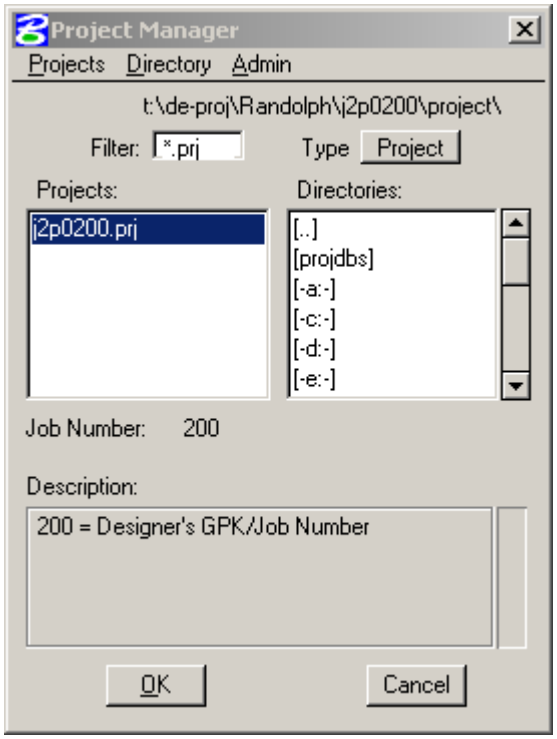
1) Open T:\de-proj\Randolph\J2P0200\Data**route63_xs_j2p0200.dgn**

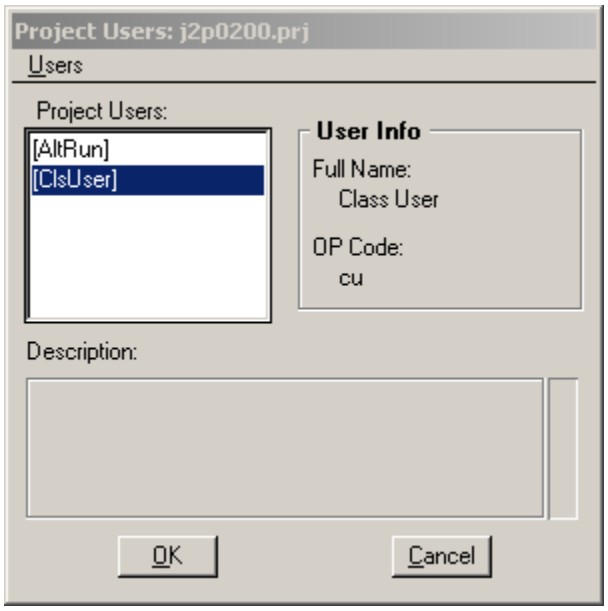
2) Select the Project Manager and navigate to the following folder:

T:\de-proj\Camden\J5P0590\project folder

Make sure the job number is set to the Designer's GPK/Job number of **200**

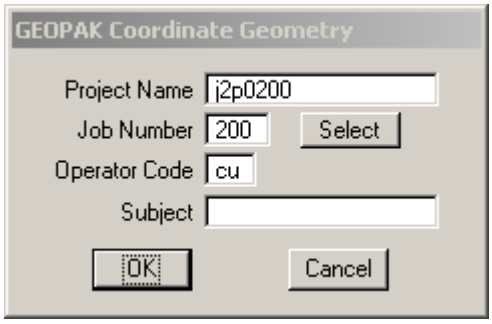


3) Select "**ClsUser**" as the Project User.

