DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 87505

"AS DRILLED PLAT"

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-35059	72319 / 71599	BLANCO MESA VERDE / BASIN DAKOTA

[4] Property Code	[5] Property Name	[6] Well Number
7284	MANSFIELD	2M

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY LP	6156

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	30 N	9 W		774	NORTH	1608	WEST	SAN JUAN

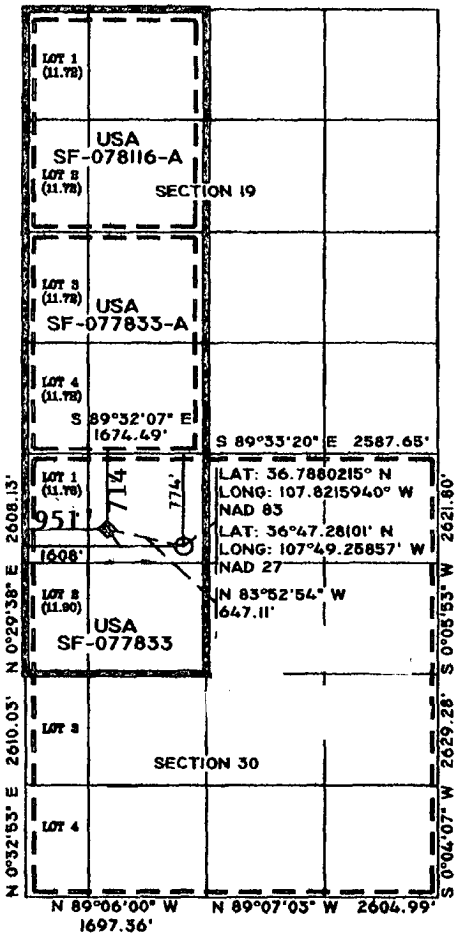
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	30 N	9 W		714	NORTH	951	WEST	SAN JUAN

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
310.56			R-2046

RCVD NOV 2'10
OIL CONS. DIV.
DIST. 3

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



○= SURFACE LOCATION
◆= BOTTOM HOLE LOCATION

NOTE:
BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83.

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 11/1/10
Signature Date

Crystal Tafoya 11/1/10
Printed Name

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

7/29/09
Date of Survey

Signature and Seal of Professional Surveyor:

MARSHALL W. LINDEEN
NEW MEXICO
17078
8-26-09
REGISTERED PROFESSIONAL SURVEYOR

17078
Certificate Number

COP Deviation Report ConocoPhillips **API: 3004535059**

RCVD NOV 2'10
OIL CONS. DIV.
DIST. 3

Legal WellName : MANSFIELD #2M	**API / UWI:** 3004535059
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP	**Surf Loc:** 030-030N-009W-C
St/Prov: NEW MEXICO	**N/S Dist (ft):** 774.00 - FNL
County: SAN JUAN	**E/W Dist (ft):** 1,608.00 - FWL

Wellbore Name : Original Hole

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
INCLINATION SURVEY	07/28/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
07/28/2010	130.00	1.00	.00	Inc-WL	MOTE
07/28/2010	237.00	1.50	.00	Inc-WL	MOTE

