

The Use of Seismic Data in Industry

5 Hour AGENDA

Day 1 either morning with a lunch break or afternoon (1:00 to 6:00)

Lecture 5 – The Seismic Method	8:30
Exercise 5a – An Inclined Reflector	8:45
Exercise 5b – Imaging an Anticline	9:00
Lecture 6 – Seismic Reflections	1:25
Exercise 6a – Calculating Reflection Coefficients	9:50
Break	10:10
Exercise 6b – Calculating Frequency & Wavelength	10:20
Exercise 6c – Modeling a Seismic Trace	10:35
Lecture 9 – Seismic Resolution	11:05
Exercise 9a – Calculating Vertical Resolution	11:20
Lecture 9 – Seismic Resolution (continued)	11:35
Exercise 9b – Calculating Lateral Resolution	11:50
LUNCH	12:15
Lecture 7 - Overview of Seismic Interpretation	1:15
Exercise 10a – Interpreting a Seismic Line	1:40
ADJOURN	2:30

The above short course agenda was developed for geology and geophysics students that have not had much exposure to how geoscience is applied in industry. It can be tailored for undergraduate juniors and seniors or graduate students. The agenda can be modified to meet specific needs and time constraints. Contact the visiting geoscientist Fred Schroeder at fred.w.schroeder@exxonmobil.com to discuss options.