

Job Number: SVMO-140680
 Company: Yates Petroleum Corporation
 Lease/Well: Focus BDB Fed 1-H
 Location: Eddy County, NM
 Rig Name: McVay #10
 RKB: 18.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.30°
 Grid: East To Grid North
 File name: S:\2014SU-1\YATES\MOIFOCUSB-1\1H.SVY
 Date/Time: 28-May-14 / 08:56
 Curve Name: Surface - 3600' M.D. (Rate Gyro)

MS SURVEY

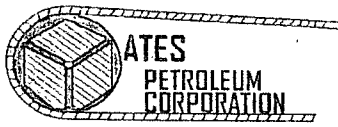
WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 91.09
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 3600' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
James Gally 5/28/14
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.34	239.57	100.00	-.15	-.26	-.25	.30	239.57	.34
200.00	.50	303.54	200.00	-.06	-.88	-.87	.88	266.11	.47
300.00	.81	326.34	299.99	.77	-1.63	-1.65	1.80	295.27	.40
400.00	.83	326.70	399.98	1.96	-2.42	-2.46	3.12	309.05	.02
500.00	.93	336.57	499.97	3.31	-3.14	-3.20	4.57	316.54	.18
600.00	.98	341.98	599.95	4.87	-3.73	-3.82	6.13	322.58	.10
700.00	.93	338.88	699.94	6.44	-4.28	-4.41	7.74	326.37	.07
800.00	1.15	2.92	799.92	8.20	-4.53	-4.68	9.37	331.11	.48
900.00	1.28	6.79	899.90	10.31	-4.34	-4.54	11.19	337.16	.15

30 015 39421

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	1.37	17.02	999.88	12.56	-3.86	-4.10	13.14	342.92	.25
1100.00	1.30	36.37	1099.85	14.62	-2.84	-3.12	14.89	349.01	.45
1200.00	1.31	44.66	1199.82	16.35	-1.36	-1.67	16.40	355.24	.19
1300.00	1.34	43.70	1299.80	18.01	.25	-.09	18.01	.79	.04
1400.00	1.33	44.61	1399.77	19.68	1.87	1.50	19.77	5.43	.02
1500.00	1.34	42.99	1499.74	21.36	3.48	3.08	21.64	9.27	.04
1600.00	1.25	46.03	1599.72	22.97	5.07	4.63	23.52	12.44	.11
1700.00	1.25	48.23	1699.69	24.46	6.67	6.20	25.35	15.25	.05
1800.00	1.21	41.17	1799.67	25.98	8.17	7.68	27.23	17.47	.16
1900.00	1.07	46.13	1899.65	27.42	9.54	9.02	29.03	19.19	.17
2000.00	1.02	40.26	1999.63	28.74	10.79	10.24	30.70	20.58	.12
2100.00	1.37	65.04	2099.61	29.93	12.45	11.88	32.41	22.59	.62
2200.00	1.43	77.20	2199.58	30.71	14.75	14.16	34.07	25.66	.30
2300.00	1.73	96.54	2299.55	30.81	17.47	16.88	35.42	29.55	.61
2400.00	1.91	100.79	2399.49	30.33	20.60	20.02	36.67	34.19	.22
2500.00	2.10	104.65	2499.43	29.55	24.01	23.45	38.08	39.09	.23
2600.00	2.13	110.33	2599.37	28.45	27.53	26.98	39.58	44.06	.21
2700.00	2.03	110.69	2699.30	27.17	30.93	30.40	41.17	48.70	.10
2800.00	2.07	112.05	2799.24	25.87	34.26	33.76	42.93	52.94	.06
2900.00	2.07	115.68	2899.17	24.41	37.56	37.09	44.79	56.98	.13
3000.00	2.03	120.09	2999.11	22.74	40.72	40.28	46.64	60.82	.16
3100.00	1.92	123.82	3099.05	20.92	43.64	43.24	48.40	64.39	.17
3200.00	2.07	124.85	3198.99	18.95	46.52	46.15	50.23	67.83	.15
3300.00	2.01	125.51	3298.92	16.90	49.43	49.10	52.24	71.12	.06
3400.00	2.07	125.42	3398.86	14.84	52.33	52.04	54.39	74.17	.06
3500.00	2.22	123.36	3498.79	12.73	55.42	55.16	56.86	77.07	.17
Last Survey Depth Recorded									
3600.00	2.24	121.76	3598.71	10.63	58.70	58.48	59.65	79.73	.07



Yates Petroleum Corp.

