Realtime Logs

Natural Formation Evaluation
Gamma Ray

BAKER HUGHES

Scale: **1:240**
TRUE VERTICAL DEPTH

Status: **FIELD PRINT**

API Number: 05-123-36605

Company: **Anadarko E&P**
Well: **Rattler 14N-3HZ**
Field: **Weld County (Kerr McGee)**
County: **Weld County** **State:** **United States**

Surface Location:
Latitude: 40° 10' 31.360" N
Longitude: 104° 45' 53.040" W
Section: 34 TWN: 3S Range: 66W

Other Services:
DIR

Permanent Datum (P.D.): Ground Level Elevation: 5008.00 ft.
Log Measured From: Rig Floor 17.00 ft. Above P.D.
Depth Reference: Driller's Depth

Elevations:
KB: N/A
DF: 5008.00 ft.
GL: 4991.00 ft.

Interval Logged		Dates		Magnetic Field Reference	
Top:	6680.0 ft.	Date From:	11/Jul/13	Dip Angle:	66.79°
Bottom:	12287.0 ft.	Date To:	17/Jul/13	Total Field Strength:	52766.5 nT
		Spud Date:	11/Jul/13		
				Azi Reference North:	True
				Mag to Reference North Correction:	8.60°

Borehole Record

Hole Size	From	To
13.500 in.	Surface	842.0 ft.
8.500 in.	842.0 ft.	7710.0 ft.
6.125 in.	7710.0 ft.	12287.0 ft.

Casing Record

Size	Weight	From	To
9.600 in.	36.00 lb/ft	Surface	842.0 ft.
7.000 in.	26.00 lb/ft	Surface	7698.0 ft.

Mud Record

Type	From	To
Water Based Mud	6680.0 ft.	12287.0 ft.

Deviation Record

Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
13.500 in.	Surface	0.0° / 0.0°	1.1° / 282.9°
8.500 in.	Vertical/Curve	1.1° / 282.9°	86.3° / 179.5°
6.125 in.	Lateral	86.3° / 179.5°	89.2° / 177.5°
		/	/
		/	/
		/	/

Acquisition System	Software Version	Other	
Advantage	2.20U4	Rig: / Contractor:	XTreme 8 / XTreme Coil Drilling
PATS	6.4.1.34	Job No:	5587474
		District: / Unit:	Rocky Mountains /

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Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval Top (ft.)	Logged Interval Bottom (ft.)	Bit Depth Interval From (ft.)	Bit Depth Interval To (ft.)	Date / Time Start	Date / Time End	Circ. Time (hrs.)
1	1	2	8.750	PDC		Rotary Steerable	6680.0	7668.0	872.0	7710.0	11/Jul/2013 19:10	14/Jul/2013 11:35	46
2	2	3	6.125	PDC		Rotary Steerable	7659.0	12236.0	7710.0	12287.0	15/Jul/2013 14:00	17/Jul/2013 11:00	34

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Gregory Dore	11/Jul/2013	15/Jul/2013	Kevin Sheridan	11/Jul/2013	17/Jul/2013	Nicholas Roosen	16/Jul/2013	17/Jul/2013

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cps)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
14/Jul/2013 06:07	2	6700.0	Water Based Mud	9.8	36	8.5	N/A	N/A	Flowline	2100	N/A
14/Jul/2013 14:00	2	7006.0	Water Based Mud	10.0	41	8.0	N/A	N/A	Flowline	2000	N/A
16/Jul/2013 12:00	2	9130.0	Water Based Mud	10.1	41	8.0	N/A	N/A	Flowline	1900	N/A
16/Jul/2013 18:00	2	9980.0	Water Based Mud	10.1	40	8.5	N/A	N/A	Flowline	2000	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg	API
TCDX	Downhole Temperature	degF
ROP_AVG	Rate of Penetration, 3.0 ft. Avg	ft/hr
WOB_AVG	Surface Weight on Bit, 1.0 ft. Avg	klbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	10073408	Directional	45.32	6.750	4.250
1	SRIG	12131406	Gamma	41.94	6.750	4.250
2	DIR	12235763	Directional	53.98	4.750	2.750
2	SRIG	10658453	Gamma	50.60	4.750	2.750

Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments

(1) Baker Hughes INTEQ run 1, utilized 6 1/2 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 842 to 7710 feet MD (842 to 7292 feet TVD)

(2) Baker Hughes INTEQ run 4 utilized 4 3/4 inch NaviGamma services (Gamma Ray, Directional) behind a 6 1/8 inch bit and steerable assembly from 7710 to 12287 feet MD (7292 to 7313 feet TVD)

(3) A sliding indicator is shown to the right edge of track 1 as a heavy line.

