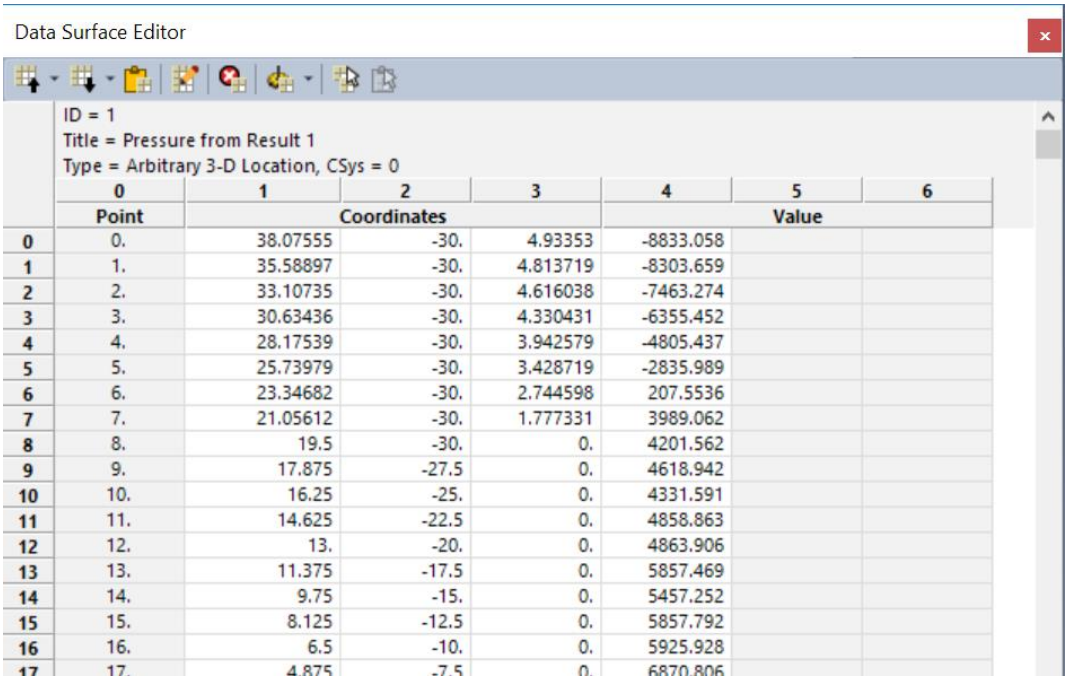
For this API the data should be setup as follows. Each row is a point location with the data following. Column 1, 2 and 3, are the X, Y and Z coordinates of the points, respectively. Each column after that is a results set of scalar output data. When running the API, the user will be prompted to select a CSV file. After selecting the file the user must then enter how many sets of data they want to import. In the example below the user would enter 3. Each result set will create an Arbitrary 3-D Data Surface in FEMAP. Note: the actual csv file should not include the headers of the columns. It should be strictly data.

After the data is read and the Arbitrary 3-D Data Surfaces are created, the user can then apply these to create mapped loads.

X	Y	Z	Results Set 1	Results Set 2	Results Set 3
38.07555	-30	4.93353	-8833.058	-9062.314	-9388.363
35.58897	-30	4.813719	-8303.659	-8512.518	-8837.076
33.10735	-30	4.616038	-7463.274	-7638.081	-7967.126
30.63436	-30	4.330431	-6355.452	-6480.412	-6826.642
28.17539	-30	3.942579	-4805.437	-4866.034	-5221.28
25.73979	-30	3.428719	-2835.989	-2837.441	-3145.619
23.34682	-30	2.744598	207.5536	223.4698	173.9024
21.05612	-30	1.777331	3989.062	3972.431	4378.449
19.5	-30	0	4201.562	4170.327	4624.724

Data Surface created from column 4 result set 1:



	0	1	2	3	4	5	6
	Point	Coordinates			Value		
0	0.	38.07555	-30.	4.93353	-8833.058		
1	1.	35.58897	-30.	4.813719	-8303.659		
2	2.	33.10735	-30.	4.616038	-7463.274		
3	3.	30.63436	-30.	4.330431	-6355.452		
4	4.	28.17539	-30.	3.942579	-4805.437		
5	5.	25.73979	-30.	3.428719	-2835.989		
6	6.	23.34682	-30.	2.744598	207.5536		
7	7.	21.05612	-30.	1.777331	3989.062		
8	8.	19.5	-30.	0.	4201.562		
9	9.	17.875	-27.5	0.	4618.942		
10	10.	16.25	-25.	0.	4331.591		
11	11.	14.625	-22.5	0.	4858.863		
12	12.	13.	-20.	0.	4863.906		
13	13.	11.375	-17.5	0.	5857.469		
14	14.	9.75	-15.	0.	5457.252		
15	15.	8.125	-12.5	0.	5857.792		
16	16.	6.5	-10.	0.	5925.928		
17	17.	4.875	-7.5	0.	6870.806		