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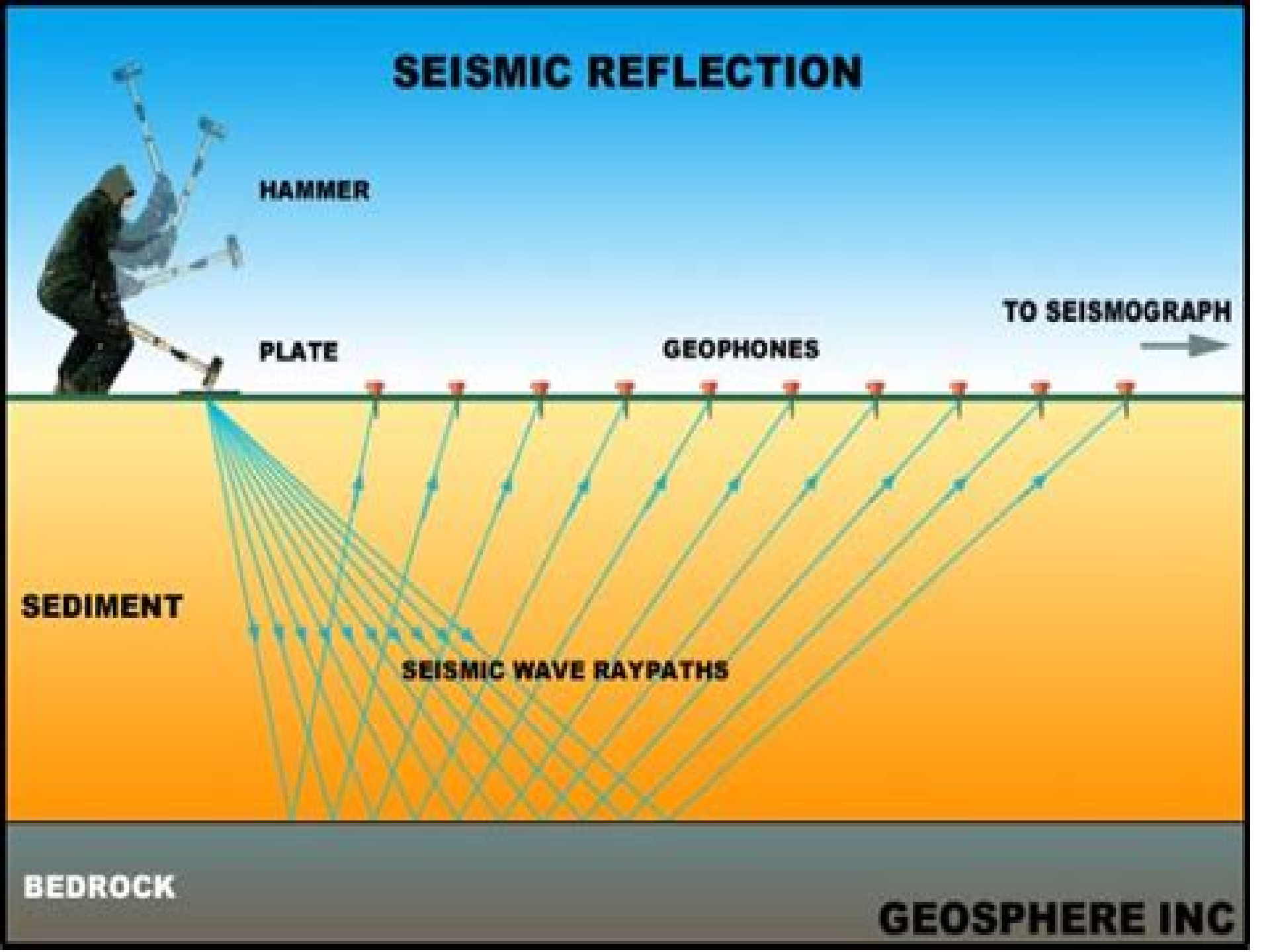


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Seismic Reflection Processing

Frederick J. Davey



Seismic Reflection Processing:

