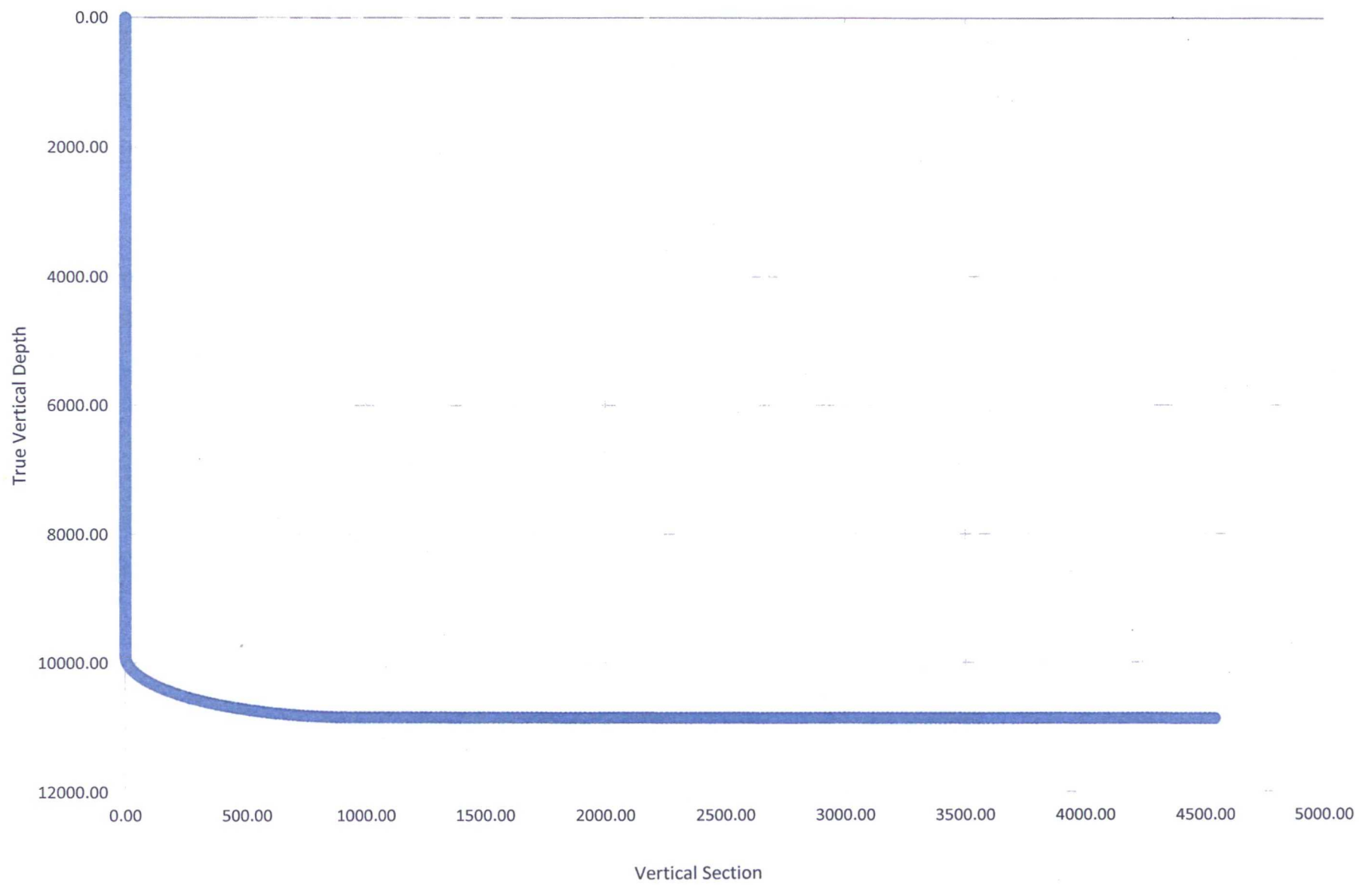


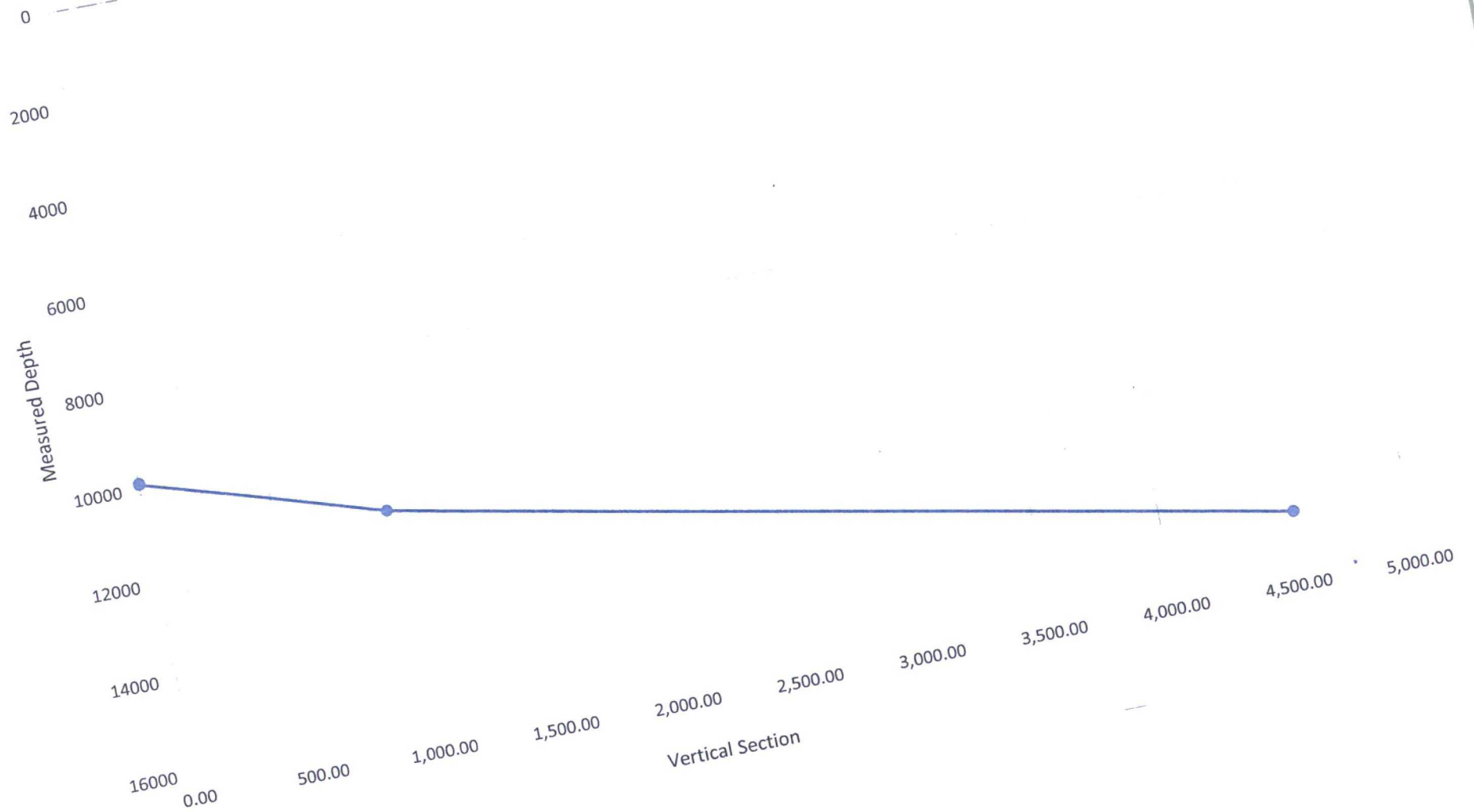
Lea Fed 10 3H HORIZONTAL WELLBORE SAMPLE								Notes
MD	Inc	Az	TVD	N	E	DLS	V/S	
ft	deg	deg	ft	ft	ft	deg/100'	ft	
0	0	0	0.00	0.00	0.00			
9,880	0	0	9,880.00	0.00	0.00	0.00	0.00	
9,900	1.2	180.6	9,900.00	-0.21	0.00	6.00	0.21	
11,380	89.5	180.6	10,835.00	-954.90	10.00	6.00	954.95	Intersection of Green sand
14,960	89.5	180.6	10,866.00	-4,534.50	47.50	0.00	4,534.90	Wellbore dipping with sand


