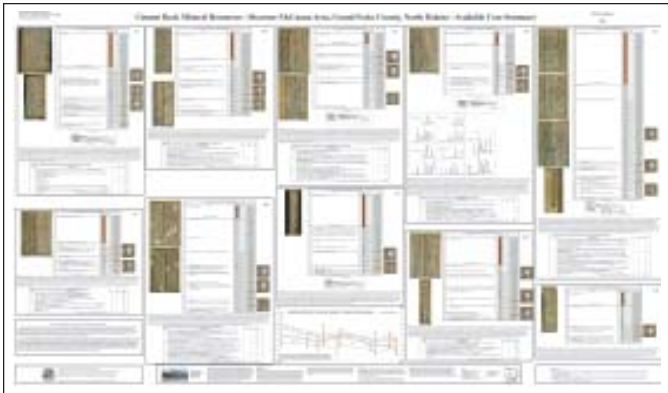
Nelms, Ralph and Burke, R.B., 2004, Evaluation of Oil Reservoir Characteristics to Assess ND Carbon Dioxide Miscible Flooding Potential: *PowerPoint presentation given at the 12th Williston Basin Petroleum Conference*: North Dakota Geological Survey Geologic Investigations No. 21, 25 slides. Only available on line (www.state.nd.us/ndgs/Bakken). Price: No charge.

Anderson, F.J., 2005, Cement Rock Mineral Resources of the Shawnee-McCanna Area, North Dakota, Surficial Geologic Map, 1:24,000, North Dakota Geological Survey Geologic Investigations No. 22A. Price: \$5.00

Anderson, F.J., 2005, Cement Rock Mineral Resources of the Shawnee-McCanna Area, North Dakota, Bedrock Geologic Map, 1:24,000, North Dakota Geological Survey Geologic Investigations No. 22B. Price: \$5.00

Anderson, F.J., 2005, Cement Rock Mineral Resources of the Shawnee-McCanna Area, North Dakota, Mineral Extraction and Planning Map, 1:24,000, North Dakota Geological Survey Geologic Investigations No. 22C. Price: \$5.00

Anderson, F.J., 2005, Cement Rock Mineral Resources of the Shawnee-McCanna Area, North Dakota, Available Core Summary, North Dakota Geological Survey Geologic Investigations No. 22D.



Geologic Investigations series, No. 22D, (poster sized sheet) consists of an available core summary with lithologic, paleontologic, and geochemical data displayed from geologic core collected as a part of previous investigations of the Niobrara Formation in northeastern North Dakota for use as a cement rock. Niobrara Formation core stored at the Wilson M. Laird Core and Sample Library and available for further evaluation on the campus of the University of North Dakota, and associated data is featured on this poster. This publication is available as an individual item or as a collection (GI-22 A-E) of traditional paper map products or as digital GIS data files. Price: \$15.00 for the poster.

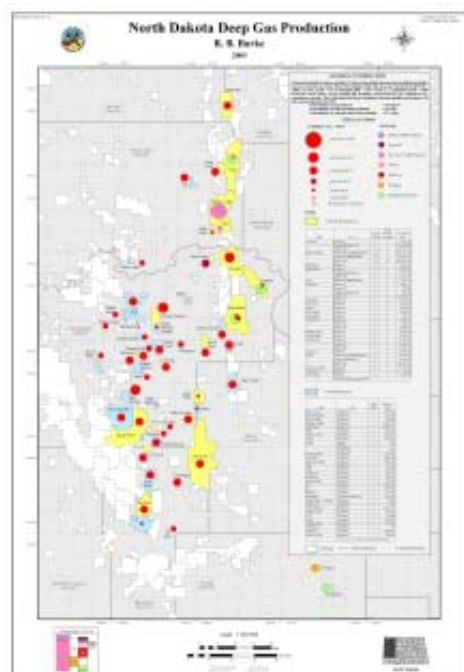
Anderson, F.J., 2005, Cement Rock Mineral Resources of the Shawnee-McCanna Area, North Dakota, Geological Cross Sections, North Dakota Geological Survey Geologic Investigations No. 22E. Price \$3.00

Manz, L.A., 2005, Geology of the Devils Lake Area: North Dakota Geological Survey Geologic Investigations No. 23, poster.



