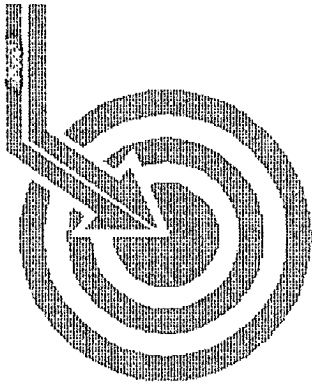




Scientific Drilling

Lot 3/Unit F-1-11s-33e, 109/N & 1579/W
Lot 3/Unit F-1-11s-33e, 755/N & 2014/W
API #30-025-37571

CHESAPEAKE OPERATING, INC.

Field: Inbe Permo
Site: Lea County, NM
Well: Klein 1 Fed #1
Wellpath: VH - Job #32K1205943
Survey: 12/26/05

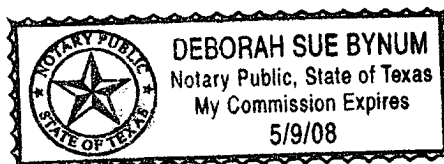


This survey is correct to the best of my knowledge
and is supported by actual field data.

Deborah Sue Bynum.....Company Representative

Notorized this date 8th of February, 2005.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

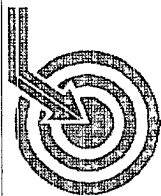
Company: CHESAPEAKE OPERATING, INC.
 Field: Inbe Permo
 Site: Lea County, NM
 Well: Klein 1 Fed #1
 Wellpath: VH - Job #32K1205943

Date: 02/08/2006 Time: 11:41:48 Page: 1
 Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,262.63Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 12/26/05 Start Date: 12/26/2005
 Company: Scientific Drilling Internatio Engineer: Carter w/Gray
 Tool: Keeper;Keeper Gyro Tied-to: From Surface

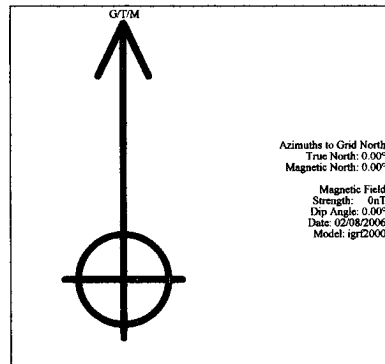
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.37	254.10	100.00	0.32	-0.09	-0.31	0.37	0.32	254.10
200.00	0.35	300.16	200.00	0.88	-0.02	-0.89	0.28	0.89	268.48
300.00	0.44	238.89	300.00	1.47	-0.07	-1.48	0.41	1.48	267.35
400.00	0.66	245.29	399.99	2.38	-0.51	-2.33	0.23	2.38	257.71
500.00	0.63	241.45	499.98	3.44	-1.01	-3.34	0.05	3.49	253.14
600.00	0.60	249.81	599.98	4.46	-1.45	-4.31	0.09	4.55	251.35
700.00	0.63	240.75	699.97	5.48	-1.90	-5.28	0.10	5.61	250.18
800.00	0.49	257.73	799.97	6.42	-2.26	-6.18	0.22	6.58	249.88
900.00	0.56	264.57	899.96	7.33	-2.40	-7.08	0.09	7.48	251.28
1000.00	0.69	263.18	999.96	8.42	-2.52	-8.17	0.13	8.55	252.86
1100.00	0.75	255.95	1099.95	9.68	-2.75	-9.40	0.11	9.79	253.70
1200.00	0.55	263.26	1199.94	10.81	-2.96	-10.51	0.22	10.92	254.25
