

On the Rocks



A Newsletter of the Michigan Basin Geological Society

2006-2007 Number 6

www.mbgs.org

February 2007

EVENTS

February 13, 2007: (Tuesday) Keith Johnson, Manager of Geophysics with Wolverine Gas and Oil Company will discuss Wolverine's discovery of **The Covenant Field** in the Federal Unit, located in the Central Utah Thrust Belt.

March 14, 2007: Dr. Taggart will discuss the K-T Boundary with the meeting to be held at MSU, more information to follow.

May 5, 2007: Back by popular demand is another Detroit Salt Mine field trip, see information below.

Tentative upcoming field trip:

Baraboo – with Robb Gillespie, Possibly 3rd weekend in Sept. 2007, Friday – Sunday

Newsletter Editor Found!

We wish to thank Arlene Anderson-Vincent with Malcolm Pirnie for assisting MBGS by volunteering to take over the Newsletter Editor responsibilities for 2007-2008 season. To help Arlene out for the upcoming season and to add interest to the contents of this newsletter, I urge our members and officers to submit topics to the Editor for publication. The MBGS Newsletter Editor really depends upon our members to provide topics of geological interest.

Record Meeting Attendance

Last month's meeting attendees heard Andrew Ware discuss the geology of Kennecott's Eagle Project located near Marquette. Setting a modern record for MBGS meetings at the Coyote Creek location, approx 45 members and guests filled the room to hear Andrew's talk. Keep the momentum up by attending this month's presentation, which will show what an independent oil and gas company can accomplish when it sets its sights out west.

2006-2007 MBGS Officers

The Executive Committee meeting minutes are available on our website at www.mbgs.org

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MEETING CANCELLATION POLICY

Monthly meetings will be automatically cancelled whenever the National Weather Service issues a "Storm Warning" for the Lansing area. If driving conditions are poor but a "Warning" has not been issued please contact any member of the Executive Committee for the status of the meeting.

MICHIGAN BASIN GEOLOGICAL SOCIETY PUBLICATIONS

Historical CD #1: Nine out-of-print publications from 1949 through 1965 and 1998, Devonian to Silurian Rock Fieldtrips to MI, WI, IL and Ontario, 2000, \$15

Historical CD #2: Four out-of-print publications from 1947, 1959, 1983 and 1991, Northern Devonian and UP Fieldtrips in MI, 2001, \$15

Historical CD #3: Six out-of-print publications from 1948, 1952, 1990 - 1995, Northern Devonian and UP Fieldtrips in MI, 2001, \$15

Historical CD #4: Six out-of-print publications from 1957, 1958, 1961, 1967, 1968 and 1970, Northern LP and UP Fieldtrips in MI, 2004, \$15

Historical CD #5: Five out-of-print publications from 1971, 1989, 2001, Southern LP, MI and Ohio Fieldtrips and **Oil & Gas Fields Vol. 1 & 2, 1969 & 1992**, 2006, \$50

Special Price - Historical CDs #1, #2, #3, #4, & #5 for \$75

NE Lower Peninsula Geological Field Conference, 2004, T. Black, M. Wollensak, 133 pp., illus., maps. On **CD** \$10

Stratigraphic Lexicon for Michigan, 2001, prepared by MBGS and published by DEQ, 56 pp., chart, \$2.65 picked up or \$4 mailed, Can be ordered from MBGS or Office of Geological Survey of the DEQ

Price Includes postage, handling and any applicable sales tax. Orders for publications should be prepaid in U.S. Funds and addressed to: MBGS - Publications, P O Box 18074, Lansing MI 48901-8074

MBGS Meeting

Tuesday February 13, 2007

Location: Coyote Creek
6951 Lansing Road,
Diamondale, MI 48821

5:30 to 6:15 PM – Social Hour
6:15 PM – Dinner
Presentation after Dinner
Cost (includes dinner) \$25.00 (Students \$15.00)

Topic: **“The Covenant Field:
A significant new oil field in the overthrust belt of central Utah; its discovery,
development and impact on the economy and the environment”**

by

Keith Johnson

Dinner Meeting Reservation

Name: _____

Number Attending: _____

Please notify Thomas Godbold by **February 12, 2007**.
Members are welcome to attend the presentation after dinner for no charge.
Please contact Thomas Godbold to ensure adequate seating.

