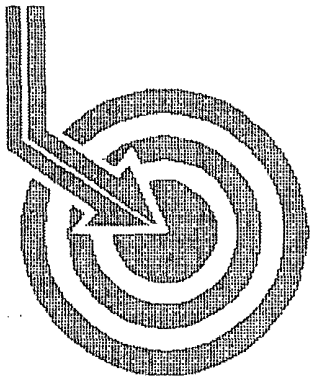




Scientific Drilling

E.O.G.

Field: Cottonwood Creek
Site: Eddy County, NM
Well: Seine C6 Fee #2H
Wellpath: VH - Job #32K0706582
Survey: 07/22/06

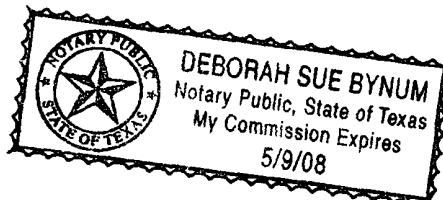
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*R. L. Hester*..... Company Representative

Notorized this date 22nd of August, 2006.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: E.O.G.
Field: Cottonwood Creek
Site: Eddy County, NM
Well: Seine C6 Fee #2H
Wellpath: VH - Job #32K0706582

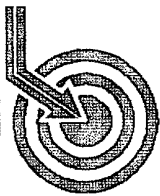
Date: 08/22/2006 Time: 13:39:31 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,263.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 07/22/06
KSRG 0'-4547'
Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Surface Readout Gyro

Start Date: 07/22/2006
Engineer: Madrid w/Signal
Tied-to: From Surface

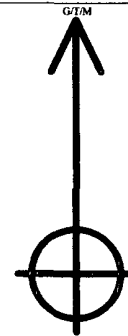
Survey

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	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.68	18.41	100.00	-0.25	0.56	0.19	0.68	0.59	18.41
200.00	0.30	36.80	199.99	-0.69	1.34	0.53	0.41	1.44	21.70
300.00	0.36	147.49	299.99	-1.01	1.28	0.86	0.54	1.54	33.80
400.00	5.44	211.67	399.84	1.82	-3.02	-1.46	5.29	3.36	205.85
500.00	5.45	210.80	499.39	7.69	-11.14	-6.38	0.08	12.84	209.83
600.00	5.22	216.79	598.95	13.75	-18.86	-11.54	0.60	22.11	211.47
700.00	5.16	216.03	698.54	19.97	-26.14	-16.91	0.09	31.13	212.90
800.00	5.10	214.55	798.14	25.99	-33.43	-22.08	0.15	40.07	213.44
900.00	5.09	214.25	897.75	31.86	-40.76	-27.09	0.03	48.94	213.61
1000.00	4.67	213.56	997.39	37.43	-47.82	-31.84	0.42	57.45	213.66
1100.00	4.29	213.16	1097.08	42.49	-54.34	-36.14	0.38	65.26	213.62
1200.00	3.72	213.03	1196.84	46.99	-60.20	-39.95	0.57	72.25	213.57
1300.00	3.44	211.91	1296.64	50.96	-65.46	-43.30	0.29	78.49	213.49
1400.00	3.04	213.13	1396.48	54.55	-70.23	-46.34	0.41	84.14	213.42
1500.00	2.83	213.40	1496.35	57.86	-74.51	-49.15	0.21	89.26	213.41
1600.00	2.29	215.39	1596.25	60.81	-78.20	-51.66	0.55	93.73	213.45
1700.00	2.13	217.51	1696.17	63.46	-81.30	-53.95	0.18	97.58	213.57
1800.00	2.04	220.38	1796.11	66.07	-84.13	-56.24	0.14	101.20	213.76
1900.00	1.55	226.52	1896.06	68.47	-86.42	-58.37	0.53	104.29	214.04
2000.00	0.92	214.66	1996.04	70.09	-88.01	-59.81	0.68	106.41	214.20
2100.00	0.67	203.17	2096.03	70.92	-89.21	-60.50	0.30	107.79	214.14
2200.00	0.48	185.92	2196.02	71.30	-90.16	-60.77	0.26	108.73	213.98
2300.00	0.44	171.49	2296.02	71.39	-90.96	-60.76	0.12	109.38	213.74
2400.00	0.39	195.39	2396.01	71.51	-91.67	-60.79	0.18	109.99	213.55
2500.00	0.23	197.91	2496.01	71.72	-92.19	-60.94	0.16	110.51	213.47
2600.00	0.37	243.00	2596.01	72.11	-92.52	-61.29	0.26	110.98	213.52
2700.00	0.34	260.91	2696.01	72.71	-92.72	-61.87	0.11	111.47	213.72
2800.00	0.28	268.17	2796.01	73.25	-92.77	-62.41	0.07	111.81	213.93
2900.00	0.40	274.88	2896.01	73.83	-92.75	-63.00	0.13	112.12	214.19
3000.00	0.26	261.01	2996.01	74.40	-92.76	-63.57	0.16	112.45	214.43
3100.00	0.30	186.75	3096.00	74.69	-93.05	-63.83	0.34	112.84	214.45
3200.00	0.42	192.95	3196.00	74.88	-93.67	-63.94	0.13	113.41	214.32
3300.00	0.38	190.59	3296.00	75.10	-94.35	-64.08	0.04	114.06	214.18
3400.00	0.43	155.10	3396.00	75.09	-95.02	-63.99	0.25	114.55	213.96
3500.00	0.50	128.86	3495.99	74.67	-95.63	-63.49	0.22	114.79	213.58
3600.00	0.69	116.93	3595.99	73.87	-96.18	-62.61	0.23	114.76	213.06
3700.00	1.09	110.43	3695.98	72.52	-96.78	-61.18	0.41	114.50	212.30
3800.00	1.12	107.66	3795.96	70.79	-97.41	-59.36	0.06	114.07	211.36
3900.00	0.86	116.32	3895.94	69.27	-98.04	-57.76	0.30	113.79	210.50
4000.00	0.88	130.67	3995.93	68.13	-98.87	-56.50	0.22	113.88	209.75
4100.00	1.07	136.37	4095.92	67.06	-100.05	-55.28	0.21	114.30	208.92
4200.00	1.22	134.08	4195.90	65.83	-101.47	-53.87	0.16	114.88	207.96
4300.00	1.27	123.94	4295.87	64.32	-102.83	-52.18	0.23	115.31	206.91
4400.00	1.41	128.65	4395.85	62.63	-104.21	-50.30	0.18	115.72	205.77
4500.00	1.32	131.17	4495.82	61.00	-105.74	-48.47	0.11	116.32	204.63
4547.00	1.26	123.69	4542.81	60.25	-106.38	-47.64	0.38	116.56	204.12