Eddy County, NM(NAD83)

Focus "BDB" Federal

#1H

OH

Survey: MWD #1

Standard Survey Report

01 June, 2014



Wellplanning Survey Report

Company: Yates Petroleum Corp.	Local Co-ordinate Reference: Well #1H	
Project: Eddy County, NM(NAD83)	TVD Reference: WELL @ 3350.5usft (Original Well Elev)	
Site: Focus "BDB" Federal	MD Reference: WELL @ 3350.5usft (Original Well Elev)	
Well: #1H	North Reference: Grid	
Wellbore: OH	Survey Calculation Method: Minimum Curvature	
Design: OH	Database: EDM 5000.1 Single User Db	

Project: Eddy County, NM(NAD83)		
Map System: US State Plane 1983	System Datum: Mean Sea Level	
Geo Datum: North American Datum 1983		
Map Zone: New Mexico Eastern Zone		

Site: Focus "BDB" Federal			
Site Position:	Northing: 590,390.88 usft	Latitude: 32° 37' 21.507 N	
From: Map	Easting: 638,191.62 usft	Longitude: 104° 1' 7.482 W	
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.17 °	

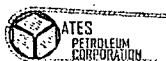
Well: #1H			
Well Position	Northing: 590,390.88 usft	Latitude: 32° 37' 21.507 N	
+N/-S 0.0 usft	Easting: 638,191.62 usft	Longitude: 104° 1' 7.482 W	
+E/-W 0.0 usft	Wellhead Elevation: usft	Ground Level: 3,332.0 usft	
Position Uncertainty 0.0 usft			

Wellbore: OH			
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	4/25/2014	(°) 7.47
			Dip Angle (°) 60.41
			Field Strength (nT) 48,522

Design: OH			
Audit Notes:			
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 91.09

Survey Program		Date: 6/1/2014
From (usft)	To (usft)	Survey (Wellbore)
3,673.0	12,771.0	MWD #1 (OH)
		Tool Name
		MWD
		Description
		MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,600.0	2.24	121.76	3,598.7	10.6	58.7	58.5	0.00	0.00	0.00
3,673.0	1.50	116.80	3,671.7	9.5	60.8	60.6	1.04	-1.01	-6.79
3,768.0	1.40	119.10	3,766.6	8.3	62.9	62.7	0.12	-0.11	2.42
3,863.0	1.30	125.20	3,861.6	7.1	64.8	64.6	0.18	-0.11	6.42
3,958.0	1.40	128.40	3,956.6	5.8	66.6	66.4	0.13	0.11	3.37
4,053.0	0.90	98.70	4,051.6	5.0	68.2	68.1	0.80	-0.53	-31.26
4,147.0	0.80	99.60	4,145.6	4.7	69.6	69.5	0.11	-0.11	0.96
4,242.0	0.60	149.90	4,240.6	4.2	70.5	70.4	0.65	-0.21	52.95
4,337.0	0.80	215.80	4,335.6	3.2	70.4	70.3	0.82	0.21	69.37
4,432.0	1.30	223.20	4,430.5	1.9	69.2	69.2	0.54	0.53	7.79