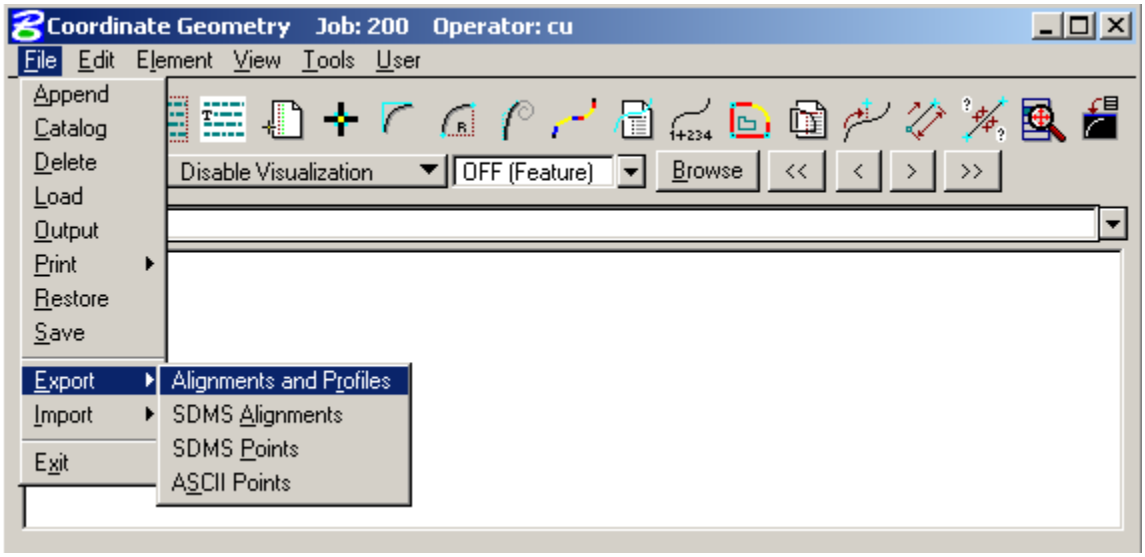


4) Next we need to create a chain file (CH file) that contains the alignment information for Route 63. To do this we need to open Coordinate Geometry. To open up Coordinate Geometry select the following:

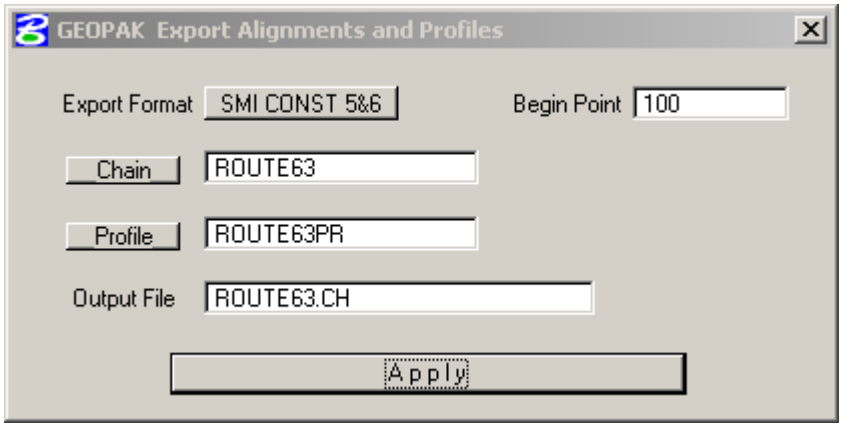
Applications > GeoPak Survey > Geometry > Coordinate Geometry



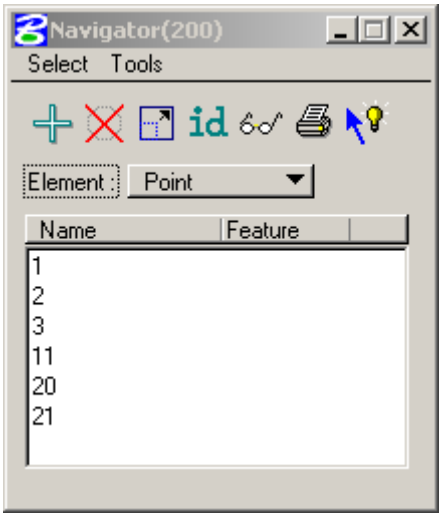
5) Once in Coordinate Geometry select **File > Export > Alignments and Profiles**



6) In the Export Dialog set the following fields: Begin Point, Export Format, Chain, Profile, and the name of the Output file.



Begin Point = A point that has not been used and is available in COGO. Open Navigator to see what points have not been used.



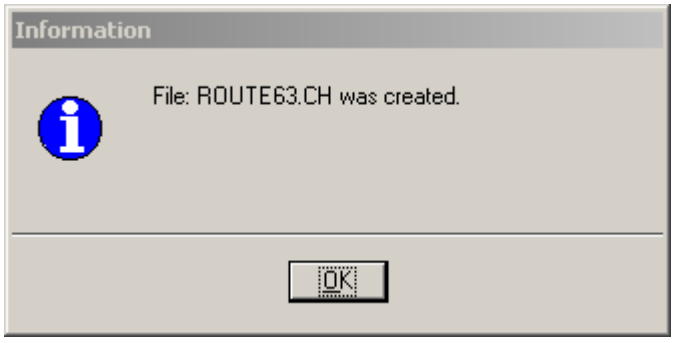
Export Format = SMI CONST 5&6 will work with the current SMI version (Version 8).

Chain = The Baseline of the Cross Sections that you're wanting to create a template for.

