

Oxy Permian LTD
P.O. Box 4294
Houston, Texas 77210-4294

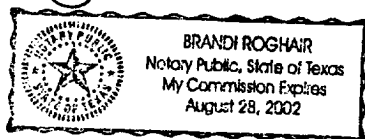
North Hobbs Unit # 33-843
Lea County, NM

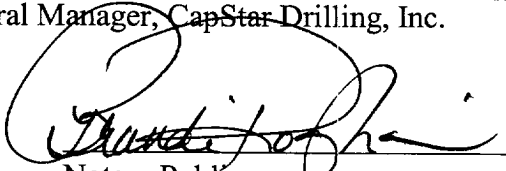
SUR: I-33-18s-38e, 1933/S & 294/E
BHL: I-33-18s-38e, 1393/S & 804/E
API #30-025-35743

474	4.74	1/2	0.88	4.15	4.15
972	9.72	1	1.75	17.01	17.01
1469	14.69	1	1.75	25.71	25.71


Michael Roghair - General Manager

The attached instrument was acknowledged before me on the 9 day of January 2002 by Michael Roghair - General Manager, CapStar Drilling, Inc.




Notary Public



March 13, 2002

Oil Conservation Division
Hobbs District Office
1625 N. French Drive
Hobbs, New Mexico 88240

Attention: Mr. Chris Williams
District Supervisor

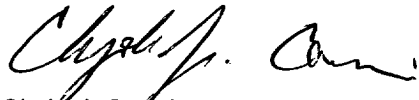
Re: Occidental Permian, Ltd.
North Hobbs G/SA Unit Well #843
Lea County, New Mexico
API Permit No. 30-025-35743

Enclosed please find the original and one copy of the survey(s) performed on the referenced well(s) by MWD Services, Inc. (Operator No. 519015). Other information required by your office is as follows:

Name & Title Of Surveyor(s)	Drainhole No.	Survey Depths	Date Performed	Survey Type
Garry Hendrix (MWD Field Operator)	Original	1,718'-4,445'	12/29/01-01/04/02	MWD

A certified land plat on which the bottom hole location is oriented both to the surface and to the lease lines (or unit line in case of pooling) is attached to the survey report(s). If any other information is required, please contact the undersigned at the letterhead address and phone number.

Regards,


Clyde J. Cormier
VP-Engineering

Enclosures

CC: Occidental Permian, Ltd.
Scientific Drilling International, Inc.



MWD SERVICES, INC.

FIELD SURVEY CALCULATIONS

DATE PRINTED: 01/04/02 MWD.REP.: G.HENDRIX
 COMPANY: OXY PERMIAN, LTD. WELL_NAME: NORTH HOBBS UNIT 33-843
 LOCATION: LEA COUNTY, NM RIG: CAPSTAR DRILLING 6
 FILE NAME: 01165.SRV VERT.SEC.DIR.: S 40.40 W
 CALCULATION MODEL: MINIMUM CURVATURE METHOD DEPTH DATUM: RKB
 GRID CONVERGENCE: N/A MAGN.DEC.: 8.65 E MAGN.TO MAP CORR.: 8.65 E
 COMMENTS: SURVEY #0 = TIE IN SURVEY FROM SCIENTIFIC DRLG.INTL.GYRO
 SURVEY #32 = STRAIGHT LINE PROJECTED SURVEY TO WELL TD
 SURVEYS CORRECTED TO TRUE NORTH

===== MWD SURVEY PROGRAM

Ver: 3.10 PC (4-Jun-87) =====

Date: 1/4/2002 Time: 18:27:31 PAGE: 1
 Filename: "01165.SRV" Description: "North Hobbs G/SA Unit 843"
 Target Coordinates: 594.4 S 506.0 W Target TVD: 4319.000
 Using Minimum Curvature Method.

