New Publications

Geologic Investigations


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.


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.


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


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


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.
OXIDE PUBLICATIONS


24K Mineral Maps

Murphy, E.C., 2005, Lignite Reserves Belfield 100k Sheet, North Dakota: North Dakota Geological Survey 100k Series Bfld –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.


