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(54) Title: METHOD OF DETERMINING RESERVOIR PRESSURE

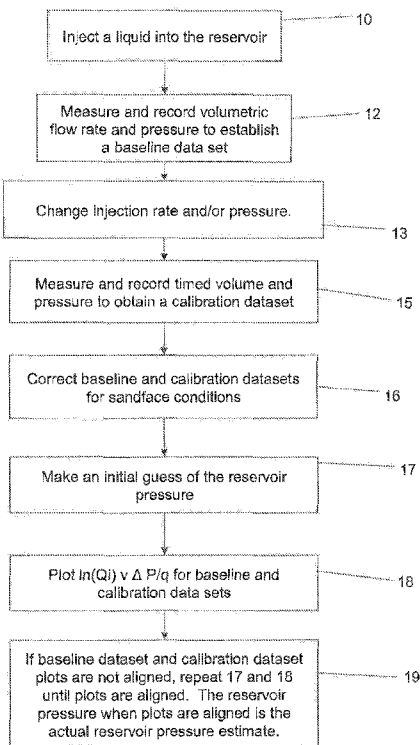


FIGURE 1

(57) Abstract: A new approach is disclosed for measuring the pressure of tight gas reservoirs, using information obtained from continuous injection prior to hydraulic fracture stimulation. The technique can be obtained utilizing either bottom-hole or surface pressure gauges and properly instrumented surface injection pumps. The analysis is completed by plotting injection and rate data in a specialized form from terms arranged in Darcy's radial flow equation to obtain a curve or trend. The key component to proper application of this technique is to obtain both baseline and one or more calibration data sets. These calibration data sets are obtained by either increasing or decreasing the injection pressure and / or rate from the baseline data. Initial reservoir pressure is assumed, but the calibration data indicates if the guess was too high or low. Accurate estimates of reservoir pressure may be obtained in a few iterations.



SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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ADD.  
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B. FIELDS SEARCHED  
Minimum documentation searched (classification system followed by classification symbols)  
E21B

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)  
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SHIE-WAY WANG: "Application of Radial Flow Theory and PLT Surveys to Determine Reservoir Pressure and Wellbore Conditions for Gas Reservoirs", SPE ANNUAL TECHNICAL CONFERENCE AND EXHIBITION, 1 October 2000 (2000-10-01), pages 1-11, XP055062762, Texas, Dallas, USA the whole document	17,19-21
Y A	-----	29 1-16,18
X	US 2009/276156 A1 (KRAGAS TOR KRISTIAN [US] ET AL) 5 November 2009 (2009-11-05) paragraph [0046] - paragraph [0052]	22-28
Y A	-----	29 1-16

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009276156	A1	NONE	