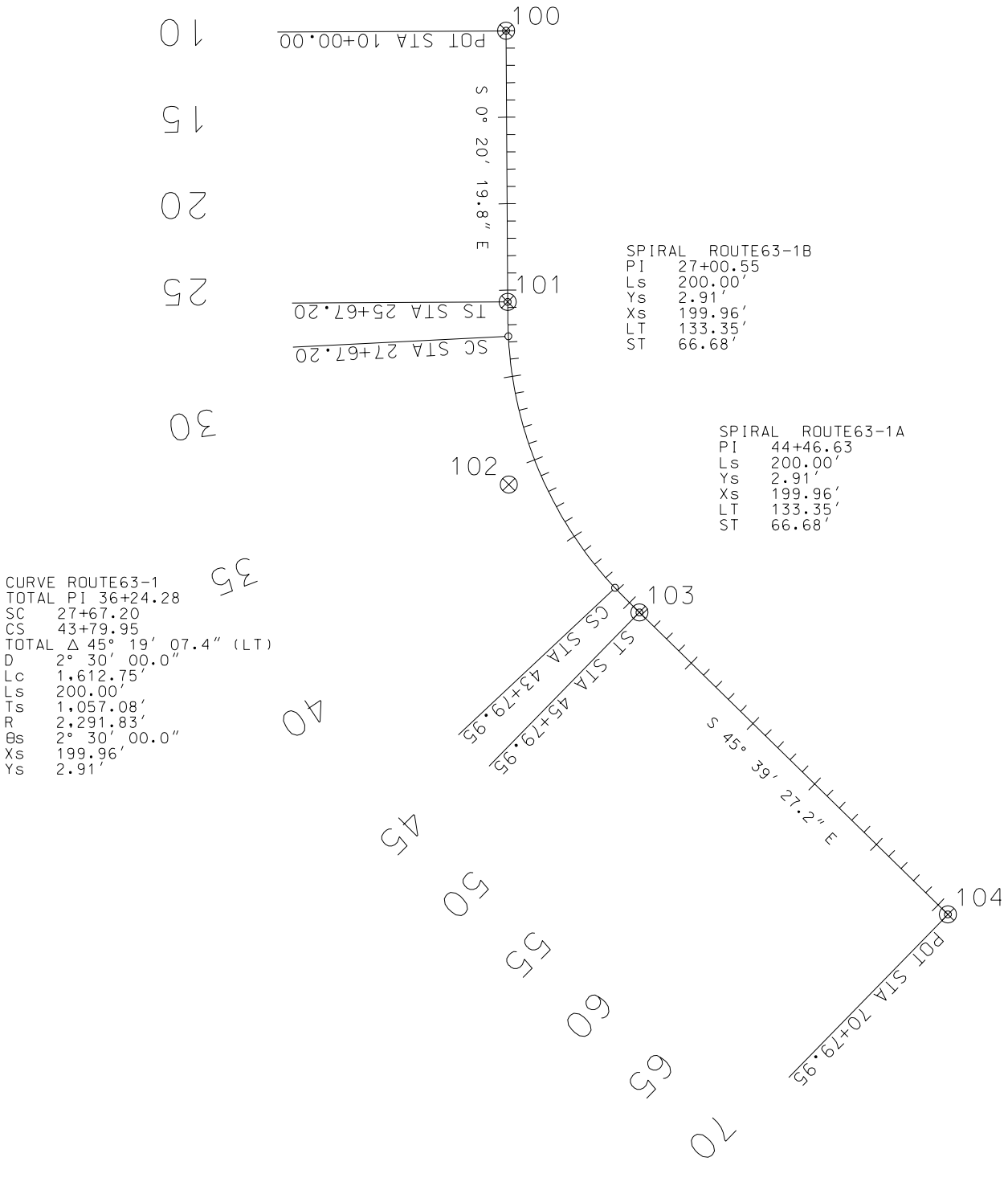
Profile = Proposed profile that is associated to the Chain/Profile. (**Optional**)

Output Format = Name of the chain file that you want to create. This will be the file that will be imported into your calculator.

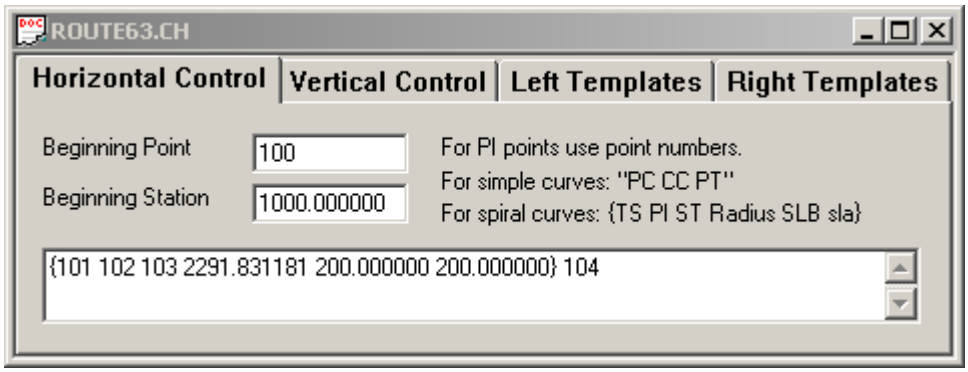
7) When the "**Apply**" button is selected GeoPak will show you the following Dialog:

