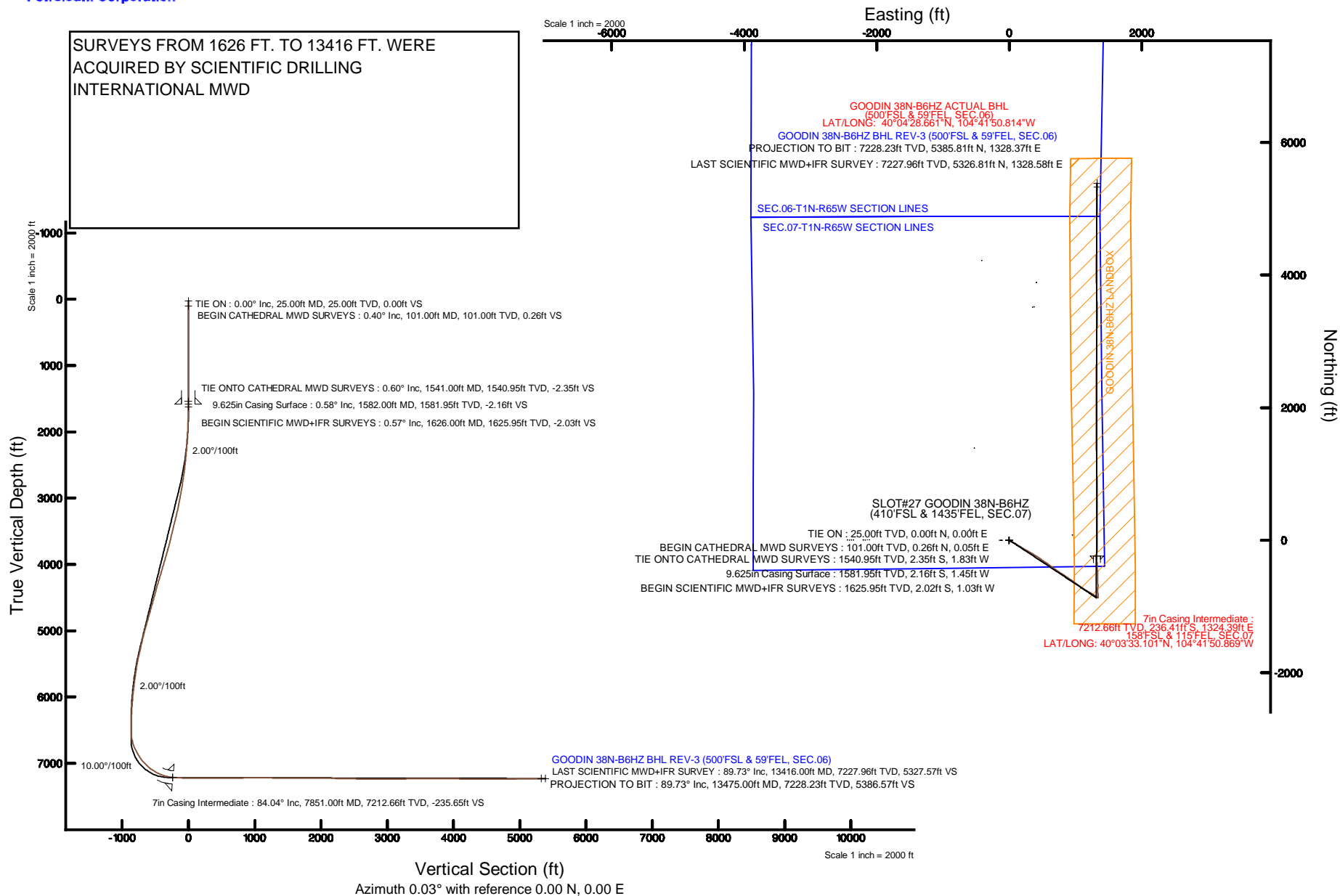


Location:	COLORADO	Slot:	SLOT#27 GOODIN 38N-B6HZ (410'FSL & 1435'FEL, SEC.07)
Field:	WELD COUNTY (KERR MCGEE)	Well:	GOODIN 38N-B6HZ
Facility:	SEC.07-T1N-R65W	Wellbore:	GOODIN 38N-B6HZ PWB

Anadarko
Petroleum Corporation

True vertical depths are referenced to H&P 307 (25KB) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to H&P 307 (25KB) (RKB)	North Reference: True north
H&P 307 (25KB) (RKB) to Mean Sea Level: 5004 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#27 GOODIN 38N-B6HZ (410'FSL & 1435'FEL, SEC.07)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: mrcrain on 6/25/2015



