

## SHORT COURSE

### *Coalbed Methane Well Completions: Principles and Best Practices* April 29, 2008 – Hilton Garden Inn-Southpointe, Canonsburg, PA

#### **COURSE OBJECTIVE**

*To provide the background and best practices for optimization of Coalbed Methane vertical and horizontal well completions.*

#### **COURSE DESCRIPTION**

*A one day short course (7 PHD) on CBM Well Completions covering:*

- *Drilling CBM Wells*
- *Testing CBM Wells*
- *Selecting and Evaluating Completions*
- *Frontiers in CBM Completions*

#### **INTENDED AUDIENCE:**

*Engineers, Geologists, Geophysicists, and Managers*

#### **INSTRUCTOR:**

*Ian Palmer is a geomechanics specialist and partner with Higgs-Palmer Technologies and is a consultant in coalbed methane, sand prediction, hydraulic fracturing, shear stimulation. Ian has evaluated completions in CBM plays internationally as well as in USA and Canada. He is the originator of a consortium of companies investigating stimulation of low-perm formations. He was an SPE Distinguished Lecturer in 2001-02.*

#### **COURSE OUTLINE**

##### **Commercial Production**

*Permeability is key  
Strategy for low perm coals  
Benchmark to predict success in new CBM  
Recent successful CBM plays*

##### **Drilling and Testing**

*Wellbore stability during drilling and production  
Hole collapse and fines, Liners  
Pre-completion testing – IFOT versus DFIT  
Pilot testing*

##### **Selecting Completions**

*Horizontals and multilaterals  
Under-ream, cavity, hydraulic fracture  
How to choose – decision trees*

##### **Evaluating Completions**

*Diagnostic Methods – tracers, microseismic, tiltmeter, frac pressure, well testing  
Simple rule-of-thumb to evaluate completion  
Field cases*

##### **Frontiers**

*Fracturing horizontal wells  
Producing coals with perms < 1 md  
Perm changes during production*

***SHORT COURSE REGISTRATION FORM***  
***Coalbed Methane Well Completions: Principles and Best Practices***  
***April 29, 2008 – Hilton Garden Inn-Southpointe, Canonsburg, PA***

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Company Affiliation: \_\_\_\_\_ Position/Title: \_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_ E-mail: \_\_\_\_\_

***Registration Fee: \$400***  
***Early Registration Fee: \$300 (Payment must be received before April 21, 2008)***  
***Send this form with your check made to:***  
***North American Coalbed Methane Forum***  
***P.O. Box 4623***  
***Star City, WV 26504***  
***The registration includes lunch and refreshments in the morning and afternoon.***  
***We Do Not Accept Credit Cards, Purchase Orders, or Invoices***