This 23" x 35" poster features a 1:48,000-scale geologic map of the Devils Lake area draped over a shaded relief background. Two accompanying cross-sections illustrate the relationship between geology and topography. Also included are photographs and descriptions of major geologic features, and a discussion on geologic hazards, with special emphasis on the influence of climate and geomorphology on the flooding problems associated with Devils Lake itself. Price: \$5.00.

Miscellaneous Maps



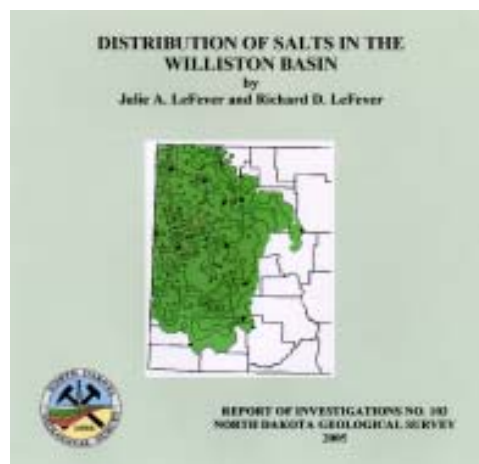
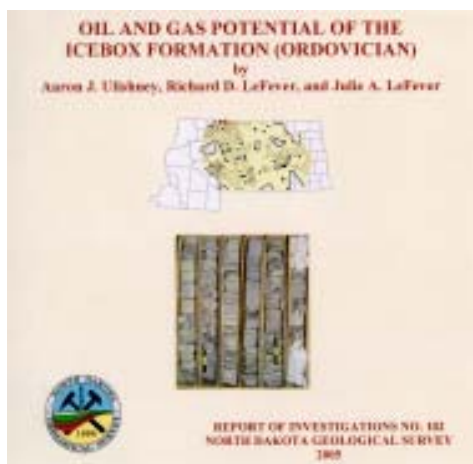
Burke, R.B., 2005, North Dakota Deep Gas Production: North Dakota Geological Survey Miscellaneous Map No. 38.

A 23" x 34" map at 1:355,000 scale showing the distribution of present and past deep (Devonian and older) gas producing fields, producing strata, historical number of gas wells, number of currently producing wells and cumulative production by field and pool through May 2005. Development of North Dakota's gas resources has lagged for many reasons, including having a comprehensive map illustrating the potential. This map provides important data necessary for evaluating further development of an under utilized resource. Price: \$5.00.

Reports of Investigations

Ulishney, A.J., LeFever, R.D., and LeFever, J.A., 2005, Oil and Gas Potential of the Icebox Formation (Ordovician): North Dakota Geological Survey Report of Investigations No. 102, 50 pages, two plates, available only on CD. Price: \$5.00.

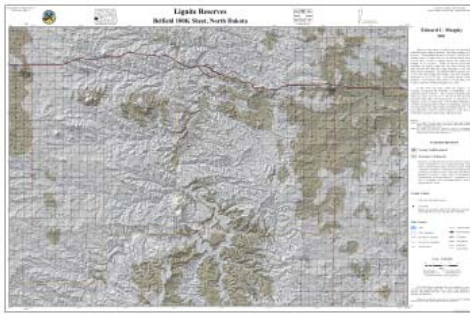
LeFever, J.A., and LeFever, R.D., 2005, Oil and Gas Potential of the Icebox Formation (Ordovician): North Dakota Geological Survey Report of Investigations No. 103, 41 pages, two plates, available only on CD. Price: \$5.00.



100k and 24k Maps

100k Mineral Maps

Murphy, E.C., 2005, Lignite Reserves Bowman 100k Sheet, North Dakota: North Dakota Geological Survey 100k Series Bwmn -c, 1:100,000 scale. Price \$5.00.