ANADARKO E&P ONSHORE LLC

SURVEY REPORT

GOODIN 38N-B6HZ

H&P 307

1/30/2015



The **Ultimate Partner** In Wellbore Placement

CUSTOMER	ANADARKO E&P ONSHORE LLC	SDI JOB NO.	251330
PROJECT	GOODIN 38N-B6HZ	SDI DISTRICT	Casper
FIELD	WATTENBERG	SDI KIT/UNIT	C11-EM#70 / 77-MP-42

SITE INFORMATION

Site Name	GOODIN PAD	Section	07
Lat/Long	40° 3' 36.23" N, 104° 41' 55.637" W	Township	1N
Northing		Range	65W
Easting			

MAP INFORMATION

North Reference	True North
Grid Correction	
System	US State Plane 1983
Datum	North American Datum 1983 (GRS 1980)
Map Zone	LAMBERT COLORADO SP NORTHERN ZONE (501) FEET



WELL INFORMATION

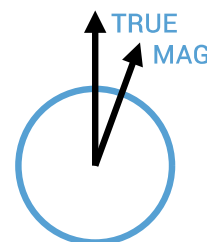
Lat/Long	40° 3' 35.438" N, 104° 42' 7.902" W
Northing	1,265,651.02 ft
Easting	3,223,308.79 ft
UWI	05-123-40742

DEPTH AND ELEVATION REFERENCE

Ground Level	5004 ft above Mean Sea Level
Reference Datum	RKB
Reference Height	25 ft above G.L.
Reference Elevation	5029 ft

VERTICAL SECTION REFERENCE

+N/-S	0 ft
+E/-W	0 ft
Proposal Direction	0.03°
Calculation Method	Minimum Curvature



GEOMAGNETIC REFERENCE INFORMATION

Local Gravity: 999.032 mG [computed]

MD	MODEL	DATE	DECLINATION	MAG TO TRUE
0-1586 ft	MagVAR-IFR	29 Jan 2015	8.09°	add 8.09°
1586-5578 ft	MagVAR-IFR	29 Jan 2015	8.14°	add 8.14°
5578-8842 ft	MagVAR-IFR	29 Jan 2015	8.09°	add 8.09°
8842-13416 ft	MagVAR-IFR	29 Jan 2015	8.06°	add 8.06°

WELL NOTES

SURVEYS FROM 0 FT. TO 1541 FT. WERE ACQUIRED BY CATHEDRAL MWD.

SURVEYS FROM 1626 FT. TO 13416 FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.

OPERATORS

B. MILBURN, C. COLLINS, S. WAXLER

SDI Operator Name (Printed)

SIGNATURE

DATE

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	BUILD RATE
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	Invalid
25.00	0.00	11.30	25.00	0.00	0.00	0.00	0.00	0.00
101.00	0.40	11.30	101.00	0.26	0.26	0.05	0.53	0.53
179.00	0.40	15.30	179.00	0.79	0.79	0.18	0.04	0.00
257.00	0.30	355.40	257.00	1.26	1.26	0.23	0.20	-0.13
338.00	0.30	1.30	337.99	1.68	1.68	0.22	0.04	0.00
418.00	0.50	348.80	417.99	2.23	2.23	0.16	0.27	0.25
498.00	0.10	134.50	497.99	2.52	2.52	0.14	0.73	-0.50
578.00	0.20	206.30	577.99	2.35	2.35	0.13	0.24	0.12
658.00	0.40	208.40	657.99	1.98	1.98	-0.07	0.25	0.25
738.00	0.50	214.80	737.99	1.45	1.45	-0.40	0.14	0.12
818.00	0.50	200.80	817.99	0.83	0.83	-0.72	0.15	0.00
898.00	0.70	216.10	897.98	0.11	0.11	-1.13	0.32	0.25
978.00	0.70	211.00	977.97	-0.70	-0.70	-1.67	0.08	0.00
1058.00	0.40	220.90	1057.97	-1.33	-1.33	-2.11	0.39	-0.37
1138.00	0.50	201.00	1137.97	-1.87	-1.87	-2.42	0.23	0.12
1218.00	0.60	211.00	1217.97	-2.55	-2.55	-2.76	0.17	0.13
1298.00	0.40	195.60	1297.96	-3.18	-3.18	-3.05	0.30	-0.25
1378.00	0.30	48.20	1377.96	-3.31	-3.31	-2.97	0.84	-0.12
1458.00	0.60	45.10	1457.96	-2.88	-2.87	-2.51	0.38	0.37
1541.00	0.60	60.00	1540.95	-2.35	-2.35	-1.83	0.19	0.00
1626.00	0.57	75.88	1625.95	-2.02	-2.02	-1.03	0.19	-0.03
1687.00	0.91	84.53	1686.94	-1.90	-1.90	-0.25	0.58	0.55
1748.00	1.66	112.59	1747.93	-2.20	-2.20	1.04	1.57	1.23
1840.00	3.62	114.09	1839.83	-3.89	-3.89	4.93	2.13	2.13
1902.00	4.63	113.39	1901.67	-5.68	-5.69	9.01	1.63	1.63
1996.00	7.16	123.04	1995.16	-10.38	-10.39	17.41	2.88	2.69
2090.00	7.97	120.47	2088.34	-16.87	-16.89	27.93	0.93	0.86
2184.00	8.97	117.56	2181.32	-23.56	-23.58	40.05	1.16	1.07
2278.00	9.90	115.79	2274.05	-30.46	-30.49	53.82	1.03	0.98
2372.00	10.89	116.05	2366.50	-37.86	-37.90	69.08	1.06	1.06
2467.00	12.35	119.00	2459.55	-46.72	-46.77	86.03	1.65	1.53