Processing of Seismic Reflection Data Using MATLAB Wail A. Mousa, Abdullatif A. Al-Shuhail, 2022-05-31 This short book is for students professors and professionals interested in signal processing of seismic data using MATLAB™ The step by step demo of the full reflection seismic data processing workflow using a complete real seismic data set places itself as a very useful feature of the book This is especially true when students are performing their projects and when professors and researchers are testing their new developed algorithms in MATLAB™ for processing seismic data The book provides the basic seismic and signal processing theory required for each chapter and shows how to process the data from raw field records to a final image of the subsurface all using MATLAB™ The MATLAB™ codes and seismic data can be downloaded here Table of Contents Seismic Data Processing A Quick Overview Examination of A Real Seismic Data Set Quality Control of Real Seismic Data Seismic Noise Attenuation Seismic Deconvolution Carrying the Processing Forward Static Corrections Seismic Migration Concluding Remarks *Processing Near-surface Seismic-reflection Data* Gregory S. Baker, 1999 The goal of this primer is to provide a basic near surface seismic reflection processing guide for workers who have not had industry or academic supported training or guidance but wish to maintain the integrity of seismic imaging as a tool for near surface exploration Increasingly shallow reflection seismology is being used as a noninvasive tool for determining physical properties and geometry of the upper 100 meters of the subsurface This primer focuses on processing two small data sets using standard common midpoint CMP processing and includes significant processing pitfalls encountered in previous work The primer includes a booklet and accompanying data sets on CD *Seismic Reflection Processing* S.K. Upadhyay, 2013-03-09 The author coherently presents the physical concepts mathematical details and methodology for optimizing results of reservoir modeling under conditions of isotropy and anisotropy The most common form of anisotropy the transverse isotropy is dealt with in detail Besides practical aspects in reservoir engineering such as interval isotropic or anisotropic properties of layered media identifying lithology pore fluid types and saturation and determining crack fracture orientations and density form the core of discussions This book incorporates significant new developments in isotropic and anisotropic reflection processing while organizing them to improve the interpretation of seismic reflection data and optimizing the modeling of hydrocarbon reservoirs The text contains exercises and problems and solutions are provided for the exercises This book is written primarily for graduate postgraduate students and research workers in geophysics *Aspects of Seismic Reflection Data Processing* R. Marschall, 1989 *Seismic Reflection Processing Report* Texas Instruments Incorporated, Denis Conne, Debra Belsey, Krish Gunaratnam, Geological Survey of Canada, Atlantic Geoscience Centre, 1986* *Seismic Reflection Processing (videorecording)*. , 1989 **Seismic Reflection Techniques** Paul Newman, Geological Society of London, Joint Association for Petroleum Exploration Courses (UK)., 1986 *The Processing and Interpretation of Seismic Reflection Data, Warren County, Ohio* Mark L. Shoemaker, 1993 **Reflection Seismology** Yang Wencai, 2013-09-18

Authored by a geophysicist with more than 50 years of experience in research and instruction **Reflection Seismology Theory Data Processing and Interpretation** provides a single source of foundational knowledge in reflection seismology principles and theory Reflection seismology has a broad range of applications and is used primarily by the oil and gas industry to provide high resolution maps and build a coherent geological story from maps of processed seismic reflections Combined with seismic attribute analysis and other exploration geophysics tools it aids geologists and geo engineers in creating geological models of areas of exploration and extraction interest Yet as important as reflection seismology is to the hydrocarbon industry it s difficult to find a single source that synthesizes the topic without having to wade through numerous journal articles from a range of different publishers This book is a one stop source of reflection seismology theory helping scientists navigates through the wealth of new data processing techniques that have emerged in recent years Provides geoscientists and geo engineers with a theoretical framework for navigating the rapid emergence of new data processing techniques Presents a single source of reflection seismology content instead of a scattering of disparate journal articles Features more than 100 figures illustrations and working examples to aid the reader in retaining key concepts Arms geophysicists and geo engineers with a solid foundation in seismic wave equation analysis and interpretation

Some Aspects of Digital Processing of Seismic Reflection Data John Arthur MacLean,1972 Some Processing Trials on Deep Seismic Reflection Data Frederick J. Davey,1984 A Petroleum Geologist's Guide to Seismic Reflection William Ashcroft,2011-05-06 This book is written for advanced earth science students geologists petroleum engineers and others who want to get quickly up to speed on the interpretation of reflection seismic data It is a development of material given to students on the MSc course in Petroleum Geology at Aberdeen University and takes the form of a course manual rather than a systematic textbook It can be used as a self contained course for individual study or as the basis for a class programme The book clarifies those aspects of the subject that students tend to find difficult and provides insights through practical tutorials which aim to reinforce and deepen understanding of key topics and provide the reader with a measure of feedback on progress Some tutorials may only involve drawing simple diagrams but many are computer aided PC based with graphics output to give insight into key steps in seismic data processing or into the seismic response of some common geological scenarios Part I of the book covers basic ideas and it ends with two tutorials in 2 D structural interpretation Part II concentrates on the current seismic reflection contribution to reservoir studies based on 3 D data

