

# Coalbed Methane



NETHERLAND, SEWELL & ASSOCIATES, INC.



One of the **most respected** names  
in independent reserves reporting



Preferred by companies  
who need **reliable results**



Quality at  
a **competitive price**



**Expertise in**  
Coalbed Methane

Coalbed Methane (CBM) ranks as one of the world's largest sources of natural gas. While CBM has the potential to be a highly valuable asset in many locations throughout the world, currently only Australia, China, and the United States are conducting significant and focused exploitation of these resources. Efficiently developing these resources requires the expertise to make accurate assessments of each property. The Netherland, Sewell & Associates, Inc. (NSAI) CBM team has that expertise. We have worked with most of the top CBM operators in almost every major CBM producing basin in the world.

In CBM evaluations it is imperative that you understand the relationship between the properties of the coal and the development strategy. Each year, NSAI personnel work thousands of man-hours evaluating CBM properties worldwide.

### **CBM Experts**

**Diana Ball** – Reservoir Engineer – Dallas

**John Hattner** – Geoscientist – Dallas

**Nathan Shahan** – Reservoir Engineer – Dallas

**Danny Simmons** – Reservoir Engineer – Houston

**Dan Paul Smith** – Reservoir Engineer – Dallas



## Selected CBM Experience

More experience in more areas of the world than any other petroleum consulting firm.

### North America

Appalachian Basin	Great Plains Coal Field
Arkoma Basin	Illinois Basin
Black Warrior Basin	Piceance Basin
Cahaba Basin	Powder River Basin
Cherokee Basin	Raton Basin
Cook Inlet Basin	Sabinas Basin
Coosa Basin	San Juan Basin
Greater Green River	Uinta Basin

### Australia

Bowen Basin	Gunnedah Basin
Cooper Basin	Surat Basin
Galilee Basin	Sydney Basin
Gloucester Basin	

### Other Areas

Belgium	India
Botswana	Indonesia
China	Israel
Colombia	Mexico
Czech Republic	Poland
Germany	South Africa
Great Britain	Vietnam

## Methodology

Our scope of work generally includes:

- Geologic assessment of the coal seams' structure, thickness, and quality
- Geologic model construction
- Performance assessments of historical production
- Reservoir simulation
- Interpretation of Langmuir isotherm test
- Comparison of performance to volumetric analysis
- Independent reserves and resources assessments, including economics
- Planning, design, implementation, and appraisal of development programs
- CBM training classes and seminars

Because of our commitment to independent evaluations, the NSAI name is highly respected by both the energy and financial communities. By applying sound judgment and methodology, our CBM team is able to assess the project requirements, interpret the data, and provide top quality results.

Our clients get the NSAI name and our team of experts. We think they get the very best.

## **Selected CBM Clients**

Chosen by more companies to evaluate more CBM properties than any other petroleum consulting firm.

Alberta Energy Corporation  
Anadarko Petroleum Corporation  
Anglo Coal Pty Ltd  
Arrow Energy N.L.  
Asian American Gas, Inc.  
Australia Pacific LNG  
Australian Gas Light Company  
Battalion Resources, LLC  
BHP Billiton  
Bill Barrett Corporation  
Blue Energy Limited  
Carbon Creek Energy  
Comet Ridge Limited  
ConocoPhillips  
CONSOL Energy  
Constellation Energy Partners  
Dart Energy Ltd  
Double Eagle Petroleum Company  
Eastern Star Gas Limited  
EnCana Corporation  
Ephindo Energy Private Limited  
Exxaro (Kumba) Resources  
Far East Energy Corporation  
Great Eastern Energy Corporation Ltd.  
Greka China Ltd  
Icon Energy Limited  
Marathon Oil Company  
Origin Energy Ltd  
Pangaea Resources Pty Ltd  
Pemex Exploración y Producción  
Pioneer Natural Resources USA, Inc.  
QGC – A BG Group business  
Quicksilver Resources  
Reliance Resources Inc.  
Santos Ltd  
Senex Energy Limited  
Shell Oil Company  
St. Mary Land & Exploration Company  
Summit Gas Resources, Inc.  
Sydney Gas Limited  
TLOU Energy  
Trident Exploration Corp.  
WPX Energy, Inc.  
Yates Petroleum Corporation





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