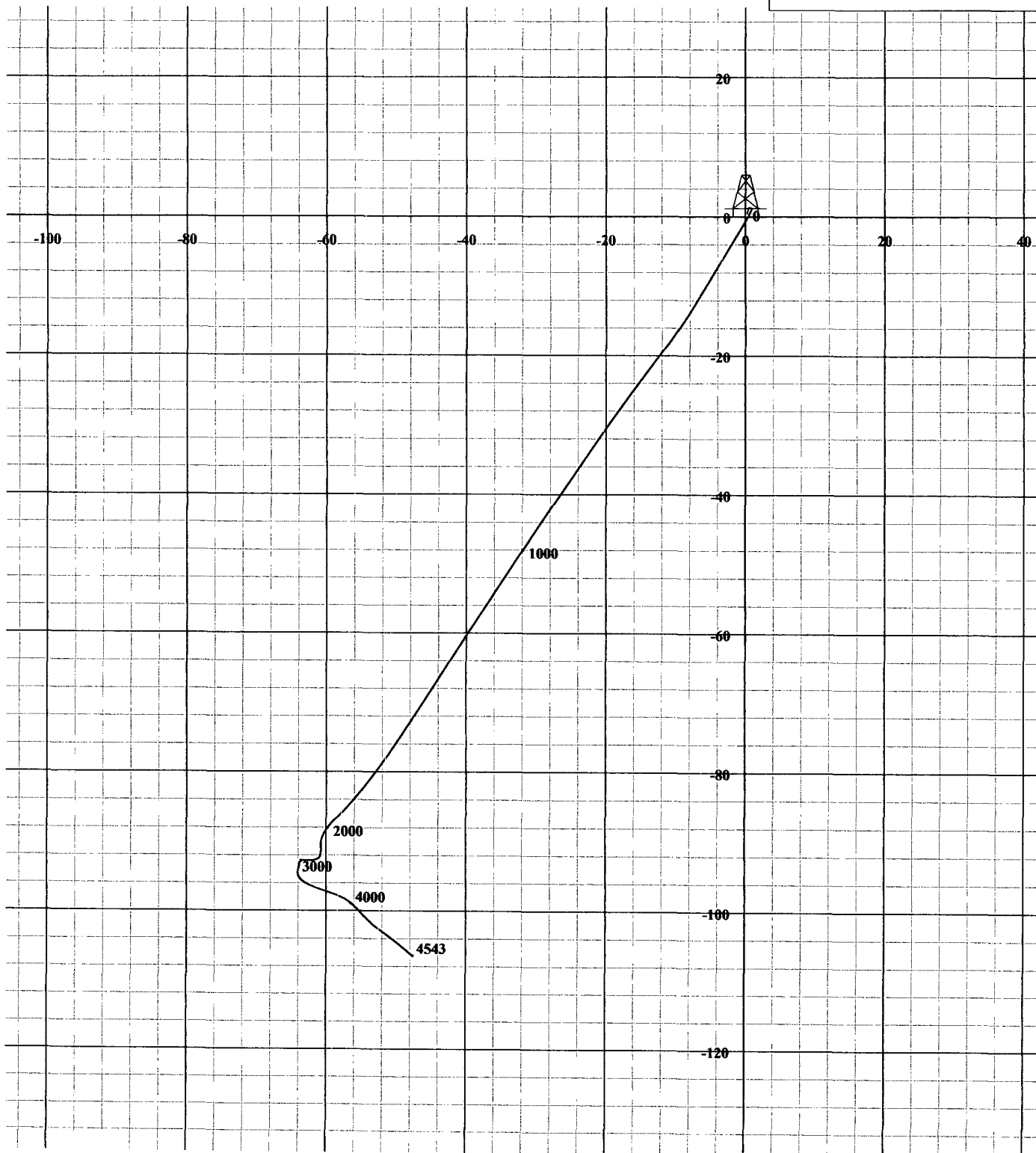
Scientific
Drilling

Field: Cottonwood Creek
Site: Eddy County, NM
Well: Seine C6 Fee #2H
Wellpath: VH - Job #32K0706582
Survey: 07/22/06



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Strength: 0.1
Dip Angle: 0.00°
Date: 08/22/2006
Model: IGR2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]

Seine C 6 Fee #2H Final Surveys.txt

~Version Information

VERS. 2.00: PATHFINDER ENERGY SERVICES LAS - Version 2.00
WRAP. NO: One line per depth step

~Well Information

STRT.FT 3947.9985:
STOP.FT 8830.0000:
STEP.FT 0.0000:
NULL. -999.25:
COMP. EOG RESOURCES INC.: COMPANY
"WELL. SEINE ""C"" 6 FEE 2H: WELL"
FLD . COTTONWOOD CREEK (WEST): FLD
SRVC. Pathfinder Energy Services: SERVICE COMPANY
LOC . : LOCATION
DATE. 06-Aug-06: LOG DATE
UWI . 30-015-34800: API NUMBER
APD .FT 22.00: ELEVATION ABOVE PERMANENT DATUM
CNTY. EDDY CO.: COUNTY
CTRY. USA: COUNTRY
DMF . ROTARY TABLE: DRILLING-LOG MEASURED FROM
EPD .FT 3518.00: ELEVATION OF PERMANENT DATUM
FL1 . 2440' FSL 215' FEL: WELL LOCATION 1
PDAM. GROUND LEVEL - MEAN SEA LEVEL: ELEVATION OF PERMANENT DATUM REF
PDAT. GROUND LEVEL: PERMANENT DATUM
RANG. 25E: RANGE
SECT. 6: SECTION
STAT. NM: STATE
TOWN. 16S: TOWNSHIP