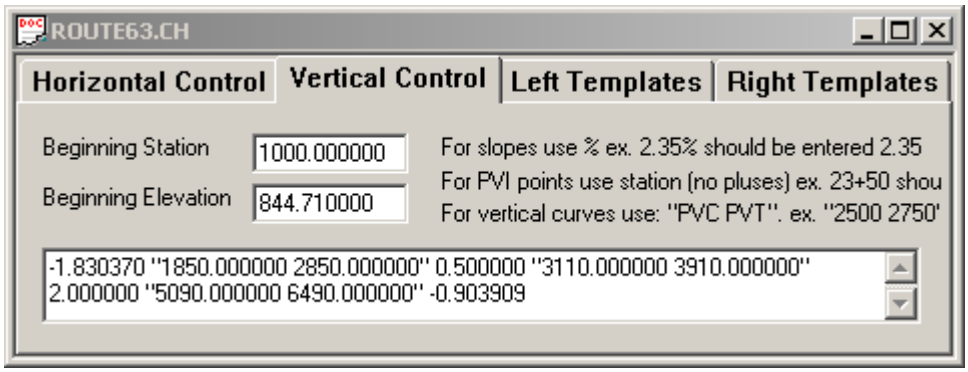


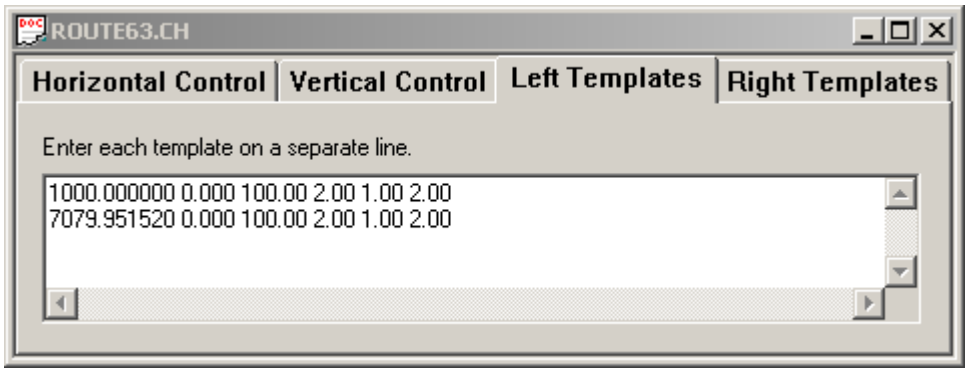
8) Below is a view of the points that GeoPak created for the Route63.CH file.

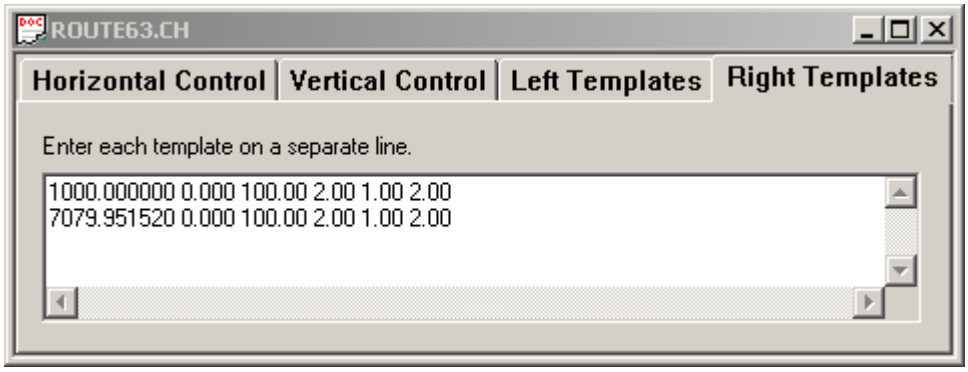


9) Below is the view of the Route63.CH file in SMI Transfer.