 27 Oct 2016

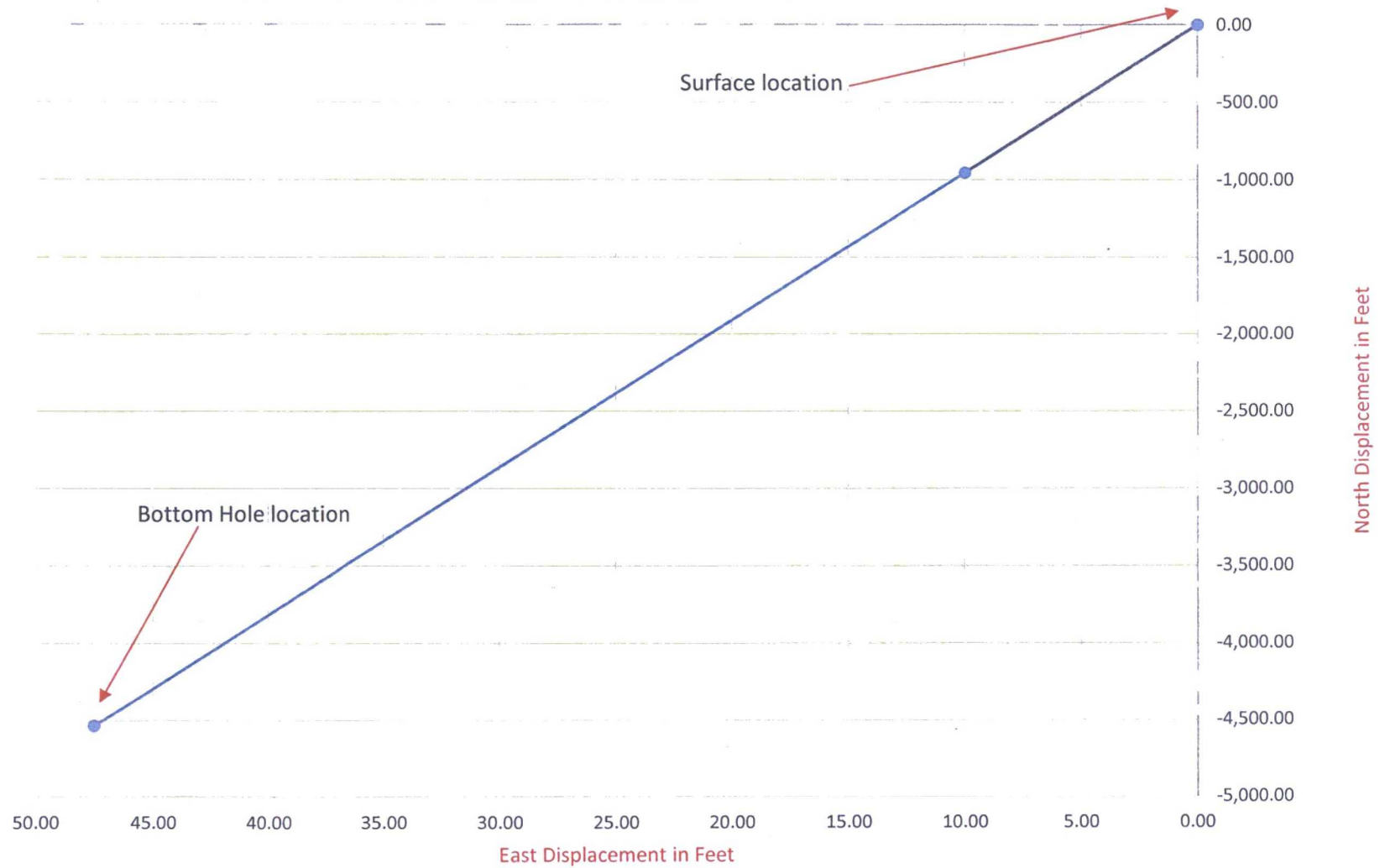
Lea 10 Fed 3H - Horizontal Well



Lea Fed 3H
Vertical Section against Measured Depth
HORIZONTAL WELLBORE EXAMPLE



Lea 10 Fed 3H
Plan View
HORIZONTAL WELLBORE EXAMPLE



1 10 Fed 3H NE/NW 10-205-34E 3637.8

und Level

ly Bushing

sea Wolfcamp top

D Wolfcamp top 10912.8 top

sea 3rd Bone Spring top 10835 btm

D 3rd Bone Spring green intersection at 10833 7/8 landin 10866 btm

D 3rd Bone Spring green horizontal TD at 10864

lid 6 Degree per 100 Feet

x (East)	y (North)	x (East)	y (North)
636152.9	3607179	2086581.3	11831547.5
636152.9	3607179	2086581.3	11831547.5
636167.1	3605797	2086628.0	11827015.4