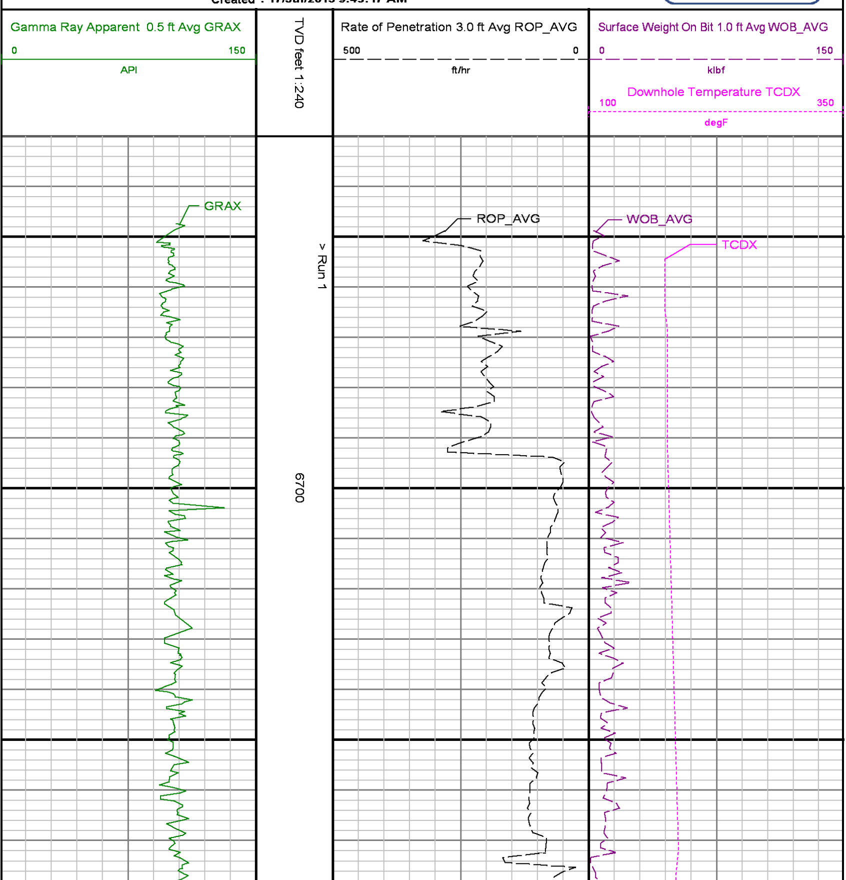
Remarks

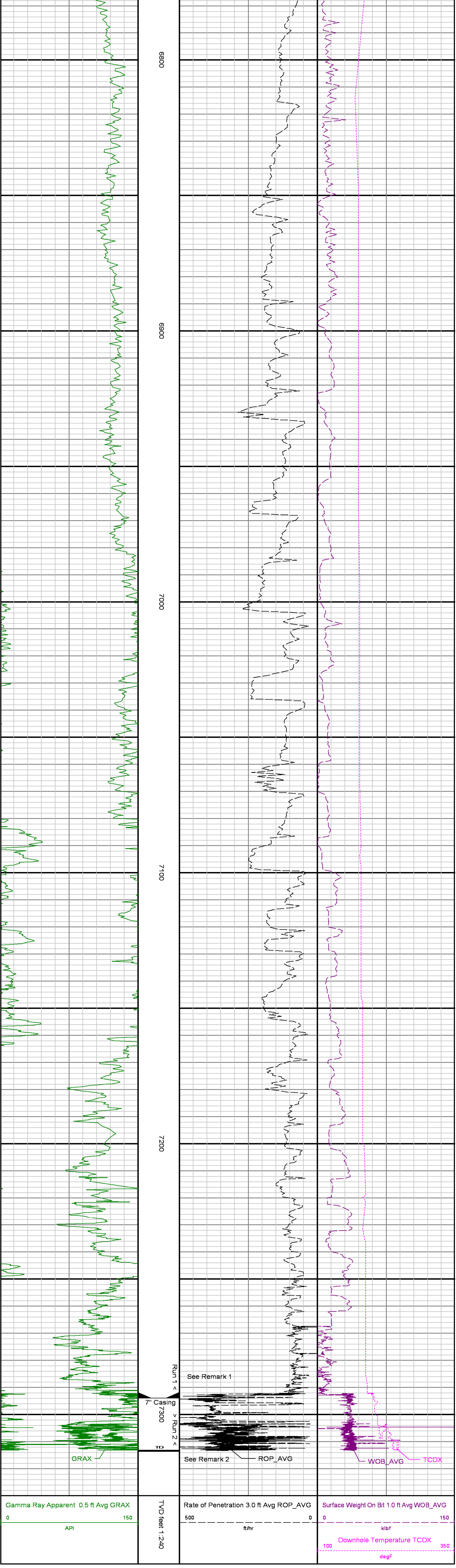
Number	Measured Depth (m.)	Hole Section (in.)	LWD Run No.	Remark
1	7700	8.500	1	The interval from 7668 to 7710 feet MD (7290 to 7292 feet TVD) was logged up to 60 hours after being drilled due to a trip out of the hole for casing and cement operations and picking up the lateral assembly.
2	12280	6.125	2	The interval from 12236 to 12287 feet MD (7312 to 7313 feet TVD) was not logged due to sensor offsets to bit at TD.