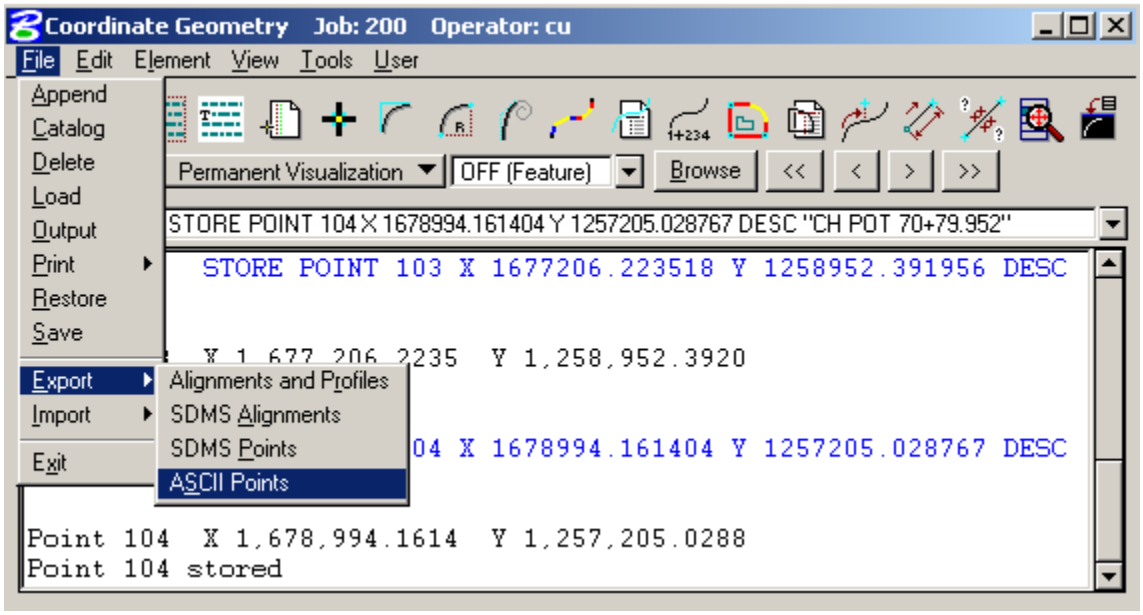




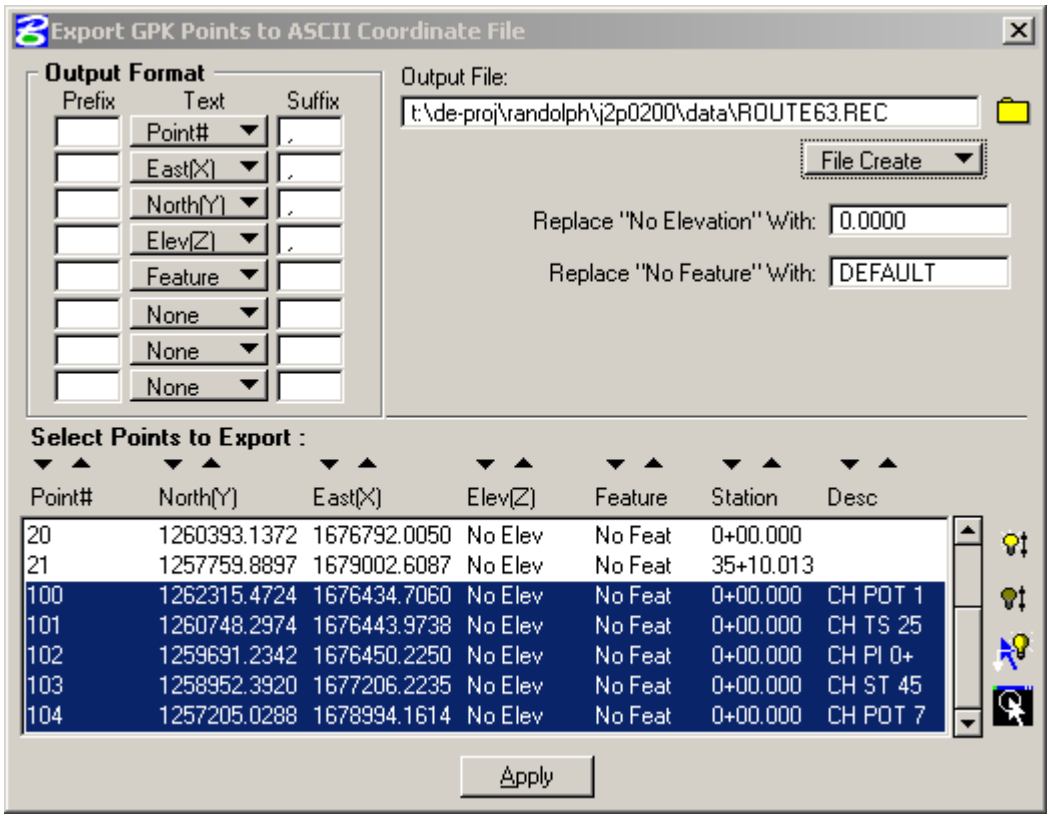




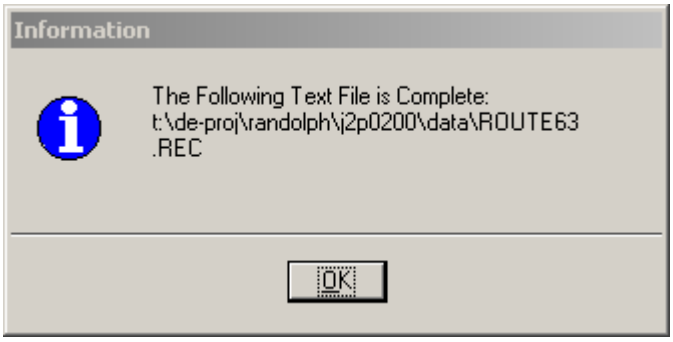
10) Next we need to export the control points.



