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Abstract—The abstract goes here.

Index Terms—IEEE, IEEEtran, journal, L^AT_EX, paper, template.

I. INTRODUCTION

THE inversion seismic data for acoustic impedance is a frequently used technique because it offers several advantages: (1) it facilitates integrated interpretation, (2) stochastic inversion can improve data's vertical resolution, allowing subseismic features to be more precisely mapped, and (3) it optimizes the correlation between seismic and petrophysical properties of the reservoir.

Results from a typical post-stack or pre-stack seismic inversion are band-limited primarily due to missing low and high frequencies in the wavelet [1].

The limited vertical resolution in the conventional seismic data is because the frequency of the data is limited in both the low frequencies and the high frequencies. The inversion process can add low frequencies to the seismic spectrum through the constraint model.

The deterministic inversion approaches are normally chapter in terms of computational time and storage. However, the vertical resolution remains constrained by the seismic bandwidth [2]. Deterministic inversion is mainly useful for deriving general trends and highlighting large features in an exploratory stage. Thus, the high frequencies incorporation, once they are related to subseismic informations [2].

On the other hand, stochastic inversion uses random variation of parameters to create data with vertical resolution that is superior to the conventional data. When working with multiple realizations, selecting the model best characterizes the reservoir is difficult, since all of them are equally probable. Uniqueness problems are an issue mainly addressed by calculating the mean of different realizations. However, it is been proved that the mean solution is closer to a bandwidth limited solution, in such a way that the high frequencies characteristics are lost [3]. I wish you the best of success.

mds

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A. Subsection Heading Here

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II. CONCLUSION

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APPENDIX A

PROOF OF THE FIRST ZONKLAR EQUATION

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APPENDIX B

Appendix two text goes here.

ACKNOWLEDGMENT

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Michael Shell Biography text here.

John Doe Biography text here.

Jane Doe Biography text here.