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
DIRECTIONAL SURVEY	08/04/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
08/04/2010	.00	.00	.00	IncAzi-MWD	Scientific Drilling
08/04/2010	245.00	.50	165.19	IncAzi-MWD	Scientific Drilling
08/04/2010	307.00	.68	148.38	IncAzi-MWD	Scientific Drilling
08/04/2010	369.00	.96	231.01	IncAzi-MWD	Scientific Drilling
08/04/2010	431.00	1.71	255.61	IncAzi-MWD	Scientific Drilling
08/04/2010	493.00	2.68	266.69	IncAzi-MWD	Scientific Drilling
08/04/2010	554.00	3.19	275.29	IncAzi-MWD	Scientific Drilling
08/04/2010	616.00	4.49	280.46	IncAzi-MWD	Scientific Drilling
08/04/2010	678.00	5.72	292.61	IncAzi-MWD	Scientific Drilling
08/04/2010	740.00	7.51	289.36	IncAzi-MWD	Scientific Drilling
08/04/2010	801.00	8.94	284.42	IncAzi-MWD	Scientific Drilling
08/04/2010	862.00	10.82	282.39	IncAzi-MWD	Scientific Drilling
08/04/2010	926.00	12.75	280.41	IncAzi-MWD	Scientific Drilling
08/04/2010	989.00	14.05	279.45	IncAzi-MWD	Scientific Drilling
08/04/2010	1,052.00	15.34	279.17	IncAzi-MWD	Scientific Drilling
08/04/2010	1,115.00	16.81	278.53	IncAzi-MWD	Scientific Drilling
08/04/2010	1,178.00	18.12	275.77	IncAzi-MWD	Scientific Drilling
08/04/2010	1,241.00	19.32	273.18	IncAzi-MWD	Scientific Drilling
08/04/2010	1,304.00	20.96	274.50	IncAzi-MWD	Scientific Drilling
08/04/2010	1,367.00	22.10	274.84	IncAzi-MWD	Scientific Drilling
08/04/2010	1,431.00	21.49	273.63	IncAzi-MWD	Scientific Drilling
08/05/2010	1,494.00	22.36	274.43	IncAzi-MWD	Scientific Drilling
08/05/2010	1,557.00	22.74	274.23	IncAzi-MWD	Scientific Drilling
08/05/2010	1,620.00	23.54	275.10	IncAzi-MWD	Scientific Drilling
08/05/2010	1,682.00	24.23	275.31	IncAzi-MWD	Scientific Drilling
08/05/2010	1,746.00	22.86	275.31	IncAzi-MWD	Scientific Drilling
08/05/2010	1,809.00	21.65	273.97	IncAzi-MWD	Scientific Drilling

08/05/2010	1,873.00	21.72	274.27	IncAzi-MWD	Scientific Drilling
08/05/2010	1,936.00	21.42	274.76	IncAzi-MWD	Scientific Drilling
08/05/2010	2,000.00	20.02	275.38	IncAzi-MWD	Scientific Drilling
08/05/2010	2,062.00	19.27	276.06	IncAzi-MWD	Scientific Drilling
08/05/2010	2,126.00	19.54	275.92	IncAzi-MWD	Scientific Drilling
08/05/2010	2,189.00	18.88	276.37	IncAzi-MWD	Scientific Drilling
08/05/2010	2,252.00	18.13	276.21	IncAzi-MWD	Scientific Drilling
08/05/2010	2,315.00	18.09	276.06	IncAzi-MWD	Scientific Drilling
08/05/2010	2,377.00	16.98	276.10	IncAzi-MWD	Scientific Drilling
08/05/2010	2,440.00	14.92	274.00	IncAzi-MWD	Scientific Drilling
08/05/2010	2,503.00	13.28	271.80	IncAzi-MWD	Scientific Drilling
08/05/2010	2,566.00	11.54	271.09	IncAzi-MWD	Scientific Drilling
08/05/2010	2,630.00	9.78	270.22	IncAzi-MWD	Scientific Drilling
08/05/2010	2,693.00	8.57	268.23	IncAzi-MWD	Scientific Drilling
08/05/2010	2,757.00	7.33	267.54	IncAzi-MWD	Scientific Drilling
08/05/2010	2,820.00	7.09	267.88	IncAzi-MWD	Scientific Drilling
08/05/2010	2,883.00	6.92	271.36	IncAzi-MWD	Scientific Drilling
08/05/2010	2,946.00	6.18	273.09	IncAzi-MWD	Scientific Drilling
08/05/2010	3,009.00	4.58	276.98	IncAzi-MWD	Scientific Drilling
08/05/2010	3,072.00	4.43	279.39	IncAzi-MWD	Scientific Drilling
08/05/2010	3,095.00	4.33	276.42	IncAzi-MWD	Scientific Drilling
08/05/2010	3,152.00	4.08	276.42	IncAzi-MWD	Scientific Drilling

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
FINAL BH SURVEY	08/12/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
08/12/2010	7,385.00	1.00	.00	Inc-WL	PHOENIX

I, the undersigned, certify that I, acting in my capacity as Drilling Engineer for ConocoPhillips Company am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this November 1, 2010

Crystal L. Tafoya

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2014

ConocoPhillips

SJB (NM West)
SEC 30-T30N-R9W
Mansfield #2M
API# 30-045-35059
Original Hole

Survey: Actual

Standard Survey Report

17 August, 2010

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

K L Harton

Notorized this date 24th of August, 2010.

