

**King Saud University**  
**Dept. of Geology & Geophysics**  
**GPH 221 – Seismic Exploration**  
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**Date Due: Tuesday, 8/12/2015**

**SEISMIC COMPUTING (5)**

1. The following table represents the data obtained during a reflection survey. Plot the travel time curve and calculate the average velocity and the depth of the reflector.

<b>Distance (ft)</b>	<b>Time (sec)</b>
1000	0.373
2000	0.472
3000	0.602
4000	0.747
5000	0.900
6000	1.056
7000	1.216
8000	1.377
9000	1.540
10000	1.703

2. Plot the seismic data given in the following table and speculate on the nature of the interface and interpret as far as you can.

<b>Distance (m)</b>	<b>Time (sec)</b>
-5000	1.433
-4000	1.388
-3000	1.353
-2000	1.332
-1000	1.323
0	1.328
1000	1.347
2000	1.377
3000	1.420
4000	1.473
5000	1.537
6000	1.609
7000	1.688
8000	1.775