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INTRODUCTION

- With the help of Schlumberger we were going to make our senior project an "Integration of Surface Seismic with Geoelectric data"
- From this we would like to accomplish:
- 1. Acquiring as much knowledge about the subsurface.
- 2. See the relation between Refraction and Geo-electric method.

LOCATION

► The area that we agreed on doing the experiment in, is Dhahran Techno Valley.

It lies over the proven Dammam reservoir.

By knowing the weathering layers properties over this region it could help in reflection seismic "static correction".











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Processing

- Then next was to pick the first breaks.
- Using SeisOPT Picker we were able to get the first arrivals.
- It was difficult to find the first break when the shot was furthest from the sand.





Interpretation

- First model that we obtain has its parameters automatically calculated.
- Then we run it 10 more times while changing 1 of the parameters.
- Finally we take the 3 least error models.







Conclusion

- Using two geophysical methods proves to be very useful in interpreting the subsurface.
- The quality of the interpretation was affected by the field setup and geometry.
- There were many models but we chose the one that agreed with the surface geology seen during the acquisition phase.



Acknowledgments