Wellplanning

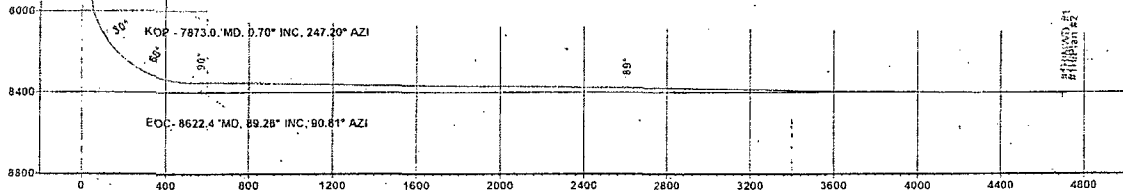
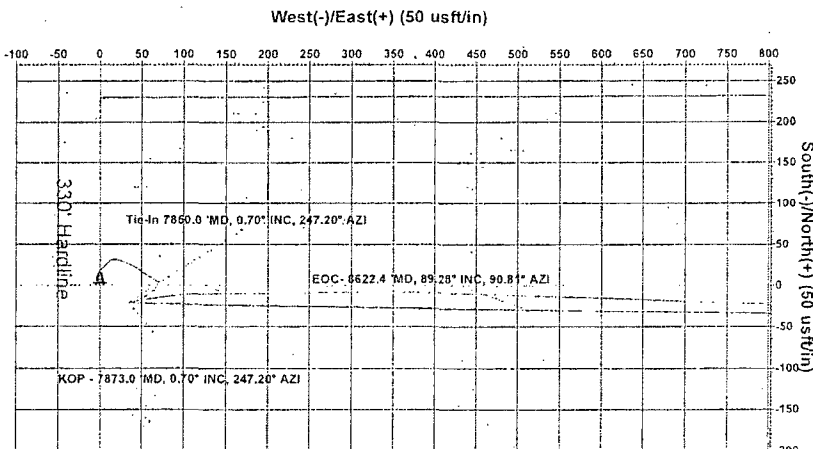
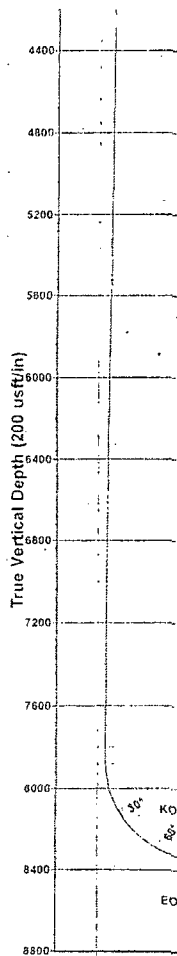
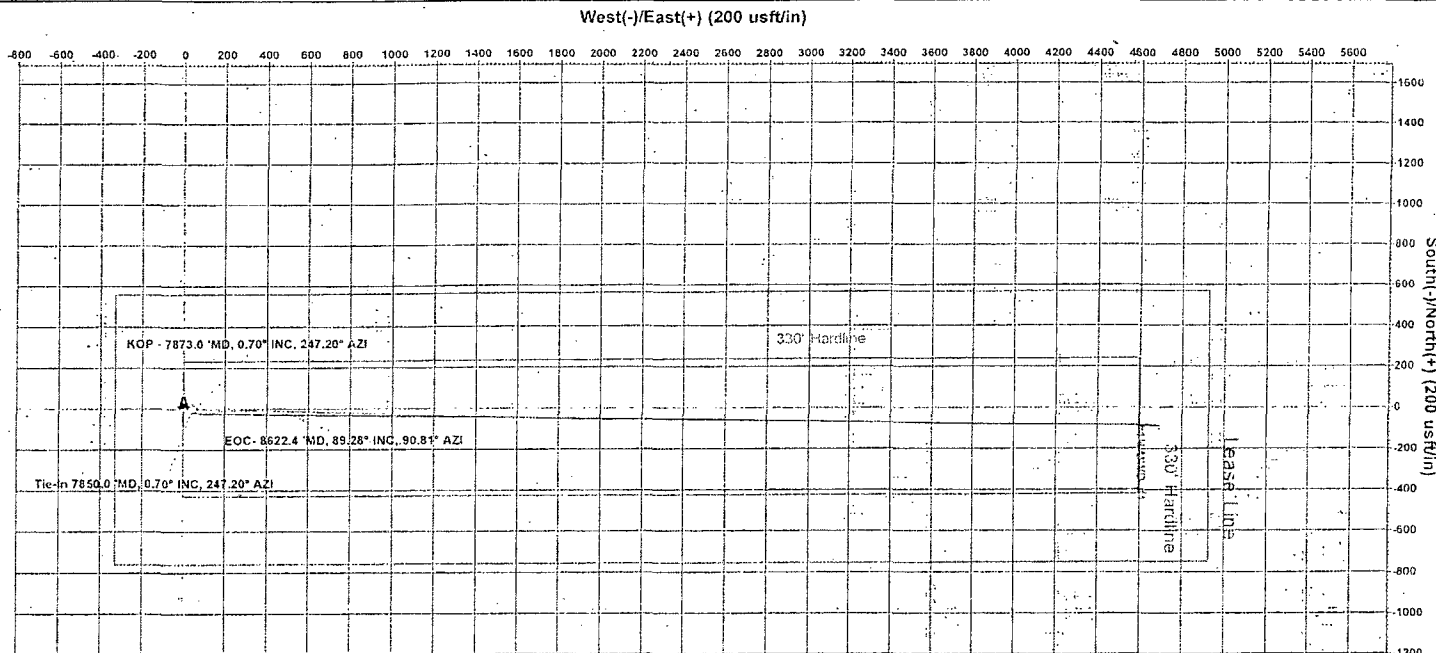
Survey Report