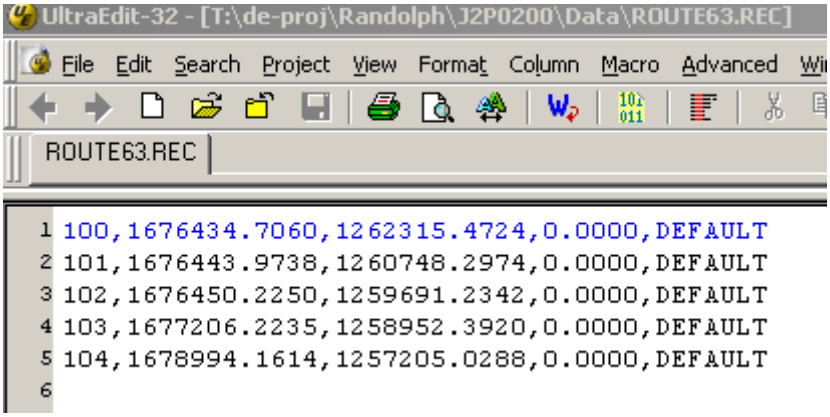
11) Fill out the "Export GPK Point to ASCII Coordinate File" Dialog as follows:



12) When you hit **Apply** you'll get the following dialog:



13) Below is what the Rout63.REC file looks like in text editor.

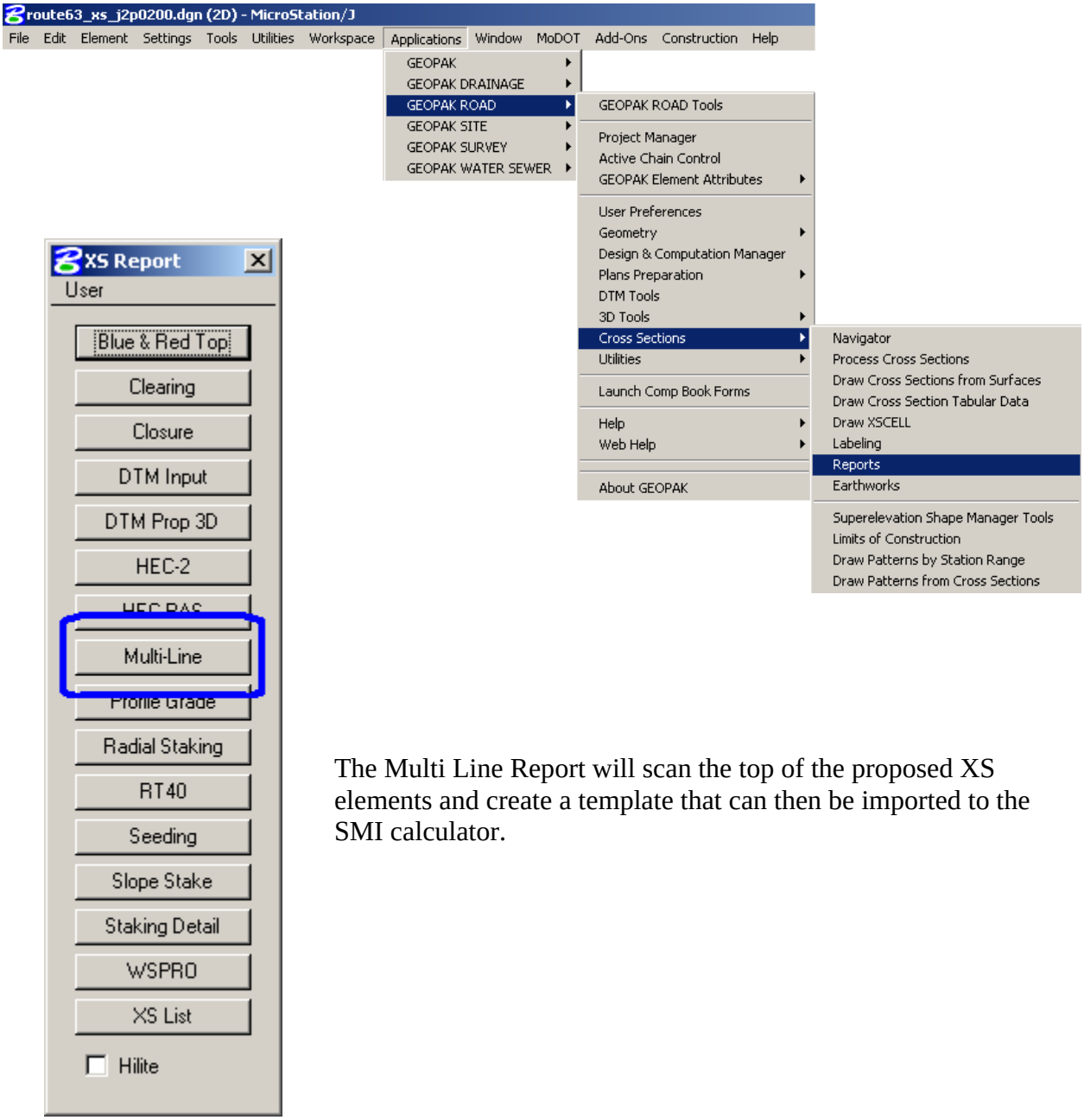


14) Next we'll Export Template information from a GeoPak Cross Section file using the Multi Line Report located in the Reports & XS Quantities.