Carrie Reed

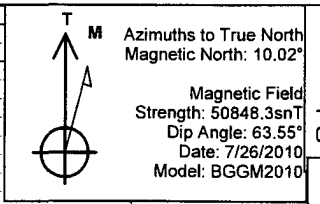
Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2011

Scientific Drilling
Directional Drilling Operations

Project: SJB (NM West)
SEC 30-T30N-R9W
Well: Mansfield #2M
Wellbore: Original Hole
Design: Plan #1
Site:

ConocoPhillips



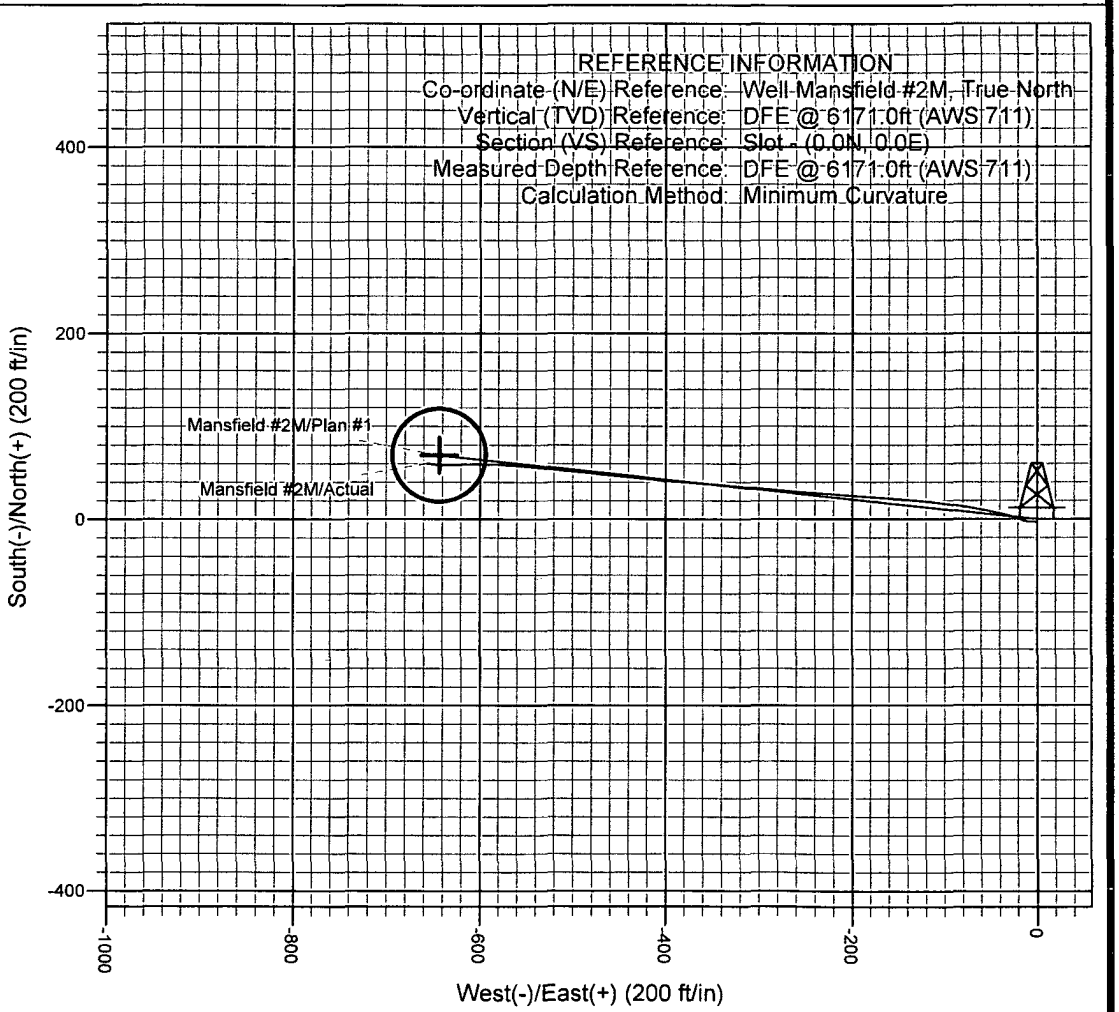
Azimuths to True North
Magnetic North: 10.02°