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, NM(NAD83)	TVD Reference:	WELL @ 3350.5usft (Original Well Elev)
Site:	Focus "BDB" Federal	MD Reference:	WELL @ 3350.5usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,527.0	1.10	205.40	4,525.5	0.3	68.1	68.1	0.44	-0.21	-18.74
4,622.0	1.30	205.90	4,620.5	-1.5	67.2	67.3	0.21	0.21	0.53
4,717.0	0.80	211.60	4,715.5	-3.0	66.4	66.5	0.54	-0.53	6.00
4,812.0	1.20	217.50	4,810.5	-4.4	65.5	65.5	0.43	0.42	6.21
4,908.0	0.60	225.40	4,906.4	-5.5	64.5	64.6	0.64	-0.63	8.23
5,002.0	1.30	221.80	5,000.4	-6.7	63.4	63.6	0.75	0.74	-3.83
5,097.0	1.10	236.20	5,095.4	-8.0	62.0	62.1	0.38	-0.21	15.16
5,192.0	0.70	270.80	5,190.4	-8.5	60.6	60.8	0.69	-0.42	36.42
5,287.0	1.20	258.00	5,285.4	-8.7	59.1	59.2	0.57	0.53	-13.47
5,382.0	0.50	193.50	5,380.4	-9.3	58.0	58.2	1.14	-0.74	-67.89
5,477.0	0.70	210.90	5,475.4	-10.2	57.6	57.8	0.28	0.21	-18.32
5,572.0	1.10	223.00	5,570.4	-11.4	56.7	56.9	0.46	0.42	12.74
5,667.0	0.40	228.60	5,665.4	-12.2	55.8	56.0	0.74	-0.74	5.89
5,762.0	0.50	220.30	5,760.4	-12.8	55.3	55.5	0.13	0.11	-8.74
5,857.0	0.90	222.80	5,855.3	-13.6	54.5	54.8	0.42	0.42	2.63
5,951.0	1.00	233.00	5,949.3	-14.7	53.4	53.6	0.21	0.11	10.85
6,046.0	1.00	247.10	6,044.3	-15.5	51.9	52.2	0.26	0.00	14.84
6,141.0	1.00	267.10	6,139.3	-15.9	50.4	50.6	0.37	0.00	21.05
6,236.0	1.00	262.40	6,234.3	-16.0	48.7	49.0	0.09	0.00	-4.95
6,331.0	0.70	242.00	6,329.3	-16.4	47.4	47.7	0.44	-0.32	-21.47
6,426.0	1.10	262.20	6,424.3	-16.8	46.0	46.3	0.53	0.42	21.26
6,521.0	1.00	223.50	6,519.3	-17.5	44.5	44.8	0.74	-0.11	-40.74
6,616.0	0.70	209.80	6,614.2	-18.6	43.6	44.0	0.38	-0.32	-14.42
6,711.0	0.90	225.40	6,709.2	-19.6	42.8	43.2	0.31	0.21	16.42
6,806.0	1.10	253.20	6,804.2	-20.4	41.4	41.8	0.55	0.21	29.26
6,901.0	0.80	279.20	6,899.2	-20.6	39.9	40.3	0.55	-0.32	27.37
6,996.0	0.50	301.40	6,994.2	-20.2	38.8	39.2	0.35	-0.21	23.37
7,091.0	0.40	316.70	7,089.2	-19.7	38.1	38.5	0.25	-0.21	16.11
7,186.0	0.60	248.30	7,184.2	-19.7	37.4	37.8	0.62	0.21	-72.00
7,295.0	0.50	208.90	7,293.2	-20.3	36.7	37.1	0.35	-0.09	-36.15
7,388.0	0.10	278.50	7,386.2	-20.6	36.4	36.8	0.51	-0.43	74.84
7,481.0	0.30	271.90	7,479.2	-20.6	36.1	36.5	0.22	0.22	-7.10
7,573.0	0.20	319.00	7,571.2	-20.5	35.7	36.1	0.24	-0.11	51.20
7,666.0	0.40	250.90	7,664.2	-20.5	35.3	35.7	0.40	0.22	-73.23
7,758.0	0.40	214.20	7,756.2	-20.8	34.8	35.2	0.27	0.00	-39.89
7,805.0	0.70	247.20	7,803.2	-21.1	34.5	34.9	0.90	0.64	70.21
7,869.0	1.80	95.90	7,867.2	-21.3	35.1	35.5	3.81	1.72	-236.41
7,900.0	5.30	81.00	7,898.1	-21.2	37.0	37.4	11.58	11.29	-48.06
7,931.0	8.40	76.20	7,928.9	-20.4	40.6	41.0	10.16	10.00	-15.48
7,963.0	11.60	74.40	7,960.4	-19.0	46.0	46.4	10.05	10.00	-5.63
7,993.0	15.00	78.50	7,989.6	-17.4	52.7	53.0	11.75	11.33	13.67
8,024.0	18.60	81.50	8,019.3	-15.9	61.5	61.8	11.94	11.61	9.68
8,055.0	21.80	82.50	8,048.3	-14.4	72.1	72.4	10.38	10.32	3.23
8,086.0	25.30	83.80	8,076.8	-12.9	84.4	84.7	11.41	11.29	4.19



