Title: SYSTEM, PROGRAM PRODUCT AND METHODS FOR PERFORMING AUTOMATED REAL-TIME OIL RESERVOIR PRESSURE ESTIMATION

Abstract: Systems (30), program product, and methods for providing real-time reservoir management of one or more reservoirs (21) across one or more fields (23) are provided. A system (30) can include multiple monitoring wells and at least one injection well (29) in communication with a central facility (32) including a reservoir management computer (31) or server positioned to provide real-time reservoir management of the one or more reservoirs (21). The computer (31) can include, stored in memory (35), reservoir management program code (81), which when executed, can cause the computer (31) to perform the operations of calibrating an injection well model (55) for each of one or more injection wells (29) positioned in a reservoir (21) responsive to real-time injection rate and wellhead pressure data associated therewith, calculating static reservoir pressure for each of the injection wells (29) responsive to the respective calibrated injection well model (55) and responsive to respective surface injection rate and wellhead pressure data, and generating real-time automated isobaric pressure maps (91).
# INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

INV. G01V11/00  E21B49/00

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)

G01V  E21B

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

Electronic database consulted during the international search (name of database and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search: 20 October 2009

Date of mailing of the international search report: 02/11/2009

Name and mailing address of the ISA/ European Patent Office, P. B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax (+31-70) 340-3016

Authorized officer: Schneiderbauer, K

Form PCT/ISA/210 (second sheet) (April 2005)
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          | page 1, paragraph 3
          | page 2, paragraph 9
          | page 3, paragraphs 4,5
          | figures 4,5
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          | page 1, paragraph 5 - paragraph 8
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          | page 4, paragraphs 1,3
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| A        | SENGUL M., BEKKOUSHA M.A.: "Applied Production Optimization: i-Field"
          | San Antonio, Tx
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<td>US 2005038603 A1</td>
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