

HANDBOOK OF GEOPHYSICAL EXPLORATION

SECTION I. SEISMIC EXPLORATION

KLAUS HELBIG and SVEN TREITEL (Editors)

VOLUME 14A

**VERTICAL
SEISMIC
PROFILING
PART A: PRINCIPLES**

by BOB A. HARDAGE

GEOPHYSICAL PRESS

Vertical Seismic Profiling

**Massachusetts Institute of
Technology. Earth Resources
Laboratory**



Vertical Seismic Profiling:

Vertical Seismic Profiling and Its Exploration Potential E.I. Galperin, 2012-12-06 The present book is the author's third on the subject of vertical seismic profiling VSP Ten years have elapsed since the publication of the first book During this period VSP has become the principal method of seismic observations in boreholes and the chief method of experimental studies of seismic waves in the real earth VSP combines borehole studies in the seismic frequency band well velocity surveys proximity or aplanatic surveys all of which previously existed as separate methods The high effectiveness of VSP its great practical value the express nature and clarity of the results obtained have all contributed towards a very rapid acceptance of the method In the USSR VSP has been used in an overwhelming majority of areas and is being used increasingly in many foreign countries as well This has been greatly facilitated by the translation into English and the publication in the U S A by the Society of Exploration Geophysicists of the book *Vertical Seismic Profiling* Tulsa Oklahoma 1974 As the method has become more familiar it has attracted growing interest outside the USSR This has been substantiated by the special seminar on VSP Oklahoma 1979 which was organized for 22 U S companies and universities and presented by the author *Vertical Seismic Profiling* Bob Adrian Hardage, 2000 Hardbound The book is a comprehensive and concise systematic presentation of the technique of Vertical Seismic Profiling for the study of subsurface properties and structure Compared to the previous editions from 1983 and 1985 the 1999 edition will contain much new material on equipment advances in the fields of a multi level receiver arrays small diameter receivers vertical cable arrays fiber optic cable and expanded applications such as reverse VSP drill bit source 3 D VSP imaging stratigraphic calibration of 3 D seismic images crosswell profiling single well imaging systems Also the new book will contain reflections on the industry VSP research climate and the role of the US National laboratories in VSP Research *Vertical Seismic Profiling : Technique Applications and Case Histories* A. H. Balch, Myung W. Lee, 1984-09-24 *Vertical Seismic Profiling* Bob Adrian Hardage, 1983 [Vertical Seismic Profiling](#) Evsei Iosifovich Gal'perin, 1974 [Vertical Seismic Profiling](#) M. N. Toksöz, Robert R. Stewart, 1984 **VSP (Vertical Seismic Profile) Site Characterization at NTS (Nevada Test Site)**. , 1990 In late 1989 a site characterization study using the Vertical Seismic Profile VSP method was conducted as part of the On Site Seismic Yield OSSY experiment organized by Lawrence Livermore Laboratory as well UE 10 ITS number sign 3 located in Yucca valley inside the Nevada Test Site NTS The OSSY experiment fired 10 and 100 lb explosive sources at several depths in the hole with multiple 3 component receivers on the surface to test the nature of seismic signal scaling with source size and the accuracy in the near field of source modeling algorithms Shear waves in particular are influenced strongly by both the source mechanism and the properties of the propagation path The multi component OSSY VSP 3 component receivers at several depths with P SV and SH surface sources measured the seismic wave transmission separately for three source types The VSP surface source to borehole receiver acquisition geometry was reversed in the subsequent explosion phase of the experiment in which the explosion

generated waves presumably experienced the same propagation effects as did the waves generated by the VSP sources The OSSY VSP has progressed through data acquisition and processing to an initial interpretation in terms of P and S velocity structures Preliminary result were presented at the 1990 meeting of the Seismological Society of America Daley and McEvilly 1990 This report is an overview of the data acquisition processing and analysis to date and on plans for the next of interpretation 6 refs 23 figs

Vertical Seismic Profiling Alfred H. Balch,1984 Vertical Seismic Profiling Part A Bob A. Hardage,1983 Vertical Seismic Profiling A. H. Balch,Rachel Lee,1984 A Practical Use of Vertical Seismic Profiles Bob Adrian Hardage,1997 Vertical Seismic Profiling Bob A. Hardage,1983 **Vertical Seismic Profiling** Jose M. Pujol,1985

Geological Survey Professional Paper Geological Survey (U.S.),1988 **Reservoir delineation** Massachusetts Institute of Technology. Earth Resources Laboratory,1985 3-D Vertical Seismic Profiling at LLNL Site 300 ,1997 The initial goal of the 3 D Vertical Seismic Profiling VSP work at LLNL was to characterize seismic wave velocities and frequencies below the vadose zone to design the acquisition geometry for a 3 D shallow surface seismic reflection survey VSPs are also used routinely to provide a link between surface seismic data and well logs However a test 2 D seismic line recorded at LLNL in the Spring of 1994 indicated that obtaining high quality reflection images below the vadose zone yet shallower than 50 m would require an expensive very finely sampled survey 1 m receiver spacing Extensive image processing of the LLNL 2 D test line indicated that the only reliable reflection was from the top of the water table Surprisingly these results were very different than recent 3 D seismic work recorded at other sites where high quality high frequency surface up to 300 Hz reflection images were obtained as shallow as 20m We believe that the differences are primarily due to the comparatively deep vadose zone at LLNL 15 to 30m as compared to 0 5m at other sites The thick vadose zone attenuates the reflection signals particularly at the high frequencies above 100 In addition the vadose zone at LLNL creates a seismogram in which surface propagating noise overlaps with the reflection signals for reflections above 50 m By contrast when the vadose zone is not thick high frequencies can propagate and noise will not overlap with reflections as severely Based on the results from the 2 D seismic line and the encouraging results from a VSP run concurrent with the 2 D seismic experiment we modified the objectives of the research and expanded the scope of the VSP imaging at LLNL We conducted two 3 D multi offset VSP experiments at LLNL in the Summer and Fall of 1994 These VSP experiments were designed to characterize the seismic propagation characteristics at two different locations on the LLNL site the first was a well with a relatively shallow water table 10m while the second was a well with a relatively deep water table about 25m Other goals of the VSP experiments were to characterize the velocity structure in the vicinity of boreholes and to attempt to image reflections away from the boreholes We found that the usable frequency content appeared to vary with water table level

U.S. Geological Survey Professional Paper ,1949 **Vertical Seismic Profiling** Southeastern Geophysical Society,1981* **Reservoir Delineation** Massachusetts Institute of Technology. Earth Resources Laboratory,1992 **Vertical seismic Profiling** Evsej

Iosifovic Gal'perin,1974

Reviewing **Vertical Seismic Profiling**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Vertical Seismic Profiling**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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