Project: Eddy County, NM(NAD83)
 Site: Focus "BDB" Federal
 Well: #1H
 Wellbore: OH
 Plan: Plan #2 (#1H/OH)



Vertical Section at 91.08° (200 usft/in)

#1H

Ground Elevation:: 3332.0
 RKB Elevation: WELL @ 3350.5usft (Original Well Elev)
 Rig Name: Original Well Elev

Longitude Northing Easting Latitude
 590390.87 638191.62 32° 37' 21.507 N 104° 1' 7.482 W

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	7850.0	1.09	101.16	7848.2	-21.3	34.7	0.00	0.00	35.0
2	7873.0	1.09	101.16	7871.2	-21.4	35.1	0.00	0.00	35.5
3	8630.5	89.28	90.81	8354.0	-29.9	520.8	11.64	-10.36	521.3
4	12806.2	89.28	90.81	8406.5	-88.9	4695.7	0.00	0.00	4696.5 PBHL(FBF#1)



Azimuths to Grid North
 True North: -0.17°
 Magnetic North: 7.30°

Magnetic Field
 Strength: 48521.8snT
 Dip Angle: 60.41°
 Date: 4/25/2014
 Model: IGRF2010

PROJECT DETAILS: Eddy County, NM(NAD83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level
 Local North: Grid



Terra Directional Services LLC
 322 Spring Hill Drive, Suite A300, Spring, Tx 77386
 Phone: 432-425-7532



State of New Mexico
County of Eddy

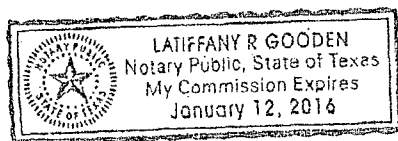
I, Michael K. Baber, certify that: I am employed by Terra Directional Services LLC; that I did on the day(s) of 05/17/14 through 05/31/14 conduct or supervise the taking of a MWD survey from a depth of 3673 feet to a depth 12771 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Terra Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Yates Petroleum for the Focus BDB Federal #1H Well API 30-015-39421 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Terra Directional Services LLC.

A handwritten signature in black ink, appearing to read "Michael K. Baber", written over a horizontal line.

Michael K. Baber
MWD Operations Manager

State of Texas
County of Brewster

Before me, a notary public, on this day personally appeared Michael K. Baber, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.

A handwritten signature in black ink, written over a horizontal line.
Notary Public's Signature



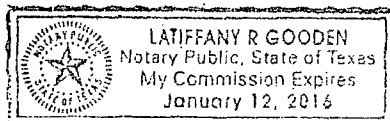
Customer Name: Yates Petroleum Corp.
Well Name: Focus BDB Federal #
API Number: 30-015-39421
County / Parish: Eddy Co. New Mexico

M.W.D. Operator: Bob Gary
Directional Driller: Jack Chance
Total Magnetic Correction: 7.3
Job #: NM-436

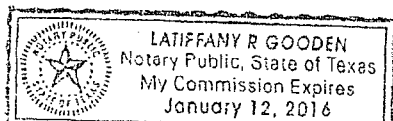
Vertical Section: 91.09

Tie In Survey(s) Provided By:

