

A REVIEW ON VERTICAL SEISMIC PROFILING (VSP) A CASE STUDY OF CANADIAN OIL SANDS



By

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A thesis

Presented to the Bahria University, Karachi Campus

In partial fulfillment of the requirement

For the degree of

Bachelors of Sciences in (Geophysics)

Spring (2016)

**DEPARTMENT OF EARTH & ENVIRONMENTAL SCIENCES
BAHRIA UNIVERSITY
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Acknowledgement

All praises for Almighty ALLAH, the most beneficial .the most merciful, compassionate the creator of the Universe who blessed me with the knowledge and enabled me to complete the research work.

All respect to Holy Prophet Hazrat Muhammad (P.B.U.H) who appeared and blossomed as model for whole of humanity.

I specially acknowledge the help the encouragement, endless love and prayers of my family specially my loving and caring Mother and Father, which have always been a source of inspiration and guidance for me all the way, whose invaluable prayers, salutary advices and emboldening attitude kept my spirit alive to reach this milestone.

I am especially indebted to my thesis supervisor Sir Jahangir Khan, and all the respected teachers of department of Earth & Environmental Sciences Bahria University Karachi for giving me an initiative to this study. Their inspiring guidance, dynamic supervision and constructive criticism enabled me to complete this thesis work.

I am extremely thankful to all my class mates especially Salman Shahzad, Farhan Hameed, Adnan Tanoli, Taimur Tahir, Umair Hussain, Faisal Navaid and Shayyan Korrani for their moral support and respect given to me during the BS, their help, discussions and comments in completing this dissertation and showing with me unforgettable and ever lasting memories which we had in the University.

I am very thankful to the whole faculty of my department whose valuable knowledge, assistance, cooperation and guidance enabled me to take initiative, develop and furnish my academic carrier.

I am very thankful of my great seniors especially Furqan-uddin-khan who is a source of inspiration for me and always guide and help me in the time of hardship. I am also thankful to all my class fellows for their support during the BS. They helped me a lot and I can't forget them.

Zubair Ahmed Khan

Abstract

The context of my thesis/project 'Vertical Seismic Profiling (VSP)' comprises on several aspects such as acquisition, processing and interpretation. In which I sequentially discuss the basic concepts of Vertical Seismic Profiling, its historical background and the objectives of my thesis. Then I briefly discuss the basic concepts of seismic fundamentals and its various components, elastic properties of solids, elastic moduli's, seismic waves, its types, its propagation procedures, reflection, refraction, attenuation of seismic waves and the fundamentals laws of seismic. Then I discuss the acquisition geometries and processing procedures of Vertical Seismic Profiling. Finally, I discuss the 3D VSP as a useful tool for mining exploration. And at end I gave the conclusion of my thesis project.

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