~Curve Information

DEPT.FT	MTTV.FT	INC .DEG	AZI .DEG	SECT .FT	RCN .FT	RCE .FT	DLSE .DG/H
#	#	#	#	#	#	#	#
# ReLog Number	0	0	0	0	0	0	0

~ASCII Data

4000.00	3995.92	0.88	130.67	67.68	-98.87	-56.76	-999.25
4030.00	4025.91	2.46	218.37	67.98	-99.53	-56.99	8.60
4062.00	4057.82	5.72	234.54	69.86	-100.99	-58.71	10.69
4094.00	4089.53	9.67	237.00	73.67	-103.38	-62.26	12.41
4126.00	4120.86	13.63	237.44	79.47	-106.87	-67.70	12.37
4157.00	4150.76	16.97	236.91	86.80	-111.31	-74.57	10.79
4189.00	4181.18	19.17	238.23	95.73	-116.63	-82.95	6.99
4221.00	4211.21	21.28	237.88	105.72	-122.48	-92.34	6.61
4253.00	4240.80	23.48	238.32	116.74	-128.92	-102.68	6.89
4285.00	4269.81	26.38	237.53	128.90	-136.08	-114.11	9.13
4316.00	4297.15	29.81	236.74	141.99	-144.01	-126.36	11.13
4348.00	4324.61	32.01	235.95	156.62	-153.12	-140.04	6.99
4380.00	4351.26	35.17	235.33	172.27	-163.11	-154.65	9.95
4412.00	4377.36	35.53	235.07	188.58	-173.68	-169.85	1.20
4443.00	4402.31	37.28	234.28	204.71	-184.32	-184.86	5.87
4475.00	4427.24	40.36	233.84	222.19	-196.10	-201.10	9.66
4507.00	4451.02	43.62	234.01	240.81	-208.70	-218.40	10.17
4539.00	4473.58	46.69	234.28	260.60	-221.99	-236.79	9.63
4570.00	4494.48	48.54	234.28	280.59	-235.35	-255.38	5.96
4602.00	4515.35	50.03	234.54	301.80	-249.47	-275.10	4.71
4634.00	4535.49	51.97	234.19	323.53	-263.96	-295.31	6.11

Seine C 6 Fee #2H Final Surveys.txt

4665.00	4554.08	54.34	234.01	345.16	-278.51	-315.41	7.67
4697.00	4572.19	56.72	232.87	368.00	-294.22	-336.59	7.98
4729.00	4589.06	59.62	232.34	391.34	-310.73	-358.19	9.18
4761.00	4604.17	64.02	232.17	415.47	-327.99	-380.49	13.75
4800.00	4619.54	69.56	232.70	446.18	-349.84	-408.89	14.26
4831.00	4629.54	72.81	233.14	471.45	-367.53	-432.29	10.58
4863.00	4638.57	74.39	233.49	498.00	-385.87	-456.91	5.06
4895.00	4646.83	75.71	234.01	524.86	-404.15	-481.84	4.42
4927.00	4653.94	78.61	234.36	552.08	-422.40	-507.14	9.13
4958.00	4659.12	82.13	235.42	578.92	-439.97	-532.14	11.83
4990.00	4663.02	83.89	235.24	606.94	-458.04	-558.26	5.52
5022.00	4666.45	83.80	235.42	635.00	-476.14	-584.43	0.61
5054.00	4669.76	84.33	236.21	663.20	-494.02	-610.76	2.96
5086.00	4672.01	87.58	239.02	691.93	-511.11	-637.71	13.42
5117.00	4672.80	89.52	240.60	720.32	-526.69	-664.50	8.06
5149.00	4673.36	88.46	241.57	749.91	-542.16	-692.50	4.47
5181.00	4674.39	87.85	242.28	779.66	-557.21	-720.72	2.92
5213.00	4675.25	89.08	244.03	809.66	-571.66	-749.26	6.70
5276.00	4674.62	92.07	246.76	869.55	-597.88	-806.53	6.42
5308.00	4673.59	91.63	246.76	900.19	-610.50	-835.91	1.37