1300.00	0.45	258.56	1299.94	11.68	-3.10	-11.37	0.11	11.79	254.76
1400.00	0.54	281.03	1399.94	12.52	-3.09	-12.22	0.21	12.60	255.83
1500.00	0.72	265.43	1499.93	13.59	-3.05	-13.31	0.25	13.65	257.11
1600.00	0.69	272.10	1599.92	14.81	-3.07	-14.54	0.09	14.86	258.06
1700.00	0.65	249.58	1699.92	15.96	-3.25	-15.67	0.26	16.00	258.29
1800.00	0.76	261.53	1799.91	17.17	-3.55	-16.86	0.18	17.23	258.12
1900.00	0.35	264.86	1899.90	18.14	-3.67	-17.82	0.41	18.19	258.36
2000.00	0.62	241.95	1999.90	18.95	-3.95	-18.60	0.33	19.02	258.01
2100.00	0.42	253.30	2099.90	19.82	-4.31	-19.43	0.22	19.90	257.49
2200.00	0.52	275.07	2199.89	20.63	-4.38	-20.23	0.20	20.70	257.79
2300.00	0.25	231.30	2299.89	21.26	-4.47	-20.85	0.38	21.33	257.89
2400.00	0.48	277.72	2399.89	21.85	-4.55	-21.44	0.36	21.92	258.01
2500.00	0.50	230.54	2499.89	22.62	-4.77	-22.19	0.39	22.70	257.86
2600.00	0.15	331.42	2599.88	23.04	-4.94	-22.59	0.55	23.12	257.67
2700.00	0.47	259.14	2699.88	23.49	-4.90	-23.06	0.45	23.57	258.00
2800.00	0.37	231.42	2799.88	24.18	-5.18	-23.71	0.22	24.27	257.68
2900.00	0.22	324.39	2899.88	24.55	-5.22	-24.08	0.44	24.64	257.76
3000.00	0.33	240.44	2999.88	24.90	-5.21	-24.44	0.38	24.99	257.97
3100.00	0.37	290.28	3099.88	25.46	-5.24	-24.99	0.30	25.53	258.16
3200.00	0.36	258.79	3199.87	26.06	-5.19	-25.60	0.20	26.12	258.54
3300.00	0.20	42.11	3299.87	26.24	-5.12	-25.79	0.53	26.30	258.77
3400.00	0.06	341.44	3399.87	26.11	-4.94	-25.69	0.18	26.16	259.12
3500.00	0.25	256.36	3499.87	26.34	-4.94	-25.92	0.25	26.39	259.21
3600.00	0.28	316.10	3599.87	26.70	-4.82	-26.30	0.27	26.74	259.62
3700.00	0.38	289.98	3699.87	27.14	-4.53	-26.78	0.18	27.16	260.40
3800.00	0.33	333.12	3799.87	27.53	-4.16	-27.23	0.27	27.54	261.32
3900.00	0.37	315.93	3899.87	27.82	-3.67	-27.58	0.11	27.82	262.42
3945.00	0.12	245.11	3944.87	27.96	-3.58	-27.73	0.78	27.96	262.63