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	BUILD RATE
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
2561.00	13.05	123.79	2551.26	-57.48	-57.54	103.64	1.34	0.74
2655.00	15.13	123.05	2642.42	-70.06	-70.14	122.74	2.23	2.22
2749.00	16.36	119.90	2732.90	-83.34	-83.42	144.50	1.59	1.30
2844.00	17.38	119.24	2823.81	-96.92	-97.02	168.48	1.09	1.07
2938.00	18.30	123.23	2913.29	-111.85	-111.96	193.07	1.63	0.98
3032.00	20.38	119.75	3001.99	-128.04	-128.17	219.63	2.53	2.21
3220.00	24.72	119.52	3175.58	-163.63	-163.79	282.28	2.31	2.31
3314.00	25.59	119.75	3260.66	-183.37	-183.55	317.00	0.94	0.93
3409.00	24.38	122.68	3346.78	-204.12	-204.32	351.32	1.82	-1.28
3503.00	24.82	122.68	3432.25	-225.22	-225.44	384.25	0.47	0.47
3597.00	24.35	121.66	3517.72	-246.03	-246.27	417.35	0.67	-0.49
3691.00	25.03	121.78	3603.13	-266.65	-266.91	450.75	0.72	0.72
3786.00	24.23	125.73	3689.49	-288.60	-288.88	483.67	1.93	-0.85
3880.00	25.18	124.31	3774.89	-311.12	-311.42	515.84	1.19	1.01
3975.00	26.38	124.69	3860.43	-334.51	-334.82	549.88	1.28	1.27
4069.00	27.00	126.37	3944.42	-359.02	-359.36	584.24	1.03	0.65
4163.00	26.55	124.99	4028.34	-383.70	-384.06	618.63	0.81	-0.47
4258.00	26.70	126.59	4113.27	-408.58	-408.96	653.15	0.77	0.15
4352.00	28.09	125.09	4196.73	-433.87	-434.26	688.22	1.65	1.48
4446.00	28.56	123.26	4279.48	-458.89	-459.31	725.12	1.05	0.50
4540.00	25.90	123.81	4363.05	-482.62	-483.06	760.97	2.84	-2.82
4635.00	26.47	123.85	4448.30	-505.94	-506.40	795.80	0.60	0.60
4729.00	26.91	123.18	4532.28	-529.23	-529.71	831.00	0.57	0.47
4823.00	26.02	124.17	4616.43	-552.44	-552.94	865.87	1.06	-0.95
4917.00	26.34	124.92	4700.79	-575.93	-576.45	900.03	0.49	0.34
5011.00	26.67	124.88	4784.91	-599.91	-600.45	934.43	0.35	0.35
5106.00	26.23	125.94	4869.96	-624.41	-624.97	968.92	0.68	-0.46
5200.00	24.46	125.93	4954.91	-648.00	-648.58	1001.50	1.89	-1.89
5295.00	23.63	125.28	5041.67	-670.53	-671.12	1032.97	0.91	-0.87
5389.00	23.61	124.47	5127.79	-692.04	-692.65	1063.87	0.35	-0.03
5484.00	22.67	122.06	5215.15	-712.50	-713.13	1095.06	1.40	-0.99
5578.00	23.80	122.92	5301.53	-732.41	-733.06	1126.34	1.26	1.20