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	--- RECTANGULAR COORDINATES (feet)	DOGLEG -SEVERITY DG/100FT
0	1645.0	0.39	61.870	0.0	1645.0	1.6	2.3 N 5.2 W	0.00
1	1718.0	1.30	223.800	73.0	1718.0	2.2	1.9 N 5.5 W	2.29
2	1812.0	3.70	233.000	94.0	1811.9	6.2	0.7 S 8.7 W	2.58
3	1906.0	6.10	225.400	94.0	1905.5	14.1	6.1 S 14.7 W	2.64
4	1997.0	8.00	226.200	91.0	1995.8	25.2	13.8 S 22.7 W	2.09
5	2091.0	11.00	219.500	94.0	2088.5	40.7	25.3 S 33.1 W	3.40
6	2182.0	13.50	217.300	91.0	2177.5	60.0	40.4 S 45.1 W	2.79
7	2276.0	15.60	219.700	94.0	2268.4	83.6	58.9 S 59.8 W	2.32
8	2368.0	17.80	218.300	92.0	2356.5	110.0	79.4 S 76.4 W	2.43
9	2462.0	20.00	217.100	94.0	2445.5	140.5	103.5 S 95.0 W	2.38
10	2555.0	21.90	217.100	93.0	2532.3	173.6	130.1 S 115.1 W	2.04
11	2649.0	22.30	217.600	94.0	2619.4	209.0	158.2 S 136.5 W	0.47
12	2741.0	21.90	217.500	92.0	2704.7	243.5	185.6 S 157.6 W	0.44
13	2834.0	21.00	218.000	93.0	2791.2	277.5	212.5 S 178.5 W	0.99
14	2927.0	20.90	218.400	93.0	2878.1	310.7	238.6 S 199.0 W	0.19
15	3018.0	20.70	218.200	91.0	2963.1	343.0	264.0 S 219.1 W	0.23
16	3108.0	19.00	219.900	90.0	3047.8	373.6	287.7 S 238.3 W	1.99
17	3199.0	18.50	220.600	91.0	3134.0	402.8	310.1 S 257.2 W	0.60
18	3291.0	17.60	219.500	92.0	3221.4	431.3	331.9 S 275.5 W	1.05
19	3384.0	17.10	217.700	93.0	3310.2	459.0	353.6 S 292.8 W	0.79
20	3477.0	16.80	218.200	93.0	3399.2	486.1	374.9 S 309.5 W	0.36
21	3571.0	16.50	219.700	94.0	3489.2	513.0	395.9 S 326.4 W	0.56
22	3664.0	16.40	222.800	93.0	3578.4	539.4	415.7 S 343.8 W	0.95
23	3757.0	17.40	225.600	93.0	3667.4	566.3	435.0 S 362.7 W	1.39
24	3851.0	18.10	226.100	94.0	3756.9	594.9	455.0 S 383.2 W	0.76
25	3943.0	17.70	222.100	92.0	3844.5	623.1	475.3 S 402.9 W	1.40
26	4005.0	17.40	219.400	62.0	3903.6	641.8	489.4 S 415.1 W	1.40
27	4066.0	17.90	219.100	61.0	3961.7	660.3	503.8 S 426.8 W	0.83
28	4160.0	19.60	219.900	94.0	4050.7	690.5	527.1 S 446.0 W	1.83
29	4223.0	19.70	220.200	63.0	4110.1	711.6	543.3 S 459.6 W	0.23
30	4285.0	19.60	221.500	62.0	4168.4	732.5	559.1 S 473.3 W	0.72
31	4348.0	19.70	221.900	63.0	4227.8	753.7	574.9 S 487.4 W	0.27
32	4445.0	19.70	221.900	97.0	4319.1	786.4	599.2 S 509.2 W	0.00

--- Final Closure Direction: 220.358
 --- Final Closure Distance: 786.359 feet



DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Bravos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35743		Pool Code 31920	Pool Name HOBBS:GRAYBURG - SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT		Well Number 843
OGRID No. 157984	Operator Name Occidental Permian Limited Partnership		Elevation 3627

Surface Location

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	33	18 S	38 E		1933	SOUTH	294	EAST	LEA