** You'll need to be in a XS file and in Project Manager in order to run XS Reports.

To access the Reports and Quantities dialog select the following:

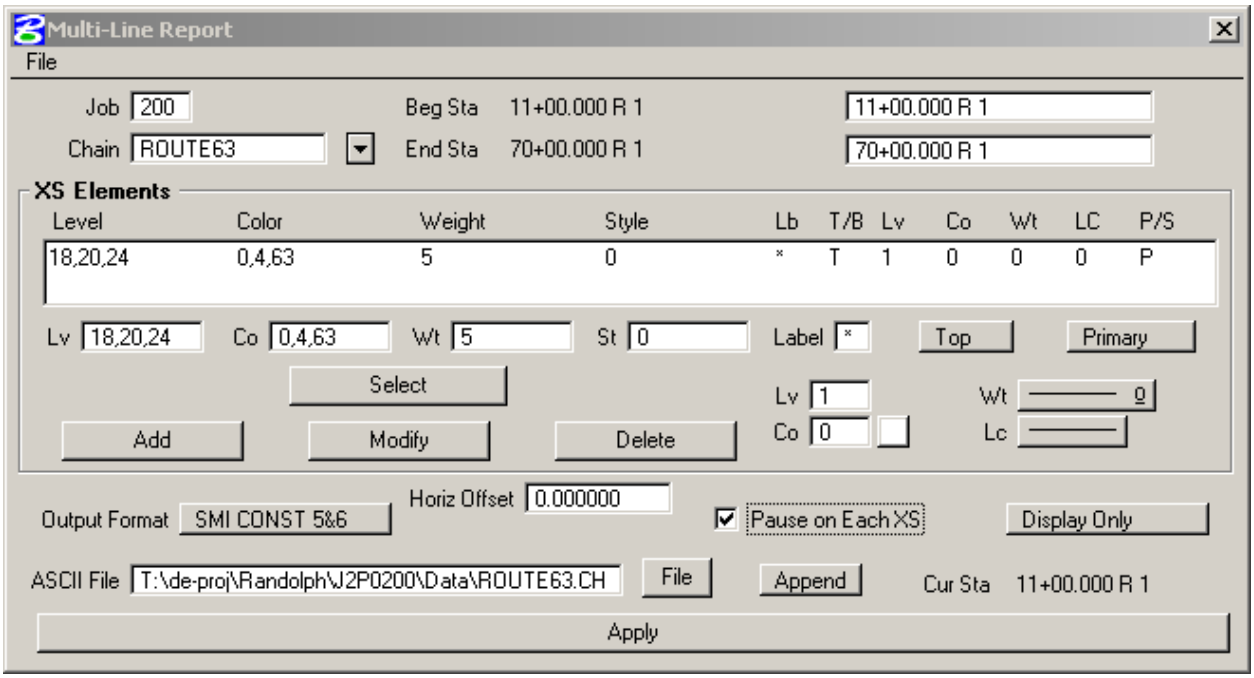
Applications > GeoPak Road > Cross Sections > Reports



The Multi Line Report will scan the top of the proposed XS elements and create a template that can then be imported to the SMI calculator.

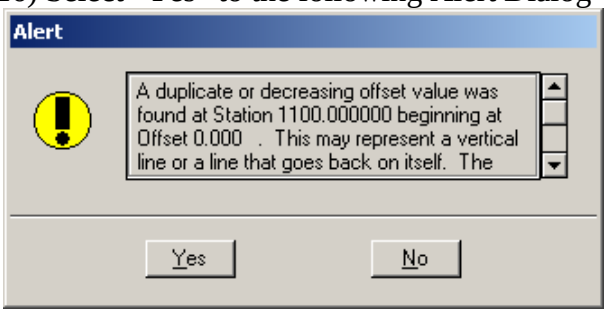
15) Adjust the following setting:

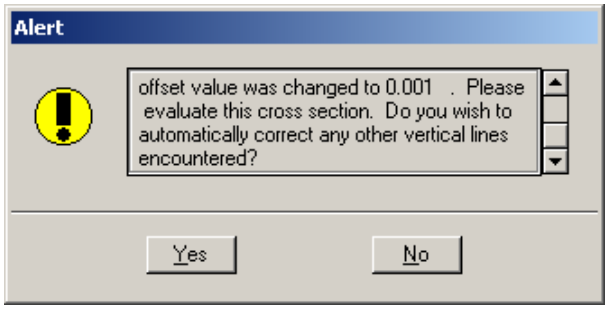
Station Range	**11+00 to 70+00**	Level	**18,20,24**
Color	**0,4,63**	Weight	**5**
Style	**0**	T/B (Top/Bottom)	**T**
P/S (Primary/Secondary)	**P**	Output format	**SMI Const 5&6**
ASCII File	**Route63.ch**	Create/New	**Append file**



* * * Before you Apply (process) the report make sure the ASCII (CH) file has the same name that was used in the exported of the Alignment and Profile data (Step 1). Also make sure Append is selected.