Magnetic Field
Strength: 50848.3snT
Dip Angle: 63.55°
Date: 7/26/2010
Model: BGGM2010

WELL DETAILS: Mansfield #2M
DFE @ 6171.0ft (AWS 711)
Ground Level: 6156.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	2106096.65	503618.47	36° 47' 16.861 N	107° 49' 15.514 W	

REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Mansfield #2M, True North
Vertical (TVD) Reference: DFE @ 6171.0ft (AWS 711)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: DFE @ 6171.0ft (AWS 711)
Calculation Method: Minimum Curvature



COMPANY DETAILS: ConocoPhillips
Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Combined Covariances
Warning Method: Risk Ratio

PROJECT DETAILS: SJB (NM West)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

SITE DETAILS: SEC 30-T30N-R9W
San Juan County NM
Site Centre Latitude: 36° 47' 16.861 N
Longitude: 107° 49' 15.514 W
Positional Uncertainity: 0.0
Convergence: 0.01
Local North: True

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Mansfield #2M
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6171.0ft (AWS 711)
Site:	SEC 30-T30N-R9W	**MD Reference:**	DFE @ 6171.0ft (AWS 711)
Well:	Mansfield #2M	**North Reference:**	True
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	edmCOP

Project	SJB (NM West), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	SEC 30-T30N-R9W				
Site Position:		**Northing:**	2,106,096.65 ft	**Latitude:**	36° 47' 16.861 N
From:	Lat/Long	**Easting:**	503,618.47 ft	**Longitude:**	107° 49' 15.514 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	0.01 °

Well	*Mansfield #2M, S-Type MV/DK Well*					
Well Position	**+N/-S**	0.0 ft	**Northing:**	2,106,096.65 ft	**Latitude:**	36° 47' 16.861 N
	+E/-W	0.0 ft	**Easting:**	503,618.47 ft	**Longitude:**	107° 49' 15.514 W
Position Uncertainty		3.5 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,156.0 ft

Wellbore	Original Hole

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2010	7/26/2010	10.02	63.55	50,848

Design	Original Hole				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.0	0.0	0.0	275.23

Survey Program **Date** 8/17/2010

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
245.0	3,095.0	Actual (Original Hole)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
245.0	0.50	165.19	245.0	-1.0	0.3	-0.4	0.20	0.20	0.00
307.0	0.68	148.38	307.0	-1.6	0.5	-0.7	0.40	0.29	-27.11
369.0	0.96	231.01	369.0	-2.2	0.3	-0.5	1.78	0.45	133.27
431.0	1.71	255.61	431.0	-2.8	-1.0	0.7	1.50	1.21	39.68
493.0	2.68	266.69	492.9	-3.1	-3.3	3.0	1.70	1.56	17.87
554.0	3.19	275.29	553.8	-3.0	-6.4	6.1	1.10	0.84	14.10
616.0	4.49	280.46	615.7	-2.4	-10.5	10.3	2.17	2.10	8.34
678.0	5.72	292.61	677.5	-0.8	-15.8	15.6	2.63	1.98	19.60
740.0	7.51	289.36	739.0	1.7	-22.5	22.5	2.95	2.89	-5.24
801.0	8.94	284.42	799.4	4.2	-30.8	31.1	2.61	2.34	-8.10
862.0	10.82	282.39	859.5	6.6	-41.0	41.4	3.13	3.08	-3.33
926.0	12.75	280.41	922.2	9.2	-53.8	54.4	3.08	3.02	-3.09

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Mansfield #2M
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6171.0ft (AWS 711)
Site:	SEC 30-T30N-R9W	**MD Reference:**	DFE @ 6171.0ft (AWS 711)
Well:	Mansfield #2M	**North Reference:**	True
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	edmCOP

