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(71) Applicant: **LANDMARK GRAPHICS CORPORATION** [US/US]; 2107 City West Blvd., Bldg. 2, Houston, Texas 77042 (US).(72) Inventors: **MCNEALY, Timothy R.**; 19803 Treemont Fair Drive, Richmond, Texas 77407 (US). **GHAISEMI, Mohammadreza**; 1101 Southwest Parkway, Apt. 206, College Station, Texas 77840 (US).(74) Agents: **MACKEY, Cole** et al.; Locke Lord LLP, 600 Travis, Suite 2800, Houston, Texas 77002-3095 (US).

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(54) Title: HISTORY MATCHING MULTI-POROSITY SOLUTIONS

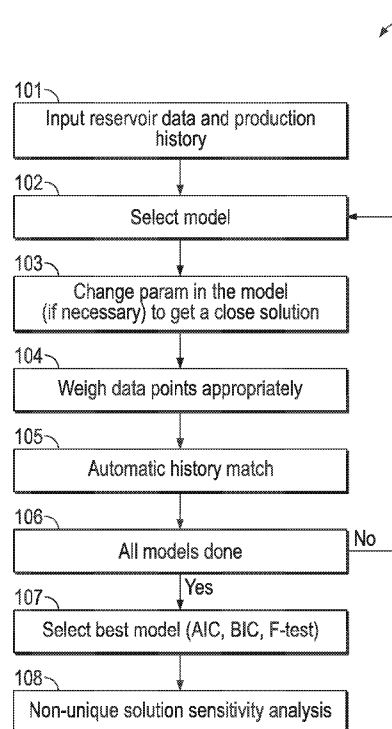


FIG. 1

(57) Abstract: A computer implemented method can include selecting a first flow rate model for a well, providing reservoir data to the first flow rate model, providing production history data to the first flow rate model, computing a solution to the first flow rate model and comparing the solution to production history data. A method can include implementing dual, triple or quad porosity models of a reservoir and history matching a model against actual well production data. A method can include comparing one or more models and determining whether a parameter has a unique solution. A system can include a computer readable medium having instructions stored thereon that, when executed by a processor, cause the processor to perform one or more methods.

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