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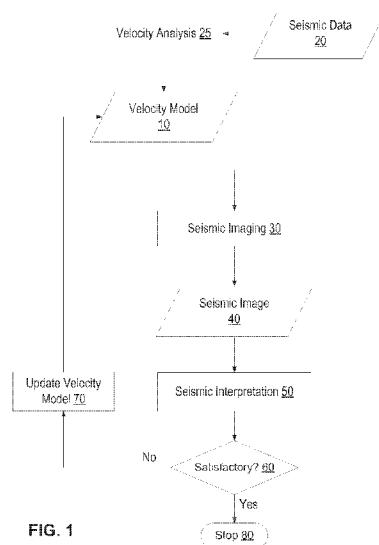


FIG. 1

(57) Abstract: A method of developing a velocity model for processing a seismic dataset is implemented at a computer system having a processor and memory. The method includes: deriving a first velocity model from the seismic dataset; building a basin model based on the first velocity model and interpretation of the seismic dataset; validating the basin model using calibration data; deriving a second velocity model from the validated basin model; and updating the first velocity model based, at least in part, on the second velocity model.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED
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G01V
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, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/032955 A1 (WILLIAMS KENNETH E [US]) 8 February 2007 (2007-02-08) the whole document	1-17
A	WO 2012/006604 A2 (GECO TECHNOLOGY BV [NL]; SCHLUMBERGER CA LTD [CA]; SCHLUMBERGER TECHNO) 12 January 2012 (2012-01-12) page 24 - page 38; claim 1	1-17
A	MAREK KACEWICZ ET AL.: "Combining seismic inversion with basin modeling-an Indonesia case study", SEG/NEW ORLEANS 2006 ANNUAL MEETING, 2006, pages 2943-2947, XP002728049, the whole document	1-17

Further documents are listed in the continuation of Box C.

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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 2007032955	A1	08-02-2007	NONE

WO 2012006604	A2	12-01-2012	EP 2591381 A2 15-05-2013
			US 2012059633 A1 08-03-2012
			WO 2012006604 A2 12-01-2012