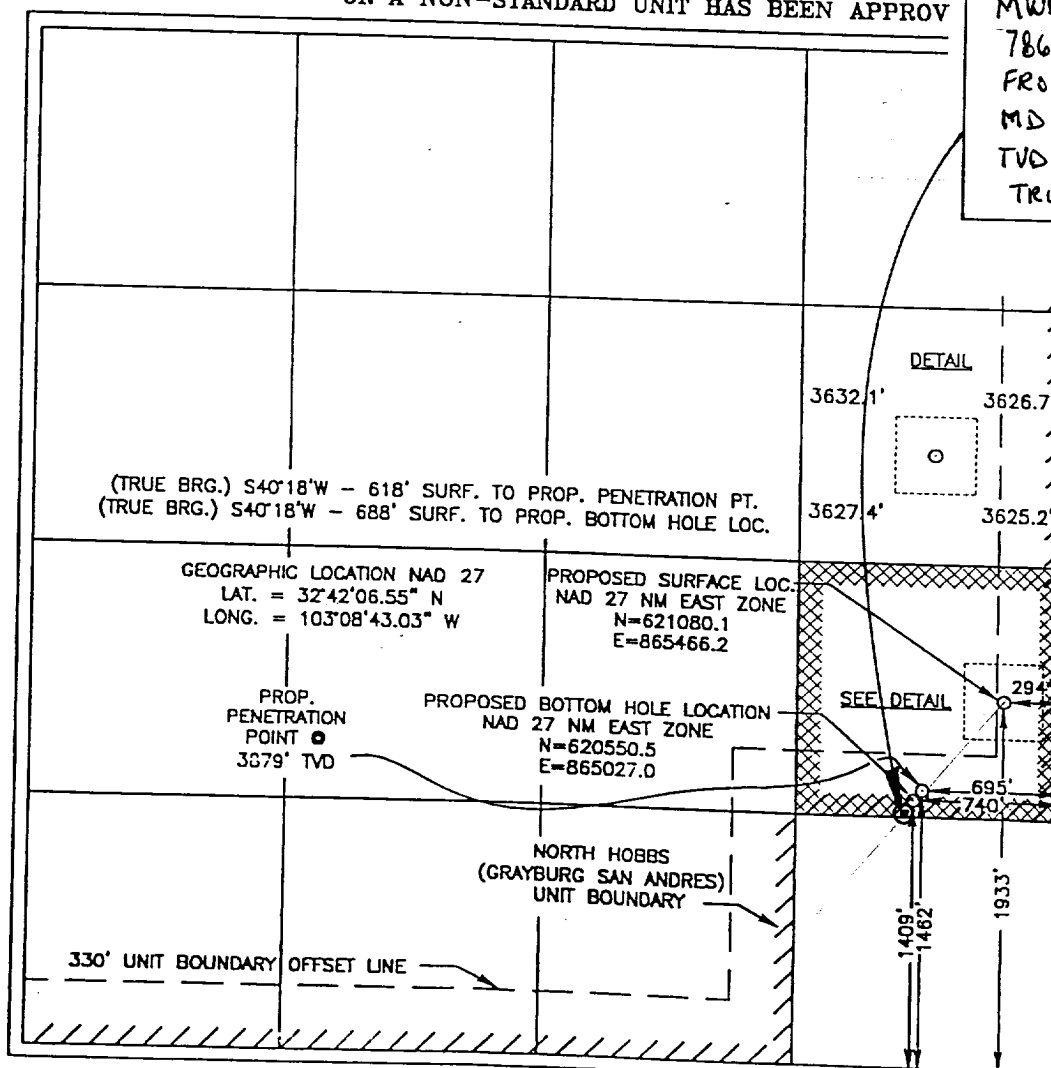
Bottom Hole Location If Different From Surface

UL or lot No. 1	Section 33	Township 18 S	Range 38 E	Lot Idn	Feet from the 1409	North/South line SOUTH	Feet from the 740	East/West line EAST	County LEA
Dedicated Acres 40	Joint or Infill I	Consolidation Code	Order No. N5L-4641						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION DATE