16) Select "Yes" to the following Alert Dialog





17) View Left and Right Template information in the SMI Transfer (See Below).

Left Template is Below

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	**Station**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**
2	1100	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
3	1200	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
4	1300	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
5	1400	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	6	580.36	4	6	0.01	6
6	1500	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	6	649.94	4	6	0.01	6
7	1600	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	6	643.36	4	6	0.01	6
8	1700	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
9	1800	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
10	1900	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
11	2000	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
12	2100	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
13	2200	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
14	2300	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
15	2400	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
16	2500	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
17	2600	0	3.3	18.18	22.7	-1.18	4	-1.18	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
18	2700	0	1.896	18.18	24.104	-4.78	4	-4.78	12	-4.78	12	-4.78	10	-16.67	24	0	8	2	0.01	2
19	2800	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
20	2900	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
21	3000	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
22	3100	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
23	3200	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
24	3300	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
25	3400	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
26	3500	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
27	3600	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
28	3700	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
29	3800	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
30	3900	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
31	4000	0	0.832	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	0	8	2	0.01	2
32	4100	0	0	0	0.831	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	2	0.01	2
33	4200	0	0	0	0.831	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	2	0.01	2
34	4300	0	0	0	0.831	18.18	25.168	-7.2	4	-7.2	12	-7.2	12	-7.2	10	-16.67	24	2	0.01	2
35	4400	0	0	0	1.15	18.18	24.849	-6.48	4	-6.48	12	-6.48	12	-6.48	10	-16.67	24	2	0.01	2
36	4500	0	0	0	2.733	18.18	23.266	-2.88	4	-2.88	12	-2.88	12	-2.88	10	-16.67	24	2	0.01	2
37	4600	0	0	0	3.832	18.18	22.167	1.24	4	1.24	12	-2	12	-2	10	-16.67	24	2	0.01	2
38	4700	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
39	4800	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
40	4900	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
41	5000	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
42	5100	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
43	5200	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
44	5300	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
45	5400	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
46	5500	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
47	5600	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
48	5700	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
49	5800	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
50	5900	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
51	6000	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
52	6100	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
53	6200	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
54	6300	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
55	6400	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
56	6500	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
57	6600	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
58	6700	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
59	6800	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
60	6900	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
61	7000	0	4	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2

18) View Left and Right Template information in the SMI Transfer (See Below).

Right Template is Below

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	**Station**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**	**Dist.**	**Slope**
2	1100	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
3	1200	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
4	1300	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
5	1400	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
6	1500	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
7	1600	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
8	1700	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
9	1800	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
10	1900	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
11	2000	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
12	2100	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
13	2200	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
14	2300	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
15	2400	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
16	2500	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
17	2600	0	0.001	0	3.999	18.18	22	2	4	2	12	1.18	12	1.18	10	-16.67	24	0	8	2	0.01	2
18	2700	0	0.001	0	3.999	18.18	22	4.78	4	4.78	12	4.78	12	4.78	10	-16.67	24	0	8	2	0.01	2
19	2800	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
20	2900	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
21	3000	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
22	3100	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
23	3200	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
24	3300	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
25	3400	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
26	3500	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
27	3600	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
28	3700	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
29	3800	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
30	3900	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
31	4000	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
32	4100	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
33	4200	0	0.001	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	0	8	2	0.01	2
34	4300	0	0	0	0	0	3.999	18.18	22	7.2	4	7.2	12	7.2	12	7.2	10	-16.67	24	2	0.01	2
35	4400	0	0	0	0	0	3.999	18.18	22	6.48	4	6.48	12	6.48	12	6.48	10	-16.67	24	2	0.01	2
36	4500	0	0	0	0	0	3.999	18.18	22	2.88	4	2.88	12	2.88	12	2.88	10	-16.67	24	2	0.01	2
37	4600	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-1.24	12	-1.24	10	-16.67	24	2	0.01	2
38	4700	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
39	4800	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
40	4900	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
41	5000	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
42	5100	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
43	5200	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
44	5300	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
45	5400	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
46	5500	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
47	5600	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
48	5700	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
49	5800	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
50	5900	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
51	6000	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
52	6100	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
53	6200	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
54	6300	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
55	6400	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
56	6500	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
57	6600	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
58	6700	0	0	0	0	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	2	0.01	2
59	6800	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
60	6900	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2
61	7000	0	0.001	0	3.999	18.18	22	2	4	2	12	-2	12	-2	10	-16.67	24	0	8	2	0.01	2