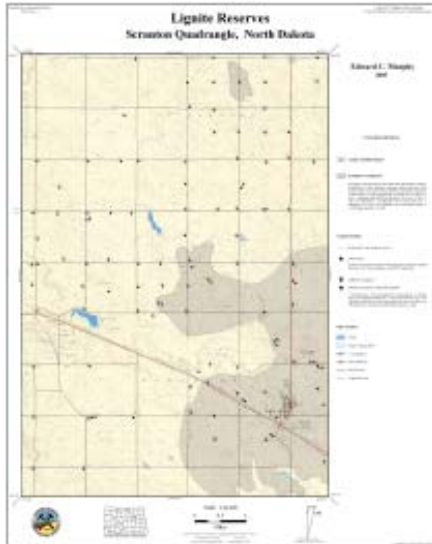


Murphy, E.C., 2005, Lignite Reserves Belfield 100k Sheet, North Dakota: North Dakota Geological Survey 100k Series Blfd –c, 1:100,000 scale. Price \$5.00.

Murphy, E.C., 2005, Lignite Reserves Crosby 100k Sheet, North Dakota: North Dakota Geological Survey 100k Series Crsb –c, 1:100,000 scale. Price \$5.00.

Murphy, E.C., 2005, Lignite Reserves Dickinson 100k Sheet, North Dakota: North Dakota Geological Survey 100k Series Dksn –c, 1:100,000 scale. Price \$5.00.

24K Mineral Maps



Murphy, E.C., 2005, Lignite Reserves Scranton Quadrangle, North Dakota: North Dakota Geological Survey 24k Series Scrn –c, 1:24,000 scale. Price \$5.00.

Murphy, E.C., 2005, Lignite Reserves Beach East Quadrangle, North Dakota: North Dakota Geological Survey 24k Series BchE –c, 1:24,000 scale. Price \$5.00.

Murphy, E.C., 2005, Lignite Reserves Beach West Quadrangle, North Dakota: North Dakota Geological Survey 24k Series BchW –c, 1:24,000 scale. Price \$5.00.

Murphy, E.C., 2005, Lignite Reserves Duck Creek Quadrangle, North Dakota: North Dakota Geological Survey 24k Series DckC –c, 1:24,000 scale. Price \$5.00.

Murphy, E.C., 2005, Lignite Reserves Thelan Quadrangle, North Dakota: North Dakota Geological Survey 24k Series Thln –c, 1:24,000 scale. Price \$5.00.

OUTSIDE PUBLICATIONS

Hoganson, J. W., 2005, Public participation fossil excavations offer unique nature tourism adventures, pp. 29-31, in Alvin A. Jaeger, Secretary of State, North Dakota Blue Book 2005-2007, 612 pp.

Hoganson, J. W., 2005, North Dakota rich in fossil resources, pp. 148-152, in Alvin A. Jaeger, Secretary of State, North Dakota Blue Book 2005-2007, 612 pp.

LeFever, J.A., 2005, Horizontal drilling potential of the Middle Member Bakken: AAPG Rocky Mountain Sectional Meeting, Jackson, Wyoming, 27 pp.

LeFever, J.A., 2005, Overview of Bakken stratigraphy in North Dakota and a “mini” workshop: AAPG Rocky Mountain Sectional Meeting, Jackson, Wyoming, 33 pp.

Smrecak, T.A., Erickson, J.M., Hoganson, J.W., Burton Kelly, M.E., 2005, Comparisons of megafloral assemblages between the Late Cretaceous (Maastrichtian) Hell Creek and Tertiary (Paleocene) Ludlow Formations at the Stumpf site natural area, Morton County, North Dakota: Geological Society of America Abstracts with Programs, Vol. 37, No. 7, 137 pp.

Sperr, Tom and Burke, R.B., 2005, The upper Birdbear (Nisku) of western North Dakota: another emerging Williston Basin oil play: AAPG Rocky Mountain Sectional Meeting, Jackson, Wyoming, 27 pp.

Thorleifson, H., Harris, K., Berg, J., Tipping, R., Malolepszy, Z., Lusardi, B., Setterholm, D., and Anderson, F., 2005, Geological mapping and 3D model of deposits that host ground-water systems in the Fargo-Moorhead region, Minnesota and North Dakota: a report submitted to the U.S. Department of Interior, Bureau of Reclamation, Minnesota Geological Survey, 155 pp.