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL A
OR A NON-STANDARD UNIT HAS BEEN APPROV

MWD BOTTOM HOLE LOCATION
786.35' AT 220.358 AZIMUTH
FROM SURFACE HOLE LOCATION
MD 4445.0' SOUTH 599.2'
TVD 4319.1' WEST 509.2'
TRUE NORTH REFERENCE



DISCUSSION

Mark Stephens

Printed Name _____

Business Analyst (SG)

Title

October 16, 2001

Date _____

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.

APRIL 11, 2001

Date Surveyed _____

Signature & Seal of Professional Engineer

NEW MEXICO

01-11-1

Certificate No. **RONALD G. EDSON**
GARY EDSON

LMP

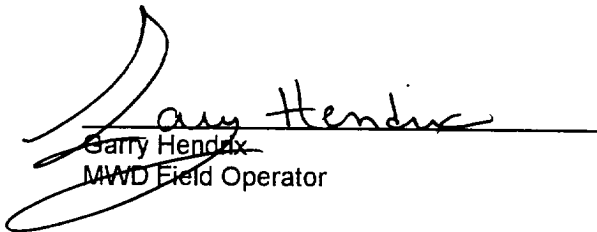
12041

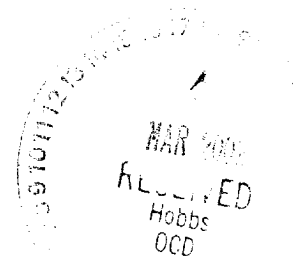


MWD Survey Certification

State of New Mexico
County of Lea

I, Garry Hendrix, certify that; I am employed by MWD Services, Inc.; that I did on the day(s) of 12/29/01 through 01/04/02 conduct or supervise the taking of MWD survey(s) from a depth of 1,718 feet to a depth of 4,445 feet; that the data is true, correct, complete and within the limitations of the tool set forth by MWD Services, Inc.; that I am authorized and qualified to make this report; that this report was conducted at the request of Occidental Permian, Ltd., for the North Hobbs G/SA Unit Well #843, API No. 30-025-35743 and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MWD Services, Inc.


Garry Hendrix
MWD Field Operator



District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator name and Address Occidental Permian Limited Partnership P.O. Box 4294 Houston, TX 77210-4294		² OGRID Number 157984
⁴ Property Code 19520	⁵ Property Name North Hobbs G/SA Unit	³ API Number 30-025-35743
		⁶ Well No. 843

⁷ Surface Location									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	33	18-S	38-E		1933	South	294	East	Lea

⁸ Proposed 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
I	33	18-S	38-E		1409	South	740	East	Lea
⁹ Proposed Pool 1 Hobbs; Grayburg - San Andres					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3627
¹⁶ Multiple No	¹⁷ Proposed Depth 4500'	¹⁸ Formation San Andres	¹⁹ Contractor Key Energy	²⁰ Spud Date December, 2001

²¹ Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
20	16	Conductor	40	50	Surface
13-3/8	9-5/8	32	1650	1050	Surface
8-3/4	7	23	4500	950	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

See attached for proposed drilling program
BOP Program 3000# Ram Preventer

Well to be drilled as a directional well due to a surface obstruction situated above the bottomhole target.

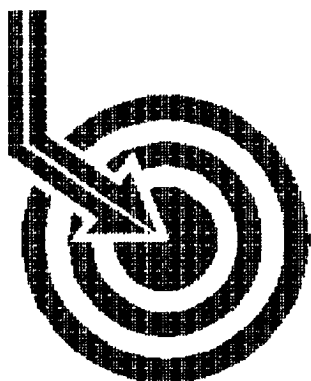
Note - Well will be drilled closed-loop - Oxy intends to haul drilling fluids and cuttings to Parabo Inc., Emice, New Mexico

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Mark Stephens
Printed name: Mark Stephens (281) 552-1158
Title: Business Analyst (SG)

OIL CONSERVATION DIVISION	
Approved by:	ORIGINAL PAUL F. KAUTZ
Title:	PETROLEUM ENGINEER
Approval Date: 19 100	Expiration Date:

Permit Expires 1 Year From Approval
Date Unless Drilling Underway



Scientific Drilling

OCCIDENTAL PERMIAN LTD.