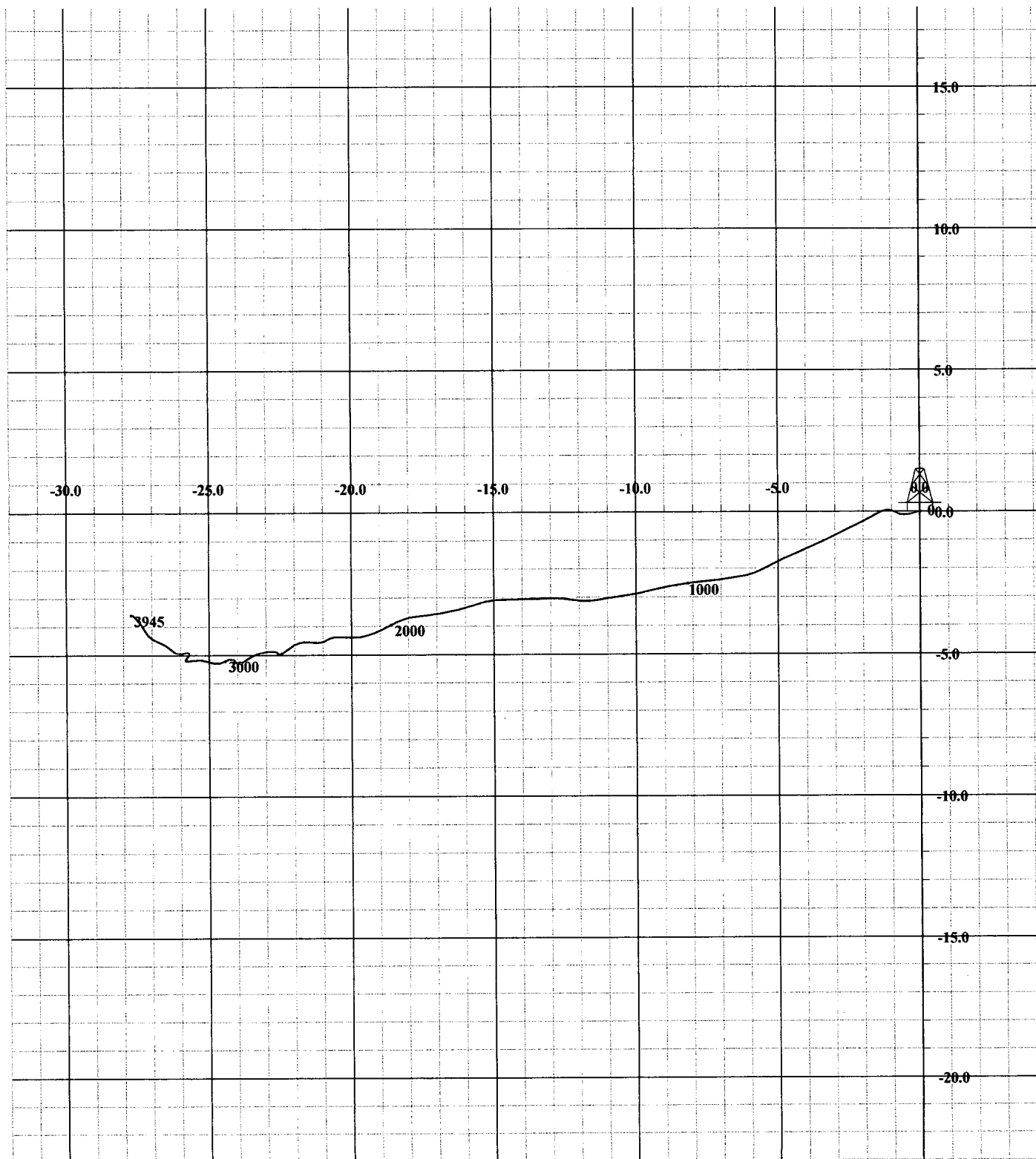


**Scientific
Drilling**

Field: Inbe Permo
Site: Lea County, NM
Well: Klein 1 Fed #1
Wellpath: VH - Job #32K1205943
Survey: 12/26/05



West(-)/East(+) [5ft/in]



South(-)/North(+) [5ft/in]

RECEIVED

FEB 27 2006

Job Number: Klein 1 Fed1
 Company: Chesapeake Operating
 Lease/Well: Klein 1 Fed 1
 Location: Lea Co. - Sec. 1-T11S-R33E
 Rig Name:
 RKB: 0.00 Ft
 Vertical Datum:

State/Country:
 Declination:
 Grid:
 Project name: Lea County
 Date/Time: 27-Jan-06 / 11:27
 Well Name: Klein 1 Fed1- Survey
 North Reference: True North
 Convergence: -0.8217°

WinSURV3D SURVEY CALCULATIONS
Minimum Curvature Method
 Vertical Section Plane 141.52°
 Vertical Section Referenced to Wellhead
 Local Coordinates Referenced to Structure Reference :
 EW=732825.99 Ft, NS=872222.89 Ft
 Direction referenced to True North