Ground Location

Bottom Hole

14.23 -1381.72

2086629.0

46.7 -4532.0

E/W N/S

2086581.3

11831547.5

2086581.3

11831547.5

2086581.3

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11831547.5

2086581.3

11831547.5

2086581.3

11831547.5

+N/-S and +E/-W
s=c/a
W
N
VS
Sine
o
a
h

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TVD and Vertical Section
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12 deg/100

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14520.00	89.50	180.60	10863.31	4194.82	-4194.59	43.93			2086625.3	11827352.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14540.00	89.50	180.60	10863.48	4214.82	-4214.59	44.14			2086625.5	11827332.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14560.00	89.50	180.60	10863.66	4234.82	-4234.59	44.35			2086625.7	11827312.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14580.00	89.50	180.60	10863.83	4254.82	-4254.59	44.56			2086625.9	11827292.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14700.00	89.50	180.60	10864.01	4274.82	-4274.59	44.76			2086626.1	11827272.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14720.00	89.50	180.60	10864.18	4294.82	-4294.58	44.97			2086626.3	11827252.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14740.00	89.50	180.60	10864.36	4314.82	-4314.58	45.18			2086626.5	11827232.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14760.00	89.50	180.60	10864.53	4334.82	-4334.58	45.39			2086626.7	11827212.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14780.00	89.50	180.60	10864.70	4354.82	-4354.58	45.60			2086627.0	11827192.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14800.00	89.50	180.60	10864.88	4374.82	-4374.58	45.81			2086627.2	11827172.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14820.00	89.50	180.60	10865.05	4394.82	-4394.57	46.02			2086627.4	11827152.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14840.00	89.50	180.60	10865.23	4414.81	-4414.57	46.23			2086627.6	11827132.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14860.00	89.50	180.60	10865.40	4434.81	-4434.57	46.44			2086627.8	11827112.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14880.00	89.50	180.60	10865.58	4454.81	-4454.57	46.65			2086628.0	11827092.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14900.00	89.50	180.60	10865.75	4474.81	-4474.57	46.86			2086628.2	11827072.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14920.00	89.50	180.60	10865.93	4494.81	-4494.56	47.07			2086628.4	11827052.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14940.00	89.50	180.60	10866.10	4514.81	-4514.56	47.28			2086628.6	11827032.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14960.00	89.50	180.60	10866.28	4534.81	-4534.56	47.49			2086628.8	11827012.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
14980.00	89.50	180.60	10866.45	4554.81	-4554.56	47.70			2086629.0	11826992.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15000.00	89.50	180.60	10866.62	4574.81	-4574.56	47.91			2086629.3	11826972.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15020.00	89.50	180.60	10866.80	4594.81	-4594.56	48.12			2086629.5	11826952.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15040.00	89.50	180.60	10866.97	4614.81	-4614.55	48.33			2086629.7	11826932.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15060.00	89.50	180.60	10867.15	4634.81	-4634.55	48.53			2086629.9	11826912.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15080.00	89.50	180.60	10867.32	4654.81	-4654.55	48.74			2086630.3	11826892.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15100.00	89.50	180.60	10867.50	4674.80	-4674.55	48.95			2086630.5	11826872.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15120.00	89.50	180.60	10867.67	4694.80	-4694.55	49.16			2086630.7	11826852.9	0.00	0.00	0.010	0.209	19.998	19.999	89.5	20.000	20.000	89.500	19.999	0.175	19.999	0.105	100.000	954.930	477.465
15140.00	89.50	180.60	10867.85	4714.80					2086630.9		0.00	0.00	#REF!	#REF!	19.999		89.5	20.000	20.000	89.500		0.175	19.999	0.105	100.000	954.930	477.465