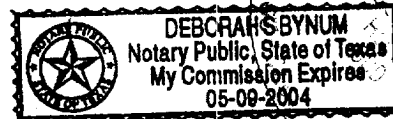
Field: North Hobbs
Site: Lea County, NM
Well: NHU #33-843
Wellpath: DH - Job #32D1201666
Survey: 12/28/01-1/4/02

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

Scott Moody.....Company Representative

Notorized this date 19th of February, 2002.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas



Scientific Drilling International

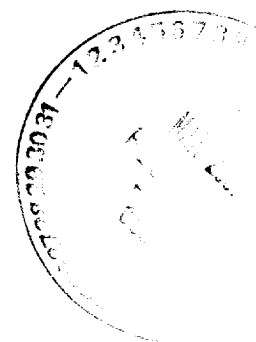
Survey Report

Company: OCCIDENTAL PERMIAN LTD.	Date: 2/12/2002	Time: 14:34:03	Page: 1
Field: North Hobbs	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0 above Mean Sea Level	
Well: NHU #33-843	Section (VS) Reference:	Well (0.0E,0.0N,220.4Azi)	
Wellpath: VH - Job #32K1201667	Survey Calculation Method:	Minimum Curvature	

Survey: 12/30/01 KSRG 0'-1645'	Start Date: 2/12/2002
Company: Scientific Drilling International	Engineer: Angel Guebara
Tool: Keeper	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.44	314.55	100.0	0.0	0.3	-0.3	0.4	314.55	0.44
200.0	0.57	327.67	200.0	-0.2	1.0	-0.8	1.3	319.70	0.17
300.0	0.58	309.01	300.0	-0.3	1.7	-1.5	2.2	319.07	0.19
400.0	0.27	278.35	400.0	-0.2	2.1	-2.1	2.9	314.33	0.37
500.0	0.21	281.52	500.0	0.0	2.1	-2.5	3.3	310.19	0.06
600.0	0.24	277.03	600.0	0.2	2.2	-2.9	3.6	306.99	0.03
700.0	0.13	254.56	700.0	0.4	2.2	-3.2	3.9	304.12	0.13
800.0	0.20	120.46	800.0	0.5	2.1	-3.2	3.8	302.98	0.31
900.0	0.14	135.53	900.0	0.5	1.9	-2.9	3.5	302.67	0.07
1000.0	0.16	210.54	1000.0	0.6	1.7	-2.9	3.4	299.84	0.18
1100.0	0.28	266.71	1100.0	0.9	1.5	-3.2	3.6	295.47	0.23
1200.0	0.45	285.46	1200.0	1.3	1.6	-3.9	4.2	292.93	0.21
1300.0	0.58	279.57	1300.0	1.7	1.8	-4.7	5.1	291.04	0.14
1400.0	0.27	305.88	1400.0	2.0	2.0	-5.4	5.8	290.64	0.36
1500.0	0.18	348.46	1500.0	1.9	2.3	-5.7	6.1	292.46	0.18
1600.0	0.32	121.04	1600.0	1.7	2.3	-5.4	5.9	293.32	0.46
1645.0	0.39	61.87	1645.0	1.6	2.4	-5.2	5.7	294.35	0.79



Scientific Drilling International

Survey Report

Company: OCCIDENTAL PERMIAN LTD.
 Field: North Hobbs
 Site: Lea County, NM
 Well: NHU #33-843
 Wellpath: DH - Job #32D1201666

Date: 2/12/2002 Time: 14:37:33 Page: 1
 Co-ordinate(NE) Reference: Site: Lea County, NM, True North
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Section (VS) Reference: Well (0.0E,0.0N,220.4Azi)
 Survey Calculation Method: Minimum Curvature