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
989.0	14.05	279.45	983.4	11.7	-68.2	69.0	2.09	2.06	-1.52
1,052.0	15.34	279.17	1,044.4	14.3	-84.0	84.9	2.05	2.05	-0.44
1,115.0	16.81	278.53	1,104.9	17.0	-101.2	102.3	2.35	2.33	-1.02
1,178.0	18.12	275.77	1,165.0	19.3	-119.9	121.2	2.46	2.08	-4.38
1,241.0	19.32	273.18	1,224.7	20.9	-140.1	141.4	2.32	1.90	-4.11
1,304.0	20.96	274.50	1,283.8	22.3	-161.7	163.1	2.70	2.60	2.10
1,367.0	22.10	274.84	1,342.4	24.2	-184.8	186.2	1.82	1.81	0.54
1,431.0	21.49	273.63	1,401.9	26.0	-208.5	210.0	1.18	-0.95	-1.89
1,494.0	22.36	274.43	1,460.3	27.6	-231.9	233.5	1.46	1.38	1.27
1,557.0	22.74	274.23	1,518.5	29.4	-256.0	257.7	0.62	0.60	-0.32
1,620.0	23.54	275.10	1,576.4	31.5	-280.7	282.4	1.38	1.27	1.38
1,682.0	24.23	275.31	1,633.1	33.7	-305.7	307.5	1.12	1.11	0.34
1,746.0	22.86	275.31	1,691.8	36.1	-331.2	333.1	2.14	-2.14	0.00
1,809.0	21.65	273.97	1,750.1	38.0	-354.9	356.9	2.08	-1.92	-2.13
1,873.0	21.72	274.27	1,809.5	39.7	-378.5	380.6	0.20	0.11	0.47
1,936.0	21.42	274.76	1,868.1	41.6	-401.6	403.7	0.56	-0.48	0.78
2,000.0	20.02	275.38	1,928.0	43.6	-424.2	426.4	2.21	-2.19	0.97
2,062.0	19.27	276.06	1,986.4	45.6	-444.9	447.2	1.26	-1.21	1.10
2,126.0	19.54	275.92	2,046.7	47.9	-466.1	468.5	0.43	0.42	-0.22
2,189.0	18.88	276.37	2,106.2	50.1	-486.7	489.2	1.07	-1.05	0.71
2,252.0	18.13	276.21	2,166.0	52.3	-506.5	509.2	1.19	-1.19	-0.25
2,315.0	18.09	276.06	2,225.9	54.4	-526.0	528.8	0.10	-0.06	-0.24
2,377.0	16.98	276.10	2,285.0	56.3	-544.6	547.5	1.79	-1.79	0.06
2,440.0	14.92	274.00	2,345.6	57.9	-561.8	564.8	3.40	-3.27	-3.33
2,503.0	13.28	271.80	2,406.7	58.7	-577.2	580.1	2.74	-2.60	-3.49
2,566.0	11.54	271.09	2,468.2	59.0	-590.7	593.6	2.77	-2.76	-1.13
2,630.0	9.78	270.22	2,531.1	59.2	-602.5	605.4	2.76	-2.75	-1.36
2,693.0	8.57	268.23	2,593.3	59.0	-612.6	615.4	1.99	-1.92	-3.16
2,757.0	7.33	267.54	2,656.6	58.7	-621.4	624.2	1.94	-1.94	-1.08
2,820.0	7.09	267.88	2,719.1	58.4	-629.3	632.0	0.39	-0.38	0.54
2,883.0	6.92	271.36	2,781.7	58.3	-637.0	639.7	0.73	-0.27	5.52
2,946.0	6.18	273.09	2,844.3	58.6	-644.2	646.8	1.22	-1.17	2.75
3,009.0	4.58	276.98	2,907.0	59.1	-650.1	652.7	2.60	-2.54	6.17
3,072.0	4.43	279.39	2,969.8	59.8	-655.0	657.7	0.38	-0.24	3.83
3,095.0	4.33	276.42	2,992.7	60.1	-656.7	659.4	1.08	-0.43	-12.91