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
Gyro Tie In									
3945.00	0.12	245.11	3944.86	-3.58	-27.73	-14.45	27.96	262.64	0.00
3965.00	0.30	210.60	3964.86	-3.63	-27.78	-14.44	28.01	262.55	1.06
4026.00	1.40	116.60	4025.85	-4.11	-27.19	-13.71	27.50	261.41	2.38
4089.00	3.70	120.60	4088.79	-5.48	-24.75	-11.11	25.35	257.51	3.66
4153.00	5.20	134.80	4152.59	-8.58	-20.92	-6.30	22.61	247.70	2.89
4215.00	5.80	144.70	4214.31	-13.12	-17.11	-0.38	21.56	232.53	1.81
4276.00	6.20	151.00	4274.98	-18.51	-13.73	5.95	23.05	216.57	1.26
4340.00	7.30	148.30	4338.53	-25.00	-9.92	13.39	26.89	201.65	1.79
4402.00	8.00	151.40	4399.98	-32.13	-5.79	21.55	32.65	190.21	1.31
4465.00	8.70	155.50	4462.31	-40.32	-1.71	30.50	40.36	182.43	1.46
4527.00	8.80	155.60	4523.59	-48.91	2.19	39.65	48.95	177.43	0.16
4589.00	8.50	158.10	4584.89	-57.48	5.86	48.64	57.77	174.18	0.78
4652.00	8.80	154.40	4647.17	-66.14	9.68	57.80	66.85	171.68	1.00
4713.00	8.80	149.20	4707.45	-74.36	14.08	66.97	75.68	169.28	1.30
4776.00	8.50	149.60	4769.74	-82.51	18.91	76.36	84.65	167.09	0.49
4835.00	8.40	147.00	4828.10	-89.89	23.46	84.97	92.90	165.37	0.67
4900.00	9.30	141.60	4892.32	-97.99	29.31	94.94	102.28	163.35	1.88
4964.00	9.50	140.90	4955.46	-106.14	35.85	105.40	112.03	161.34	0.36
5026.00	9.30	141.30	5016.63	-114.02	42.21	115.52	121.58	159.68	0.34
5090.00	8.80	142.90	5079.83	-121.96	48.40	125.59	131.21	158.35	0.87
5153.00	8.60	141.80	5142.11	-129.50	54.22	135.12	140.40	157.28	0.41
5217.00	8.40	145.50	5205.41	-137.12	59.82	144.56	149.60	156.43	0.91
5280.00	8.00	145.30	5267.76	-144.51	64.93	153.53	158.43	155.81	0.64
5342.00	8.30	142.60	5329.14	-151.62	70.10	162.31	167.04	155.19	0.78
5405.00	8.00	144.50	5391.50	-158.80	75.41	171.23	175.79	154.60	0.64
5469.00	8.50	139.90	5454.84	-166.04	81.04	180.41	184.76	153.98	1.29
5532.00	9.60	139.80	5517.05	-173.62	87.43	190.31	194.39	153.27	1.75
5595.00	10.10	139.80	5579.12	-181.85	94.39	201.09	204.88	152.57	0.79
5658.00	9.30	141.10	5641.22	-190.03	101.15	211.70	215.27	151.97	1.32
5722.00	9.10	143.60	5704.40	-198.13	107.40	221.93	225.36	151.54	0.70

