Title: BIOGENIC METHANE PRODUCTION ENHANCEMENT SYSTEMS

Abstract: Systems for enhanced in-situ or perhaps even ex-situ biogenic methane production from hydrocarbon-bearing formations (1) including coal seam, oil shale, coal, coal derivates and the like are presented in embodiments such as but not limited to: increasing and perhaps even selection of microbial populations (2), amending CBM water and other microbe-containing media, diminishing sulfate reduction competition, enhancing organic matter concentrations and generation of biogenic methane (10), universally treating hydrocarbon-bearing formations, and introducing amendments (3) to hydrocarbon-bearing formations.
Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.
A. CLASSIFICATION OF SUBJECT MATTER
DPC: E21B 43/22 (2006.01)

USPC: 166/246,371,308.1
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
U.S.: 166/246,369,371,308.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2004/0033557 A1 (SCOTT et al.) 19 February 2004 (19.02.2004), see entire document, especially the abstract, [0013], [0035], [0050], [0064], and at least Fig. 4.</td>
<td>37-74, 77-79, 112-147, 150-152</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C. See patent family annexe.

Date of the actual completion of the international search 09 May 2007 (05.05.2007)

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 3:
East: (biogenic with methane with produc$ and microbial and (wellbore borehole subterranean downhole (hydrocarbons near formations))

Form PCT/ISA/210 (extra sheet) (April 2005)