The New Albany Shale Gas Play in Southern Indiana

**ABSTRACT**

The New Albany Shale structure, thickness, and stratigraphy were examined for their potential in commercial development. The shale is present in five counties, including Harrison, Posey, Union, and Pike in the southern part of the state. The New Albany Shale is named for the New Albany formation, which outcrops in the southern part of the state. Production from the New Albany Shale includes oil and gas from the Mississippian St. Louis, Salem, and member. In addition to production from the New Albany Shale, other production zones are also present in the area.

**NEW ALBANY SHALE STRUCTURE, THICKNESS, AND STRATIGRAPHY**

- New Albany Shale: Structure, thickness, and stratigraphy were examined for their potential in commercial development.
- Production from the New Albany Shale includes oil and gas from the Mississippian St. Louis, Salem, and member. In addition to production from the New Albany Shale, other production zones are also present in the area.

**NEW ALBANY SHALE PRODUCTION**

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**PARTIAL CORE OF NEW ALBANY SHALE**

- Partial core of the New Albany Shale was examined for its potential in commercial development.
- Production from the New Albany Shale includes oil and gas from the Mississippian St. Louis, Salem, and member. In addition to production from the New Albany Shale, other production zones are also present in the area.

**NEW ALBANY SHALE ELEVATION MAP SHOWING STRUCTURAL FEATURES**

- New Albany Shale elevation map showing structural features.
- Production from the New Albany Shale includes oil and gas from the Mississippian St. Louis, Salem, and member. In addition to production from the New Albany Shale, other production zones are also present in the area.

**NEW ALBANY SHALE TYPICAL CORE:**

- Typical core of the New Albany Shale was examined for its potential in commercial development.
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**NEW ALBANY SHALE STRATIGRAPHIC CROSS SECTION WITH MEMBER CORRELATIONS**

- New Albany Shale stratigraphic cross section with member correlations.
- Production from the New Albany Shale includes oil and gas from the Mississippian St. Louis, Salem, and member. In addition to production from the New Albany Shale, other production zones are also present in the area.

**NEW ALBANY SHALE STRUCTURE AND THICKNESS MAP**

- New Albany Shale structure and thickness map.
- Production from the New Albany Shale includes oil and gas from the Mississippian St. Louis, Salem, and member. In addition to production from the New Albany Shale, other production zones are also present in the area.

**NEW ALBANY SHALE PRODUCTION AND INTEGRATED GEOLOGIC MODEL**

- New Albany Shale production and integrated geologic model.
- Production from the New Albany Shale includes oil and gas from the Mississippian St. Louis, Salem, and member. In addition to production from the New Albany Shale, other production zones are also present in the area.

**NEW ALBANY SHALE GAS PRODUCTION AND PERMIT LOCATION**

- New Albany Shale gas production and permit location.
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Bitumen

One measurement on the equal-area rose from Phegley #1 well in Sullivan County. Cores can differ in direction from those in outcrops and are often occluded by secondary near Henryville in Clark County.

Dominant east-west fractures in New Albany Shale

Gas content in the New Albany Shale varies, generally increasing others, 2001) such that thermogenic gas occurs in areas without freshwater recharge, whereas mixed thermogenic-microbial gas.

Reflectance $R_P$

Hasenmueller, N. R., 1982, Resource assessment of the New Albany Shale (De Day (IGS) photographed and formatted pictures of core illustrated in the poster. The poster was edited by Deborah A. DeChurch. Publication is authorized by Stubenrauch (IGS) designed and formatted the layout for the poster. Barbara T. Hill (IGS) assisted with scanning and modifying individual illustrations. John M.


OIL & GAS


IMMATURE

Morse, D. G., Hasenmueller, N. R., and Nuttall, B. C., 2000a, Map showing total.

Morse, D. G., Hasenmueller, N. R., and Nuttall, B. C., 2000b, Map showing total.

Gas Research Institute, GRI-00/0068, and Illinois Basin Studies 4, CD-ROM.


Modified from Comer and

EXPLANATION

$T_o$ ($^\circ$C)


Hydrogen isotopic

Hasenmueller, N. R., and Comer, J. B., eds., GIS


MAX

data are for core


IMMATURE

Morse, D. G., Hasenmueller, N. R., and Nuttall, B. C., 2000a, Map showing total.

Morse, D. G., Hasenmueller, N. R., and Nuttall, B. C., 2000b, Map showing total.

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