5340.00	4672.78	91.28	247.81	930.91	-622.85	-865.42	3.47
5372.00	4672.02	91.45	250.54	961.91	-634.23	-895.32	8.53
5403.00	4671.38	90.92	253.17	992.27	-643.88	-924.77	8.67
5435.00	4670.91	90.75	256.34	1023.90	-652.29	-955.64	9.90
5467.00	4669.93	92.77	259.77	1055.74	-658.91	-986.92	12.43
5499.00	4668.78	91.36	262.75	1087.69	-663.77	-1018.53	10.32
5594.00	4670.60	86.44	266.45	1182.61	-672.71	-1113.04	6.48
5626.00	4672.37	87.23	266.80	1214.51	-674.59	-1144.94	2.71
5658.00	4673.79	87.67	267.06	1246.42	-676.30	-1176.86	1.60
5689.00	4674.60	89.34	268.20	1277.32	-677.58	-1207.82	6.53
5753.00	4674.01	91.71	269.79	1341.01	-678.70	-1271.80	4.46
5785.00	4673.08	91.63	269.61	1372.81	-678.87	-1303.79	0.61
5849.00	4672.78	88.90	270.14	1436.40	-679.02	-1367.78	4.34
5912.00	4674.09	88.72	270.49	1498.93	-678.67	-1430.76	0.62
5976.00	4675.12	89.43	270.31	1562.45	-678.23	-1494.75	1.13
6039.00	4675.02	90.75	272.42	1624.84	-676.72	-1557.73	3.95
6103.00	4674.14	90.84	272.25	1688.07	-674.12	-1621.67	0.31
6166.00	4673.46	90.40	272.33	1750.31	-671.60	-1684.62	0.71
6198.00	4673.22	90.48	272.86	1781.91	-670.15	-1716.58	1.67
6259.00	4671.95	91.89	273.21	1842.04	-666.92	-1777.48	2.38
6386.00	4668.25	91.45	273.21	1967.14	-659.80	-1904.23	0.35
6448.00	4667.63	89.69	270.84	2028.44	-657.61	-1966.18	4.76
6510.00	4667.11	91.28	271.28	2089.88	-656.46	-2028.17	2.65
6573.00	4665.17	92.24	271.28	2152.27	-655.06	-2091.12	1.54
6635.00	4663.13	91.54	270.75	2213.69	-653.96	-2153.08	1.42
6698.00	4661.39	91.63	270.22	2276.19	-653.42	-2216.05	0.85
6760.00	4659.20	92.42	271.89	2337.60	-652.28	-2278.00	2.98
6823.00	4656.54	92.42	272.25	2399.83	-650.00	-2340.90	0.56
6885.00	4653.83	92.59	272.33	2461.04	-647.53	-2402.79	0.31
6947.00	4651.03	92.59	272.33	2522.23	-645.01	-2464.68	0.01
7010.00	4650.11	89.08	271.10	2584.55	-643.12	-2527.63	5.91
7072.00	4649.97	91.19	272.16	2645.92	-641.36	-2589.60	3.81
7135.00	4648.66	91.19	273.04	2708.10	-638.50	-2652.52	1.40
7197.00	4647.90	90.22	273.48	2769.19	-634.98	-2714.42	1.71
7260.00	4647.37	90.75	274.18	2831.15	-630.77	-2777.27	1.40
7291.00	4647.11	90.22	274.09	2861.61	-628.54	-2808.19	1.73
7354.00	4646.33	91.19	274.09	2923.52	-624.05	-2871.03	1.54
7479.00	4644.80	90.22	272.77	3046.61	-616.56	-2995.79	1.31
7542.00	4644.56	90.22	272.86	3108.77	-613.47	-3058.71	0.14
7604.00	4644.03	90.75	272.86	3169.93	-610.37	-3120.63	0.85
7666.00	4642.51	92.07	272.77	3231.08	-607.33	-3182.54	2.13
7729.00	4640.53	91.54	272.77	3293.22	-604.28	-3245.43	0.84
7792.00	4639.08	91.10	272.77	3355.37	-601.23	-3308.34	0.70