	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	3600.00	2.24	121.76	3598.71	58.49	10.63	58.70	0.00	0.00	0.00
1	3673.00	1.50	116.80	3671.67	60.58	9.45	60.77	61.50	81.16	1.04
2	3768.00	1.40	119.10	3766.64	62.72	8.32	62.89	63.44	82.46	0.12
3	3863.00	1.30	125.20	3861.61	64.64	7.14	64.78	65.18	83.71	0.18
4	3958.00	1.40	128.40	3956.59	66.45	5.80	66.57	66.83	85.02	0.13
5	4053.00	0.90	98.70	4051.57	68.11	4.96	68.22	68.40	85.84	0.80
6	4147.00	0.80	99.60	4145.56	69.50	4.74	69.60	69.76	86.10	0.11
7	4242.00	0.60	149.90	4240.55	70.41	4.20	70.50	70.63	86.59	0.65
8	4337.00	0.80	215.80	4335.55	70.29	3.23	70.36	70.44	87.37	0.82
9	4432.00	1.30	223.20	4430.53	69.19	1.91	69.24	69.26	88.42	0.54
10	4527.00	1.10	205.40	4525.51	68.09	0.30	68.11	68.11	89.75	0.44
11	4622.00	1.30	205.90	4620.49	67.26	-1.49	67.25	67.26	91.27	0.21
12	4717.00	0.80	211.60	4715.47	66.47	-3.03	66.43	66.50	92.61	0.54
13	4812.00	1.20	217.50	4810.46	65.55	-4.38	65.48	65.62	93.83	0.43
14	4908.00	0.60	225.40	4906.45	64.60	-5.53	64.51	64.74	94.90	0.64
15	5002.00	1.30	221.80	5000.43	63.56	-6.67	63.44	63.79	96.00	0.75
16	5097.00	1.10	236.20	5095.41	62.11	-7.98	61.97	62.48	97.34	0.38
17	5192.00	0.70	270.80	5190.40	60.78	-8.48	60.63	61.22	97.97	0.69
18	5287.00	1.20	258.00	5285.39	59.23	-8.68	59.08	59.71	98.36	0.57
19	5382.00	0.50	193.50	5380.38	58.17	-9.29	58.01	58.75	99.10	1.14
20	5477.00	0.70	210.90	5475.37	57.80	-10.19	57.61	58.51	100.03	0.28
21	5572.00	1.10	223.00	5570.36	56.90	-11.36	56.69	57.82	101.33	0.46
22	5667.00	0.40	228.60	5665.35	56.04	-12.24	55.82	57.15	102.37	0.74
23	5762.00	0.50	220.30	5760.35	55.54	-12.78	55.31	56.76	103.01	0.13
24	5857.00	0.90	222.80	5855.34	54.78	-13.64	54.53	56.21	104.05	0.42
25	5951.00	1.00	233.00	5949.33	53.64	-14.68	53.37	55.35	105.38	0.21
26	6046.00	1.00	247.10	6044.31	52.23	-15.50	51.95	54.21	106.61	0.26
27	6141.00	1.00	267.10	6139.30	50.65	-15.86	50.36	52.80	107.49	0.37
28	6236.00	1.00	262.40	6234.29	49.00	-16.02	48.71	51.27	108.20	0.09
29	6331.00	0.70	242.00	6329.28	47.68	-16.40	47.37	50.13	109.09	0.44
30	6426.00	1.10	262.20	6424.26	46.27	-16.79	45.96	48.93	110.07	0.53
31	6521.00	1.00	223.50	6519.25	44.81	-17.52	44.48	47.81	111.50	0.74
32	6616.00	0.70	209.80	6614.24	43.97	-18.62	43.62	47.43	113.12	0.38
33	6711.00	0.90	225.40	6709.23	43.17	-19.65	42.80	47.10	114.66	0.31
34	6806.00	1.10	253.20	6804.22	41.78	-20.44	41.40	46.17	116.28	0.55
35	6901.00	0.80	279.20	6899.20	40.26	-20.60	39.87	44.88	117.32	0.55
36	6996.00	0.60	301.40	6994.20	39.17	-20.23	38.79	43.75	117.54	0.35
37	7091.00	0.40	316.70	7089.19	38.51	-19.73	38.14	42.94	117.35	0.25
38	7186.00	0.60	248.30	7184.19	37.82	-19.67	37.45	42.30	117.71	0.62
39	7295.00	0.50	208.90	7293.18	37.07	-20.30	36.69	41.93	118.96	0.35
40	7388.00	0.10	278.50	7386.18	36.80	-20.64	36.41	41.86	119.55	0.51
41	7481.00	0.30	271.90	7479.18	36.48	-20.62	36.09	41.57	119.75	0.22
42	7573.00	0.20	319.00	7571.18	36.13	-20.50	35.74	41.20	119.83	0.24
43	7666.00	0.40	250.90	7664.18	35.71	-20.48	35.33	40.84	120.10	0.40
44	7758.00	0.40	214.20	7756.18	35.24	-20.85	34.85	40.61	120.89	0.27
45	7805.00	0.70	247.20	7803.18	34.89	-21.10	34.49	40.43	121.45	0.90