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
5786.00	9.20	137.40	5767.59	-205.97	113.87	232.09	235.35	151.06	1.55
5849.00	9.30	130.70	5829.77	-212.99	121.14	242.11	245.03	150.37	1.72
5912.00	8.40	132.70	5892.02	-219.43	128.38	251.66	254.23	149.67	1.51
5974.00	8.90	129.00	5953.31	-225.52	135.43	260.82	263.06	149.01	1.21
6037.00	8.70	126.30	6015.57	-231.41	143.06	270.17	272.06	148.28	0.73
6100.00	8.10	125.90	6077.90	-236.83	150.50	279.04	280.60	147.57	0.96
6163.00	7.00	126.80	6140.35	-241.74	157.16	287.03	288.33	146.97	1.76
6225.00	6.00	120.00	6201.95	-245.62	163.00	293.70	294.78	146.43	2.03
6286.00	6.00	117.40	6262.62	-248.68	168.59	299.58	300.44	145.87	0.45
6349.00	6.50	113.70	6325.24	-251.63	174.78	305.73	306.37	145.22	1.02
6413.00	6.90	118.20	6388.81	-254.90	181.48	312.47	312.91	144.55	1.03
6476.00	7.00	126.20	6451.34	-258.96	187.91	319.65	319.95	144.03	1.54
6539.00	5.90	117.50	6513.95	-262.72	193.88	326.31	326.52	143.57	2.33
6603.00	4.90	118.40	6577.66	-265.54	199.21	331.83	331.96	143.12	1.57
6671.00	4.90	112.10	6645.41	-268.01	204.45	337.03	337.09	142.66	0.79
6734.00	5.10	116.10	6708.17	-270.26	209.46	341.90	341.92	142.22	0.64
6798.00	5.70	125.20	6771.89	-273.34	214.61	347.52	347.52	141.86	1.63
6861.00	7.50	131.00	6834.47	-277.84	220.27	354.56	354.56	141.59	3.04
6923.00	7.20	131.00	6895.96	-283.05	226.26	362.36	362.36	141.36	0.48
6986.00	8.40	136.40	6958.38	-288.97	232.41	370.83	370.83	141.19	2.23
7048.00	9.10	140.80	7019.66	-296.05	238.63	380.24	380.25	141.13	1.56
7111.00	10.10	142.50	7081.77	-304.29	245.14	390.75	390.75	141.14	1.65
7174.00	9.80	142.90	7143.83	-312.95	251.74	401.63	401.64	141.19	0.49
7236.00	9.60	143.40	7204.94	-321.31	258.01	412.07	412.08	141.24	0.35
7299.00	10.50	141.00	7266.97	-329.99	264.75	423.06	423.07	141.26	1.58
7362.00	10.40	139.70	7328.93	-338.79	272.04	434.49	434.49	141.24	0.41
7424.00	10.10	140.30	7389.94	-347.24	279.13	445.51	445.52	141.21	0.51
7487.00	10.70	141.40	7451.90	-356.06	286.31	456.89	456.89	141.20	1.00
7550.00	10.40	142.30	7513.84	-365.13	293.44	468.42	468.43	141.21	0.54
7613.00	10.20	144.40	7575.82	-374.16	300.16	479.68	479.68	141.26	0.68
7676.00	9.80	146.40	7637.87	-383.16	306.38	490.59	490.59	141.35	0.84
7738.00	10.70	145.70	7698.88	-392.31	312.54	501.59	501.59	141.46	1.47
7802.00	10.40	147.10	7761.79	-402.07	319.03	513.26	513.26	141.57	0.62
7864.00	10.20	148.40	7822.79	-411.45	324.94	524.28	524.29	141.70	0.49
7928.00	10.90	145.40	7885.71	-421.25	331.35	535.95	535.95	141.81	1.39
7990.00	10.90	144.50	7946.59	-430.85	338.08	547.65	547.66	141.88	0.27
8053.00	10.50	146.40	8008.50	-440.48	344.72	559.32	559.33	141.95	0.85
8116.00	10.40	143.30	8070.45	-449.82	351.29	570.72	570.74	142.01	0.91
8179.00	10.20	143.30	8132.44	-458.85	358.02	581.98	582.00	142.04	0.32
8245.00	10.20	143.60	8197.40	-468.24	364.98	593.66	593.69	142.06	0.08
8313.00	10.30	140.40	8264.31	-477.77	372.43	605.76	605.78	142.06	0.85
8377.00	10.20	140.40	8327.29	-486.55	379.69	617.14	617.17	142.03	0.16
8439.00	9.90	141.20	8388.34	-494.93	386.53	627.96	627.98	142.01	0.53
8502.00	9.80	141.50	8450.41	-503.35	393.26	638.74	638.76	142.00	0.18
8565.00	9.60	141.30	8512.51	-511.64	399.88	649.35	649.37	141.99	0.32
8633.00	8.80	141.90	8579.63	-520.16	406.64	660.22	660.25	141.98	1.18
8697.00	8.90	140.10	8642.87	-527.81	412.83	670.07	670.09	141.97	0.46
Last MWD Survey									
8760.00	9.10	141.20	8705.10	-535.43	419.08	679.92	679.94	141.95	0.42
8800.00	8.90	142.78	8744.60	-540.36	422.94	686.18	686.20	141.95	0.79
8900.00	8.80	142.80	8843.41	-552.62	432.24	701.56	701.58	141.97	0.10
9000.00	7.79	147.48	8942.37	-564.42	440.51	715.95	715.98	142.03	1.21
9100.00	6.75	153.49	9041.56	-575.40	446.77	728.44	728.49	142.17	1.29
9200.00	6.15	158.84	9140.93	-585.65	451.33	739.30	739.38	142.38	0.85

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
9300.00	5.51	168.80	9240.42	-595.36	454.20	748.68	748.83	142.66	1.19
9400.00	5.21	178.67	9339.98	-604.61	455.24	756.57	756.83	143.02	0.97
9500.00	4.84	190.39	9439.60	-613.30	454.58	762.96	763.40	143.45	1.09
9600.00	4.73	201.22	9539.25	-621.29	452.33	767.82	768.51	143.94	0.91
9700.00	4.83	205.37	9638.91	-628.94	449.03	771.75	772.78	144.47	0.36
9800.00	4.85	214.96	9738.55	-636.21	444.80	774.81	776.28	145.04	0.81
9900.00	5.04	228.34	9838.18	-642.59	439.10	776.26	778.29	145.65	1.17
9927.00	5.08	227.59	9865.08	-644.18	437.33	776.41	778.61	145.83	0.29