Digital Processing of Seismic Reflection Records from South Park, Colorado Jan Fatti,1974 **Advanced Digital Signal Processing of Seismic Data** Wail A. Mousa,2020-01-16 Seismic data must be interpreted using digital signal processing techniques in order to create accurate representations of petroleum reservoirs and the interior structure of the Earth This book provides an advanced overview of digital signal processing DSP and its applications to exploration seismology using real world examples The book begins by introducing seismic theory describing how to identify seismic events in terms of signals and

noise and how to convert seismic data into the language of DSP Deterministic DSP is then covered together with non conventional sampling techniques The final part covers statistical seismic signal processing via Wiener optimum filtering deconvolution linear prediction filtering and seismic wavelet processing With over sixty end of chapter exercises seismic data sets and data processing MATLAB codes included this is an ideal resource for electrical engineering students unfamiliar with seismic data and for Earth Scientists and petroleum professionals interested in DSP techniques *Analysis and Processing of Seismic Reflection Interferograms* Christophe Zaroli,2006

Processing and Interpretation of Illinois Basin Seismic Reflection Data Katherine M. Gigandet,2014 An anonymous oil company released 2D dynamite reflection data from the Illinois basin to be reprocessed and interpreted by Wright State University The aim of the project is to exhaustively apply different seismic processing methods to the data to determine if any improvement in the imaging and interpretation may be accomplished The data interpretation procedure convolved extracted wavelets from the final migrated section with reflectivity calculated from well log data provided Once major formation tops were identified attribute analysis was applied to locate potential oil volumes of interest The raw shot records from this impulse data are dominated by guided refracted waves A large number of shot records show a stationary seismic source generating coherent noise at the same receiver locations throughout the survey Rather than simply edit the affected traces I investigated methods to filter this source of noise to maintain the fold of coverage This investigation found that several FK filters combined with iterative application of residual statics and velocity analysis was very effective in removing both the guided waves and the stationary source waves on the raw shot records resulting in improvement of the imaging Radon filtering was attempted to reduce multiples and for future marine studies Two well logs were successful in creating synthetic seismic traces within the area of the data allowing a comparison to the migrated section and identification of the bottom of New Albany top of Maquoketa top of Trenton and the top of the Knox unit AVO volume analysis of intercept and gradient revealed a type 1 anomaly at the Trenton since it has high impedance An anomaly of interest is seen below the Trenton of unknown origin with the same characteristics It was concluded the seismic processing provided an interpreted stack despite the noise present and a meaningful AVO attribute analysis could be performed *Some Processing Trials on Deep Crustal Seismic Reflection Data* Frederick J. Davey,1984

Seismic Reflection Data Acquisition, Processing and Interpretation Cheryl D. Cape,1989

Processing and Interpretation of Seismic Reflection Data Pedro Paramo,2002 This subsurface study based on the processing and interpretation of seismic reflection data and previous potential field analysis provides a better knowledge of the subsurface geology of Allen County Ohio *Seismic Reflection Processing for Characterization of a Hazardous Waste Site* ,1997

Seismic reflection data have been acquired by the Kansas Geological Survey near the Oak Ridge K 25 Plant on the Oak Ridge Reservation Tennessee to assist in the selection of ground water monitoring well locations The data were recorded in uncorrelated format to allow flexibility in enhancement of stacked images During the summer of 1996 five of the thirteen

seismic reflection lines acquired were processed. An unconventional correlation procedure Vibroseis Whitening VSW Coruh and Costain 1983 has been applied to produce improved seismic sections. Refraction statics corrections which remove the detrimental effect of an irregular weathered layer have also been utilized to improve the seismic sections. The seismic data were stacked using the velocities obtained from a standard semblance velocity analysis tool. Locations and orientations of faults or fault zones can be interpreted from these stacked sections and they are in agreement with the interpretations of the surface mapping in the area. This paper concludes that VSW and refraction statics can be important to near surface swept source seismic data processing.

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