Title (en)

METHOD FOR IMPROVED MAPPING OF TIME OR DEPTH STRUCTURE BASED ON TWO-DIMENSIONAL SEISMIC DATA

Title (de)

VERFAHREN ZUR VERBESSERUNG VON KARTEN DER UNTERERDISCHE STRUKTUR AUS ZWEIDIMENSIONALEN SEISMISCHEN DATEN

Title (fr)

METHODE D'ELABORATION DE CARTES AMELIOREES DE STRUCTURE TEMPS OU PROFONDEUR A PARTIR DE DONNEES SISMIQUES A DEUX DIMENSIONS

Publication

EP 0991957 A1 20000412 (FR)

Application

EP 98933702 A 19980624

Priority

- FR 9801330 W 19980624
- FR 9707815 A 19970624

Abstract (en)

[origin: FR2764993A1] The invention concerns a method for producing improved maps of time or depth structure based on two-dimensional seismic data, consisting in migrating non-migrated 2D data at a velocity function V1 to produce an initial 3D map for a given reflector R2. The method is characterised in that it consists in de-migrating all the points P1 of the initial map to obtain de-migrated points P2, selecting the points P2 which are located on or in the proximity of acquisition lines L1.....Ln, migrating the selected points P2 at a velocity function V1 to obtain migrated points P3, reading the point P4 of the reflector R2 nearest to the point P3, de-migrating each point P4 to obtain a point P5 to which is assigned a horizontal component of the orthogonal slope associated with point P2, migrating the points P5 to obtain an intermediate 3D map and proceeding by iterative method until points P3 points P4 are convergent.

IPC 1-7

G01V 1/30

IPC 8 full level

G01V 1/30 (2006.01)

CPC (source: EP)

G01V 1/301 (2013.01)

Citation (search report)

See references of WO 9859263A1

Designated contracting state (EPC)

FR GB IT NL

DOCDB simple family (publication)

FR 2764993 A1 19981224; **FR 2764993 B1 19990730**; CA 2294280 A1 19981230; EP 0991957 A1 20000412; NO 996415 D0 19991222; NO 996415 L 20000221; OA 11248 A 20030724; WO 9859263 A1 19981230

DOCDB simple family (application)

FR 9707815 A 19970624; CA 2294280 A 19980624; EP 98933702 A 19980624; FR 9801330 W 19980624; NO 996415 A 19991222; OA 9900309 A 19991224