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	BUILD RATE
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
5672.00	23.17	122.75	5387.74	-752.70	-753.37	1157.81	0.67	-0.66
5767.00	19.99	119.60	5476.07	-770.82	-771.50	1187.66	3.56	-3.35
5861.00	17.90	118.63	5564.98	-785.67	-786.36	1214.32	2.25	-2.22
5956.00	15.40	120.18	5655.99	-798.99	-799.70	1238.04	2.68	-2.64
6051.00	13.93	121.95	5747.89	-811.37	-812.10	1258.65	1.61	-1.54
6146.00	11.87	125.23	5840.49	-823.05	-823.79	1276.33	2.30	-2.17
6240.00	11.53	123.99	5932.54	-833.87	-834.61	1292.02	0.45	-0.36
6334.00	10.08	116.66	6024.87	-842.80	-843.56	1307.16	2.12	-1.54
6429.00	7.73	123.59	6118.72	-850.06	-850.82	1319.91	2.72	-2.48
6524.00	5.71	128.78	6213.07	-856.56	-857.32	1328.92	2.22	-2.12
6618.00	3.30	132.10	6306.77	-861.29	-862.06	1334.57	2.58	-2.57
6713.00	2.69	134.02	6401.64	-864.67	-865.44	1338.20	0.65	-0.64
6808.00	0.48	35.54	6496.60	-865.89	-866.67	1340.04	2.95	-2.32
6902.00	6.30	1.96	6590.40	-860.41	-861.18	1340.44	6.28	6.19
6949.00	11.57	1.10	6636.81	-853.12	-853.89	1340.62	11.21	11.20
6997.00	16.40	1.16	6683.38	-841.52	-842.30	1340.85	10.06	10.06
7044.00	20.59	357.38	6727.94	-826.63	-827.40	1340.61	9.28	8.93
7092.00	23.51	355.86	6772.43	-808.65	-809.42	1339.53	6.20	6.08
7139.00	26.04	357.87	6815.10	-788.98	-789.75	1338.47	5.67	5.38
7186.00	29.52	359.90	6856.68	-767.09	-767.86	1338.06	7.68	7.41
7233.00	33.71	1.36	6896.69	-742.46	-743.23	1338.35	9.06	8.91
7281.00	37.44	1.18	6935.73	-714.54	-715.32	1338.97	7.76	7.76
7328.00	40.89	359.67	6972.16	-684.87	-685.64	1339.18	7.62	7.34
7375.00	43.70	359.38	7006.92	-653.24	-654.02	1338.91	6.00	5.99
7422.00	46.87	357.83	7039.99	-619.86	-620.63	1338.09	7.13	6.73
7470.00	51.29	358.06	7071.42	-583.63	-584.40	1336.79	9.22	9.21
7517.00	56.04	357.76	7099.27	-545.80	-546.57	1335.41	10.11	10.10
7564.00	60.25	357.89	7124.07	-505.92	-506.69	1333.89	8.96	8.96
7611.00	63.79	357.46	7146.11	-464.46	-465.22	1332.21	7.59	7.54
7659.00	66.79	356.31	7166.18	-420.92	-421.69	1329.83	6.61	6.24
7753.00	75.64	357.88	7196.42	-332.14	-332.90	1325.36	9.54	9.41
7809.00	81.63	359.88	7207.45	-277.28	-278.04	1324.30	11.26	10.71