46	7869.00	1.80	95.90	7867.17	35.53	-21.35	35.13	41.11	121.29	3.81
47	7900.00	5.30	81.00	7898.10	37.43	-21.18	37.03	42.66	119.77	11.58
48	7931.00	8.40	76.20	7928.88	41.02	-20.41	40.64	45.48	116.67	10.16
49	7963.00	11.60	74.40	7960.39	46.37	-18.99	46.01	49.78	112.43	10.05
50	7993.00	15.00	78.50	7999.58	53.05	-17.40	52.72	55.52	108.27	11.75
51	8024.00	18.60	81.50	8019.25	61.84	-15.87	61.55	63.56	104.46	11.94
52	8055.00	21.80	82.50	8048.34	72.41	-14.39	72.15	73.57	101.28	10.38
53	8086.00	25.30	83.80	8076.76	84.67	-12.92	84.44	85.43	98.70	11.41
54	8116.00	28.50	85.50	8103.51	98.16	-11.67	97.96	98.65	96.79	10.97
55	8147.00	31.70	87.50	8130.32	113.65	-10.73	113.47	113.98	95.40	10.82
56	8178.00	35.40	88.90	8156.16	130.76	-10.21	130.59	130.99	94.47	12.19
57	8209.00	39.10	89.60	8180.83	149.51	-9.97	149.35	149.68	93.82	12.01
58	8240.00	42.20	89.40	8204.34	169.70	-9.79	169.54	169.82	93.30	10.01
59	8270.00	46.30	89.60	8225.83	190.62	-9.61	190.47	190.71	92.89	13.67
60	8301.00	49.90	89.20	8246.53	213.68	-9.36	213.54	213.74	92.51	11.65
61	8332.00	53.60	88.90	8265.72	238.00	-8.96	237.88	238.04	92.16	11.96
62	8363.00	57.90	89.00	8283.16	263.60	-8.49	263.49	263.63	91.85	13.87
63	8394.00	62.00	89.20	8298.68	290.41	-8.07	290.31	290.43	91.59	13.24
64	8425.00	66.00	89.90	8312.27	318.26	-7.85	318.17	318.27	91.41	13.06
65	8455.00	70.80	90.30	8323.31	346.14	-7.90	346.05	346.14	91.31	16.05
66	8486.00	74.60	90.80	8332.52	375.73	-8.19	375.65	375.73	91.25	12.35
67	8517.00	78.50	91.10	8339.73	405.88	-8.69	405.79	405.88	91.23	12.62
68	8546.00	81.30	92.00	8344.82	434.42	-9.46	434.32	434.43	91.25	10.13
69	8577.00	83.30	92.20	8348.97	465.14	-10.59	465.02	465.14	91.30	6.48
70	8608.00	87.70	92.20	8351.40	496.03	-11.77	495.89	496.03	91.36	14.19
71	8639.00	90.50	91.90	8351.89	527.02	-12.88	526.87	527.03	91.40	9.08
72	8733.00	91.10	92.20	8350.58	620.99	-16.24	620.80	621.01	91.50	0.71
73	8825.00	89.80	92.70	8349.86	712.96	-20.18	712.71	712.99	91.62	1.51
74	8918.00	89.50	91.10	8350.42	805.95	-23.26	805.65	805.99	91.65	1.75
75	9013.00	88.10	91.10	8352.41	900.93	-25.08	900.61	900.96	91.60	1.47
76	9109.00	88.40	91.70	8355.35	996.88	-27.43	996.54	996.92	91.58	0.70
77	9201.00	89.30	93.30	8357.19	1088.83	-31.44	1088.43	1088.88	91.65	2.00
78	9295.00	88.90	92.00	8358.67	1182.78	-35.79	1182.31	1182.85	91.73	1.45
79	9390.00	88.10	90.40	8361.16	1277.74	-37.77	1277.26	1277.81	91.69	1.88
80	9485.00	89.40	90.40	8363.23	1372.71	-38.44	1372.23	1372.77	91.60	1.37
81	9580.00	90.40	91.70	8363.39	1467.71	-40.18	1467.21	1467.76	91.57	1.73