Survey: 12/28/01-1/4/02
 MWD 1718'-4445'

Start Date: 2/12/2002

Company: SDI w/MWD
 Tool: Keeper

Engineer: Brusenhan/Hendrix

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
1645.0	0.39	61.87	1645.0	1.6	2.4	-5.2	5.7	294.35	0.00
1718.0	1.30	223.80	1718.0	2.2	1.9	-5.6	5.9	288.64	2.29
1812.0	3.70	233.00	1811.9	6.2	-0.7	-8.7	8.7	265.27	2.58
1906.0	6.10	225.40	1905.5	14.1	-6.1	-14.7	15.9	247.61	2.64
1997.0	8.00	226.20	1995.8	25.3	-13.8	-22.7	26.6	238.65	2.09
2091.0	11.00	219.50	2088.5	40.7	-25.3	-33.1	41.7	232.66	3.40
2182.0	13.50	217.30	2177.5	60.0	-40.4	-45.1	60.6	228.12	2.79
2276.0	15.60	219.70	2268.4	83.6	-58.9	-59.8	83.9	225.45	2.32
2368.0	17.80	218.30	2356.5	110.0	-79.4	-76.4	110.2	223.90	2.43
2462.0	20.00	217.10	2445.5	140.5	-103.5	-95.0	140.6	222.55	2.38
2555.0	21.90	217.10	2532.3	173.6	-130.1	-115.1	173.7	221.51	2.04
2649.0	22.30	217.60	2619.4	209.0	-158.2	-136.6	209.0	220.80	0.47
2741.0	21.90	217.50	2704.7	243.5	-185.6	-157.7	243.5	220.34	0.44
2834.0	21.00	218.00	2791.2	277.5	-212.5	-178.5	277.5	220.02	0.99
2927.0	20.90	218.40	2878.1	310.7	-238.6	-199.0	310.7	219.83	0.19
3018.0	20.70	218.20	2963.1	343.0	-264.0	-219.1	343.1	219.69	0.23
3108.0	19.00	219.90	3047.8	373.6	-287.7	-238.3	373.6	219.63	1.99
3199.0	18.50	220.60	3134.0	402.8	-310.1	-257.2	402.9	219.68	0.60
3291.0	17.60	219.50	3221.4	431.3	-331.9	-275.5	431.4	219.70	1.05
3384.0	17.10	217.70	3310.2	459.0	-353.6	-292.8	459.1	219.63	0.79
3477.0	16.80	218.20	3399.2	486.1	-374.9	-309.5	486.2	219.54	0.36
3571.0	16.50	219.70	3489.2	513.1	-395.9	-326.4	513.1	219.51	0.56
3664.0	16.40	222.80	3578.4	539.4	-415.7	-343.8	539.4	219.59	0.95
3757.0	17.40	225.60	3667.4	566.3	-435.0	-362.7	566.4	219.82	1.39
3851.0	18.10	226.10	3756.9	594.9	-455.0	-383.2	594.9	220.11	0.76
3943.0	17.70	222.10	3844.5	623.1	-475.3	-402.9	623.1	220.29	1.40
4005.0	17.40	219.40	3903.6	641.8	-489.4	-415.1	641.8	220.30	1.40
4066.0	17.90	219.10	3961.7	660.3	-503.8	-426.8	660.3	220.27	0.83
4160.0	19.60	219.90	4050.7	690.5	-527.1	-446.0	690.5	220.24	1.83
4223.0	19.70	220.20	4110.1	711.6	-543.3	-459.7	711.7	220.23	0.23
4285.0	19.60	221.50	4168.4	732.5	-559.1	-473.3	732.5	220.25	0.72
4348.0	19.70	221.90	4227.8	753.7	-574.9	-487.4	753.7	220.29	0.27
4445.0	19.70	221.90	4319.1	786.4	-599.2	-509.2	786.4	220.36	0.00