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	BUILD RATE
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
7905.00	87.15	0.89	7216.83	-181.78	-182.54	1324.95	5.84	5.75
7997.00	87.85	1.50	7220.85	-89.88	-90.65	1326.86	1.01	0.76
8089.00	89.06	0.16	7223.32	2.07	1.30	1328.19	1.96	1.32
8182.00	89.56	1.65	7224.44	95.05	94.28	1329.65	1.69	0.54
8276.00	89.83	359.82	7224.93	189.04	188.27	1330.86	1.97	0.29
8371.00	89.63	359.31	7225.38	284.03	283.27	1330.13	0.58	-0.21
8465.00	88.96	357.52	7226.54	377.98	377.22	1327.53	2.03	-0.71
8559.00	90.34	0.48	7227.11	471.95	471.19	1325.89	3.47	1.46
8654.00	91.07	0.27	7225.94	566.94	566.18	1326.52	0.81	0.78
8748.00	90.47	359.65	7224.68	660.93	660.17	1326.44	0.92	-0.64
8843.00	91.71	0.19	7222.87	755.92	755.15	1326.31	1.43	1.31
8938.00	91.88	359.35	7219.89	850.87	850.10	1325.92	0.89	0.18
9033.00	90.87	359.58	7217.60	945.83	945.07	1325.04	1.09	-1.06
9127.00	89.26	359.14	7217.49	1039.82	1039.06	1323.99	1.78	-1.72
9222.00	90.00	359.18	7218.10	1134.81	1134.05	1322.60	0.78	0.78
9316.00	88.76	358.95	7219.12	1228.79	1228.03	1321.07	1.34	-1.32
9411.00	87.15	358.24	7222.51	1323.69	1322.94	1318.74	1.85	-1.70
9505.00	89.02	358.97	7225.65	1417.61	1416.85	1316.46	2.14	2.00
9600.00	90.30	359.16	7226.21	1512.59	1511.83	1314.92	1.36	1.34
9694.00	89.80	359.53	7226.12	1606.58	1605.83	1313.84	0.66	-0.54
9883.00	90.17	359.50	7226.18	1795.58	1794.82	1312.23	0.20	0.20
9978.00	90.54	0.27	7225.60	1890.57	1889.82	1312.05	0.90	0.39
10072.00	90.13	0.25	7225.05	1984.57	1983.81	1312.48	0.43	-0.43
10167.00	88.29	359.24	7226.36	2079.55	2078.80	1312.06	2.22	-1.94
10262.00	89.46	359.60	7228.22	2174.53	2173.77	1311.10	1.30	1.24
10356.00	88.66	0.52	7229.76	2268.51	2267.76	1311.20	1.30	-0.86
10451.00	89.70	1.63	7231.12	2363.49	2362.73	1312.98	1.60	1.09
10545.00	87.78	0.84	7233.19	2457.44	2456.68	1315.00	2.20	-2.04
10639.00	87.79	0.33	7236.82	2551.36	2550.61	1315.96	0.54	0.01
10732.00	89.13	1.25	7239.33	2644.32	2643.56	1317.24	1.74	1.44
10826.00	90.94	1.44	7239.27	2738.29	2737.53	1319.45	1.94	1.93
10920.00	90.44	1.47	7238.14	2832.25	2831.49	1321.83	0.54	-0.54

MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	BUILD RATE
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
11015.00	89.63	359.41	7238.09	2927.25	2926.48	1322.56	2.33	-0.85
11109.00	89.46	359.39	7238.83	3021.24	3020.48	1321.58	0.18	-0.18
11203.00	90.20	1.22	7239.11	3115.23	3114.47	1322.08	2.10	0.79
11297.00	91.61	1.98	7237.62	3209.18	3208.42	1324.70	1.70	1.50
11392.00	91.18	1.52	7235.31	3304.11	3303.35	1327.60	0.66	-0.46
11486.00	90.13	359.59	7234.24	3398.09	3397.33	1328.51	2.34	-1.11
11581.00	89.60	358.31	7234.46	3493.07	3492.31	1326.77	1.46	-0.56
11675.00	90.23	359.20	7234.60	3587.05	3586.29	1324.73	1.17	0.68
11769.00	90.74	358.73	7233.80	3681.03	3680.27	1323.03	0.73	0.54
11863.00	91.04	358.02	7232.34	3774.98	3774.22	1320.37	0.83	0.32
11958.00	89.63	358.29	7231.79	3869.92	3869.16	1317.31	1.51	-1.48
12052.00	89.09	359.17	7232.83	3963.89	3963.13	1315.23	1.10	-0.57
12147.00	88.29	359.75	7235.01	4058.86	4058.10	1314.33	1.05	-0.85
12241.00	89.30	0.49	7236.99	4152.84	4152.08	1314.54	1.33	1.07
12335.00	89.30	1.22	7238.14	4246.82	4246.06	1315.94	0.78	0.00
12430.00	89.53	1.39	7239.12	4341.79	4341.03	1318.11	0.30	0.25
12524.00	89.70	0.51	7239.75	4435.78	4435.02	1319.67	0.96	0.18
12618.00	89.96	1.03	7240.03	4529.77	4529.01	1320.93	0.62	0.27
12712.00	89.97	359.98	7240.10	4623.76	4623.00	1321.75	1.12	0.01
12807.00	90.37	0.50	7239.82	4718.76	4718.00	1322.15	0.69	0.42
12901.00	91.81	0.13	7238.03	4812.74	4811.98	1322.67	1.58	1.53
12995.00	90.50	1.22	7236.13	4906.71	4905.95	1323.78	1.81	-1.39
13090.00	91.00	0.58	7234.88	5001.69	5000.93	1325.27	0.86	0.53
13184.00	92.01	0.25	7232.41	5095.66	5094.89	1325.95	1.13	1.07
13278.00	90.44	0.76	7230.40	5189.63	5188.87	1326.78	1.76	-1.68
13373.00	90.74	0.41	7229.42	5284.62	5283.86	1327.74	0.49	0.32
13416.00	89.73	359.80	7229.25	5327.62	5326.85	1327.82	2.73	-2.34