82	9675.00	89.30	92.00	8363.64	1562.70	-43.25	1562.16	1562.76	91.59	1.20
83	9770.00	90.00	92.40	8364.22	1657.68	-46.89	1657.09	1657.75	91.62	0.85
84	9865.00	88.90	93.40	8365.13	1752.62	-51.70	1751.96	1752.72	91.69	1.56
85	9958.00	89.40	91.90	8366.51	1845.58	-56.00	1844.84	1845.69	91.74	1.70
86	10052.00	89.70	89.40	8367.25	1939.56	-57.06	1938.83	1939.67	91.69	2.68
87	10147.00	88.90	89.90	8368.41	2034.52	-56.48	2033.82	2034.60	91.59	0.99
88	10242.00	90.00	89.20	8369.33	2129.48	-55.74	2128.81	2129.54	91.50	1.37
89	10336.00	90.10	89.00	8369.24	2223.43	-54.26	2222.80	2223.46	91.40	0.24
90	10429.00	89.60	89.60	8369.49	2316.38	-53.12	2315.79	2316.40	91.31	0.84
91	10524.00	89.20	90.40	8370.48	2411.36	-53.12	2410.78	2411.37	91.26	0.94
92	10617.00	89.30	91.00	8371.70	2504.35	-54.26	2503.77	2504.36	91.24	0.65
93	10712.00	89.40	91.00	8372.78	2599.34	-55.92	2598.75	2599.35	91.23	0.11
94	10806.00	88.50	91.50	8374.50	2693.32	-57.97	2692.71	2693.33	91.23	1.10
95	10900.00	88.60	91.50	8376.88	2787.29	-60.43	2786.65	2787.30	91.24	0.11
96	10994.00	88.80	91.70	8379.01	2881.26	-63.05	2880.58	2881.27	91.25	0.30
97	11088.00	88.60	91.30	8381.14	2975.24	-65.51	2974.53	2975.25	91.26	0.48
98	11183.00	89.00	91.70	8383.13	3070.21	-68.00	3069.47	3070.23	91.27	0.60
99	11278.00	88.20	90.40	8385.45	3165.18	-69.74	3164.43	3165.20	91.26	1.61
100	11373.00	88.10	90.40	8388.52	3260.12	-70.40	3259.38	3260.14	91.24	0.11
101	11469.00	87.70	90.40	8392.04	3356.05	-71.07	3355.31	3356.06	91.21	0.42
102	11564.00	88.60	91.00	8395.11	3451.00	-72.23	3450.25	3451.01	91.20	1.14
103	11658.00	89.80	91.50	8396.42	3544.99	-74.28	3544.22	3544.99	91.20	1.38
104	11746.00	89.40	92.20	8397.03	3632.98	-77.12	3632.17	3632.99	91.22	0.92
105	11841.00	89.90	91.50	8397.61	3727.97	-80.19	3727.12	3727.98	91.23	0.91



106	11935.00	89.50	91.30	8398.10	3821.96	-82.49	3821.09	3821.98	91.24	0.48
107	12030.00	89.40	90.80	8399.02	3916.96	-84.23	3916.07	3916.97	91.23	0.54
108	12123.00	88.60	89.60	8400.64	4009.93	-84.55	4009.05	4009.94	91.21	1.55
109	12218.00	90.00	89.70	8401.80	4104.89	-83.97	4104.04	4104.90	91.17	1.48
110	12313.00	90.50	90.10	8401.39	4199.87	-83.81	4199.04	4199.87	91.14	0.67
111	12408.00	90.30	90.10	8400.72	4294.85	-83.97	4294.03	4294.85	91.12	0.21
112	12503.00	90.00	89.90	8400.47	4389.84	-83.97	4389.03	4389.84	91.10	0.38
113	12598.00	89.50	89.70	8400.89	4484.81	-83.64	4484.03	4484.81	91.07	0.57
114	12693.00	88.90	89.40	8402.21	4579.77	-82.89	4579.02	4579.77	91.04	0.71
PTB	12771.00	88.90	89.40	8403.71	4657.72	-82.08	4657.00	4657.72	91.01	0.00

