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(71) Applicant (for all designated States except US):
KERR-MCGEE ROCKY MOUNTAIN LLC [US/US];
123 Kerr-mcgee, Oklahoma City, Oklahoma 73102 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MORTON, Gleen**
[US/US]; 10131 Cairn Meadows Drive, Spring, Texas
77379 (US).

(74) Agents: **HALL, William** et al.; MCAFEE & TAFT A
PROFESSIONAL CORPORATION, TENTH FLOOR,
TWO LEADERSHIP SQUARE, 211 North Robinson,
Oklahoma City, Oklahoma 73102 (US).

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(54) Title: DETERMINING VISCOSITY OF FLUIDS FROM WELL LOGS USING ELECTROSEISMIC MEASUREMENTS

(57) Abstract: The current invention provides methods for determining the viscosity of pore fluids found in subterranean formation. In particular, the current invention provides methods for distinguishing between pay and non-pay zones of subterranean formation on the basis of the viscosity of the pore fluid found within the zones. Through use of well logging techniques, the current invention measures electromagnetic radiation generated by movement of the pore fluid through the formation in response to a Stoneley wave to determine the viscosity of the pore fluid.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **E21B 49/00**(2006.01);**E21B 47/10**(2006.01);**E21B 47/00**(2006.01)

USPC: 73/152.05,152.18,152.54

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. : 73/152.05,152.18, 152.54

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,841,280 A (Yu et al) 24 November 1998 (24.11.1998), entire document	1-29
A	US 4,813,028 A (Liu) 14 March 1989 (14.03.1989), entire document	1-29

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

* Special categories of cited documents:	
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer John Fitzgerald Telephone No. 703-308-1113
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