Seine C 6 Fee #2H Final Surveys.txt

7855.00	4638.55	89.87	273.04	3417.51	-598.04	-3371.26	2.00
7917.00	4639.21	88.90	272.95	3478.64	-594.80	-3433.17	1.57
7947.00	4639.56	89.78	272.69	3508.24	-593.33	-3463.13	3.06
7979.00	4639.44	90.66	272.86	3539.81	-591.78	-3495.09	2.80
8041.00	4638.58	90.92	272.95	3600.96	-588.64	-3557.00	0.45
8104.00	4637.57	90.92	272.86	3663.10	-585.45	-3619.92	0.14
8167.00	4636.74	90.57	272.60	3725.27	-582.45	-3682.84	0.70
8229.00	4635.89	91.01	272.60	3786.47	-579.64	-3744.77	0.71
8291.00	4634.46	91.63	272.69	3847.66	-576.78	-3806.69	1.00
8354.00	4632.77	91.45	272.86	3909.80	-573.73	-3869.59	0.39
8416.00	4631.15	91.54	272.42	3970.98	-570.87	-3931.50	0.72
8479.00	4629.85	90.84	272.07	4033.22	-568.41	-3994.44	1.25
8542.00	4628.83	91.01	272.16	4095.50	-566.08	-4057.39	0.31
8604.00	4628.12	90.31	271.89	4156.80	-563.89	-4119.35	1.21
8667.00	4627.92	90.04	271.72	4219.13	-561.90	-4182.31	0.50
8730.00	4628.41	89.08	271.19	4281.51	-560.30	-4245.29	1.75
8761.00	4628.93	88.99	271.45	4312.21	-559.59	-4276.28	0.90
8825.00	4630.06	88.99	271.45	4375.58	-557.97	-4340.25	0.01