Send reservations to:

Thomas Godbold
P.O. Box 30256
Lansing, MI 48909-7756
Ph: Bus Ph: 517-241-1545, Fax 517-241-1595
E-mail: godboldt@michigan.gov

**The Covenant Field:
A significant new oil field in the overthrust belt of central Utah; its discovery,
development and impact on the economy and the environment.**

By Keith Johnson
Wolverine Gas and Oil Corporation

Abstract

The overthrust belt of western North America extends from British Columbia to southern Nevada. Large anticlines lie on thrust sheets along the length of this overthrust trend. Many oil and gas fields have been discovered on these structures in Canada, but significant hydrocarbon production in the United States has been primarily limited to a productive salient in southwestern Wyoming and northeastern Utah. On 23 December 2003, the Wolverine Gas and Oil-Kings Meadow Ranches well 17-1 drilled into a 487-ft oil column in the Navajo Sandstone in Sevier County, Utah. This new significant oil reservoir is 146 miles southwest of the nearest thrust belt production at Pineview Field in Summit County, Utah. The discovery of what we call Covenant Field is not only a major discovery for Wolverine Gas and Oil but could open up a new Mississippian-sourced oil field.

Biography

Keith Johnson is Manager of Geophysics for Wolverine Gas and Oil in Grand Rapids, Michigan and has worked in the oil and gas industry since 1978. Prior to joining Wolverine in 1994, Keith was Manager of Geophysics for Telesis Petroleum in London, Ontario (1991-1994), Vice President of Geophysical Services along with other positions of responsibility for Hosking Geophysical (1981-1991) and a seismic analyst for the Seismograph Service Corporation. Keith is a part-time adjunct instructor at Central Michigan University (1997-2007), a past Director of the Michigan Oil and Gas Association (1988-1994), and past District 4 representative of the Society of Exploration Geophysicists (1994-1996). Keith received his Masters of Science in Geology (Geophysics concentration) from Western Michigan University and his Bachelors in Geology from Winona State University.

Request For Good Memories

I (Dr. William Harrison) received a call yesterday from Dr. Cross. He is trying to find out if we have records of a MBGS meeting where he first talked about the Jurassic Red Beds in MI. He thinks it was in 1963, but could be 1962-1964. It does show up on the 1964 Stratigraphic chart of the DNR.

Dr. Harrison asked me to forward this request to our membership to see if any may have been around in 1962 - 1964.

MICHIGAN BASIN GEOLOGICAL SOCIETY FIELD TRIP

DETROIT SALT COMPANY MINE TOUR

5 May 2007

WHERE: Detroit Salt Company, 12841 Sanders Street, Detroit, MI 48217

WHEN: Saturday, 5 May 2007, two tours - 8am & 11am.

COST: None

DRESS: The mine is 59°F so a light coat, jeans or field attire, and boots are required.

EQUIPMENT: Bring a sample bag along for salt specimens. Hard hats, a mine belt, and a mine light will be provided by the Detroit Salt Company.

PHOTOGRAPHY: Still photos for personal use only. No video cameras & no "publishing" on the internet please.

AGE LIMIT: 18 and above.

PARTICIPANT LIMIT: Twelve for each tour and **MBGS MEMBERS ONLY!** (Our insurance carrier requires field trip attendees to be MBGS members.) Go to www.mbgs.org/membershipapp.html for a membership application and use me as a sponsor if you don't have one. **Please send the membership application with the \$25.00 dues attached.**

REGISTRATION DEADLINE: Wednesday 2 May 2007.

LUNCH: After the last tour we will all descend on Vince's for a superb Italian meal as recommended by our tour leader, Emanuel Z. Manos.

DETROIT SALT COMPANY MINE TOUR	
NAME: _____	
ADDRESS: _____	

E-MAIL ADDRESS: _____	
TX#: _____	FAX#: _____
MBGS Member: Yes/No	
PLEASE MAIL, FAX, OR E-MAIL THIS FORM	
TO: Len Espinosa, MBGS, PO Box 18074, Lansing, MI 48901-8074	
48909-7952; Fax# 517-373-2443, TX# 517-335-3248, E-mail espinosl@michigan.gov	
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