Problem set #2, Fall 2006

l. The first arrivals for four refraction lines are in the table below. Interpret, as best you can, the velocities and depth to the interface for each case, plot them on the map, and contour the buried surface. Times are in milliseconds, give velocities in meters/second.

A				B				C				D		
x	Td	Tr		x	Td	Tr		x	Td	Tr		x	Td	Tr
meters	msecs	msecs		meters	msecs	msecs		meters	msecs	msecs		meters	msecs	msecs
0	0			0	0			0	0			0	0	
3	3.0	11.1		3	3	14.5		3	3	11.2		3		
6	6.2	13.0		6				6				6		
9				9	9	18.2		9	9.1	15		9		
12				12	12	20		12				12	12	10.2
15	15.0	18		15				15				15	15.5	12
18				18	18	23		18	18.6	20.1		18		
21				21				21	21.5	22		21		
24	25.0	23		24	24.5	26.7		24				24	24.8	17
27				27				27				27		
30				30				30	30.6	26.9		30		
33				33				33				33	33.9	22.2