BAKER HUGHES

Company : **Anadarko E&P**
Well : **Rattler 14N-3HZ**
Interval : **6630.00 - 7330.00 feet**
Created : **17/Jul/2013 9:45:17 AM**

ADVANTAGE SYSTEM





ADVANTAGE Final Survey Listing

Operator	: Anadarko E&P	Field	: Weld County	API No	: 05-123-36605
Well	: Rattler 14N-3HZ	Rig	: XTreme 8	Job	: 5587474
Wellbore	: Rattler 14N-3HZ Orig Hole				

Well Origin

Latitude	40.1754 deg	Longitude	-104.7647 deg
North Reference	True	Drill Depth Zero	NULL
Vertical Datum is	Ground Level	Vertical Datum to DDZ	17.00 ft
Vertical Section North	0.00 ft	Vertical Section East	0.00 ft
Vertical Section Azimuth	180.0000 deg	Vertical Section Depth	0.00ft
Grid Convergence	0.0000 deg	Magnetic Declination	8.5975 deg
Total Correction	8.5975 deg	TVD Calculation Method	Minimal Curvature
D-Raw Calculation	Magcorr1	Local Magnetic Field	52766 nT
Local Magnetic Dip Angle	66.7889 deg	Local Gravity Field	9.802 m/s^2

Tie	MD	Incl	Azim	North	East	TVD	VS	Incr VS	Crs Len	DLS	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft

	0.00	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00				
U	762.00	1.0700	282.8800	-0.42	-3.30	761.98	0.42		762.00			
	881.00	0.8000	271.9500	-0.14	-5.21	880.96	0.14	1.93	119.00	0.27	-0.23	-9.18
	972.00	0.7900	27.2700	0.44	-5.56	971.96	-0.44	2.61	91.00	1.48	-0.01	126.73
	1072.00	1.0800	18.6400	1.94	-4.94	1071.95	-1.94	4.24	100.00	0.32	0.29	-8.63
	1161.00	0.5200	93.6700	2.71	-4.27	1160.94	-2.71	5.26	89.00	1.20	-0.63	84.30
	1252.00	0.6300	99.4300	2.60	-3.37	1251.93	-2.60	6.17	91.00	0.14	0.12	6.33
	1342.00	0.5800	85.3300	2.56	-2.42	1341.93	-2.56	7.11	90.00	0.17	-0.06	-15.67
	1433.00	0.5700	63.9300	2.79	-1.56	1432.92	-2.79	8.01	91.00	0.23	-0.01	-23.52
	1524.00	1.9800	189.9900	1.44	-1.43	1523.91	-1.44	9.37	91.00	2.59	1.55	138.53
	1615.00	3.2900	205.1600	-2.47	-2.81	1614.81	2.47	13.51	91.00	1.62	1.44	16.67
	1706.00	4.9300	210.3000	-8.21	-5.89	1705.57	8.21	20.03	91.00	1.85	1.80	5.65
	1797.00	6.5100	206.1500	-16.21	-10.14	1796.12	16.21	29.09	91.00	1.79	1.74	-4.56
	1888.00	8.1300	207.2500	-26.57	-15.36	1886.37	26.57	40.69	91.00	1.79	1.78	1.21
	1980.00	9.8200	212.9300	-38.94	-22.60	1977.25	38.94	55.02	92.00	2.07	1.84	6.17
	2070.00	10.9400	207.7700	-52.93	-30.75	2065.77	52.93	71.22	90.00	1.62	1.24	-5.73
	2161.00	10.7100	205.0200	-68.24	-38.35	2155.16	68.24	88.31	91.00	0.62	-0.25	-3.02
	2252.00	11.3300	201.2400	-84.23	-45.17	2244.48	84.23	105.69	91.00	1.05	0.68	-4.15
	2342.00	10.8300	200.6500	-100.38	-51.35	2332.80	100.38	122.99	90.00	0.57	-0.56	-0.66
	2434.00	10.3200	200.0700	-116.21	-57.23	2423.24	116.21	139.87	92.00	0.57	-0.55	-0.63
	2525.00	10.6500	198.9100	-131.82	-62.75	2512.72	131.82	156.43	91.00	0.43	0.36	-1.27
	2616.00	10.5600	200.8200	-147.57	-68.44	2602.16	147.57	173.18	91.00	0.40	-0.10	2.10
	2706.00	9.6300	200.2800	-162.34	-73.98	2690.77	162.34	188.95	90.00	1.04	-1.03	-0.60
	2796.00	10.8400	205.6500	-177.03	-80.25	2779.34	177.03	204.93	90.00	1.71	1.34	5.97
	2886.00	10.1300	203.1600	-191.94	-87.03	2867.83	191.94	221.30	90.00	0.94	-0.79	-2.77
	2972.00	10.3000	203.1300	-205.96	-93.03	2952.47	205.96	236.55	86.00	0.20	0.20	-0.03
	3057.00	10.1700	203.2300	-219.85	-98.97	3036.12	219.85	251.65	85.00	0.15	-0.15	0.12
	3142.00	11.0900	208.5200	-233.93	-105.83	3119.66	233.93	267.32	85.00	1.58	1.08	6.22
	3228.00	11.0900	208.9300	-248.43	-113.78	3204.06	248.43	283.86	86.00	0.09	0.00	0.48
	3313.00	10.2900	207.1000	-262.35	-121.20	3287.58	262.35	299.62	85.00	1.02	-0.94	-2.15
	3398.00	10.1300	206.9100	-275.77	-128.04	3371.23	275.77	314.69	85.00	0.19	-0.19	-0.22
	3483.00	9.7900	204.5500	-289.01	-134.42	3454.95	289.01	329.39	85.00	0.62	-0.40	-2.78
	3568.00	8.9500	201.9700	-301.72	-139.90	3538.82	301.72	343.23	85.00	1.10	-0.99	-3.04
	3654.00	9.2500	199.4700	-314.44	-144.71	3623.74	314.44	356.82	86.00	0.58	0.35	-2.91
	3739.00	8.1900	196.7400	-326.67	-148.73	3707.75	326.67	369.71	85.00	1.34	-1.25	-3.21
	3824.00	9.7548	197.6700	-339.33	-152.66	3791.71	339.33	382.96	85.00	1.85	1.84	1.09
	3909.00	8.9200	191.8600	-352.65	-156.20	3875.59	352.65	396.74	85.00	1.48	-0.98	-6.84
	3994.00	8.4400	186.2600	-365.30	-158.23	3959.61	365.30	409.55	85.00	1.14	-0.56	-6.59
	4080.00	8.4600	180.6100	-377.90	-158.99	4044.68	377.90	422.17	86.00	0.97	0.02	-6.57
	4165.00	7.2000	184.5100	-389.46	-159.47	4128.89	389.46	433.74	85.00	1.61	-1.48	4.59
	4250.00	5.0600	195.9300	-398.37	-160.92	4213.40	398.37	442.78	85.00	2.89	-2.52	13.44
	4335.00	3.2100	201.9600	-404.19	-162.84	4298.17	404.19	448.90	85.00	2.23	-2.18	7.09
	4421.00	1.1000	209.2000	-407.14	-164.14	4384.11	407.14	452.13	86.00	2.47	-2.45	8.42
	4506.00	1.0000	24.9500	-407.18	-164.23	4469.10	407.18	452.22	85.00	2.47	-0.12	206.76
	4677.00	1.4000	93.3600	-405.95	-161.51	4640.07	405.95	455.20	171.00	0.81	0.23	40.01
	4765.00	0.5400	192.4000	-406.42	-160.53	4728.06	406.42	456.29	88.00	1.79	-0.98	112.55
	4847.00	1.1300	17.2200	-406.02	-160.37	4810.06	406.02	456.72	82.00	2.04	0.72	-213.63
	5103.00	1.7800	345.4400	-399.76	-160.63	5065.98	399.76	462.98	256.00	0.40	0.25	-12.41
	5274.00	1.4100	336.3800	-395.27	-162.14	5236.91	395.27	467.73	171.00	0.26	-0.22	-5.30
	5614.00	0.9500	288.5700	-390.53	-166.48	5576.85	390.53	474.15	340.00	0.31	-0.14	-14.06

Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	5955.00	0.1900	276.8000	-389.57	-169.73	5917.83	389.57	477.53	341.00	0.22	-0.22	-3.45
	6296.00	0.8300	322.4500	-387.54	-171.79	6258.82	387.54	480.43	341.00	0.21	0.19	13.39
	6638.00	0.5300	294.3800	-384.93	-174.74	6600.79	384.93	484.37	342.00	0.13	-0.09	-8.21
	6723.00	0.4300	235.1500	-384.95	-175.36	6685.79	384.95	484.99	85.00	0.57	-0.12	-69.68
	6765.00	4.4200	173.1400	-386.64	-175.30	6727.75	386.64	486.69	42.00	10.08	9.50	-147.64
	6808.00	9.2500	175.3700	-391.74	-174.82	6770.43	391.74	491.80	43.00	11.25	11.23	5.19
	6851.00	14.8900	172.7300	-400.67	-173.84	6812.46	400.67	500.79	43.00	13.18	13.12	-6.14
	6893.00	20.7700	174.3800	-413.44	-172.43	6852.43	413.44	513.64	42.00	14.05	14.00	3.93
	6936.00	25.7300	179.5300	-430.38	-171.60	6891.93	430.38	530.60	43.00	12.46	11.53	11.98
	6978.00	29.5300	177.4800	-449.84	-171.07	6929.13	449.84	550.07	42.00	9.33	9.05	-4.88
	7021.00	34.0200	175.3500	-472.43	-169.63	6965.68	472.43	572.70	43.00	10.76	10.44	-4.95
	7064.00	35.7400	176.9600	-496.96	-167.99	7000.95	496.96	597.29	43.00	4.54	4.00	3.74
	7106.00	38.9800	177.6000	-522.42	-166.79	7034.33	522.42	622.77	42.00	7.77	7.71	1.52
	7149.00	43.4100	179.1300	-550.72	-166.00	7066.68	550.72	651.08	43.00	10.56	10.30	3.56
	7192.00	47.3500	180.0600	-581.32	-165.79	7096.88	581.32	681.68	43.00	9.29	9.16	2.16
	7234.00	49.6600	180.8200	-612.77	-166.03	7124.70	612.77	713.14	42.00	5.66	5.50	1.81
	7277.00	52.1800	181.0600	-646.14	-166.58	7151.81	646.14	746.52	43.00	5.88	5.86	0.56
	7320.00	55.8200	180.8600	-680.92	-167.16	7177.08	680.92	781.30	43.00	8.47	8.47	-0.47
	7362.00	59.6700	179.8900	-716.43	-167.39	7199.49	716.43	816.81	42.00	9.37	9.17	-2.31
	7405.00	62.9000	179.7500	-754.14	-167.27	7220.15	754.14	854.52	43.00	7.52	7.51	-0.33
	7447.00	66.1000	180.0600	-792.04	-167.21	7238.23	792.04	892.42	42.00	7.65	7.62	0.74
	7490.00	70.1400	178.7300	-831.93	-166.78	7254.25	831.93	932.31	43.00	9.82	9.40	-3.09
	7533.00	73.3800	178.9800	-872.76	-165.97	7267.70	872.76	973.15	43.00	7.56	7.53	0.58
	7575.00	78.3400	178.1700	-913.46	-164.95	7277.96	913.46	1013.86	42.00	11.96	11.81	-1.93
	7618.00	81.9100	178.7500	-955.80	-163.81	7285.33	955.80	1056.22	43.00	8.41	8.30	1.35
	7663.00	86.2600	179.5100	-1000.54	-163.14	7289.97	1000.54	1100.97	45.00	9.81	9.67	1.69
	7727.00	89.2200	180.0400	-1064.49	-162.88	7292.49	1064.49	1164.91	64.00	4.70	4.62	0.83
	7770.00	89.9300	179.7800	-1107.49	-162.82	7292.81	1107.49	1207.91	43.00	1.76	1.65	-0.60
	7855.00	90.5500	179.7600	-1192.48	-162.48	7292.46	1192.48	1292.91	85.00	0.73	0.73	-0.02
	7940.00	89.2300	180.2300	-1277.48	-162.47	7292.62	1277.48	1377.91	85.00	1.65	-1.55	0.55
	8025.00	89.9700	180.8500	-1362.47	-163.27	7293.21	1362.47	1462.90	85.00	1.14	0.87	0.73
	8111.00	88.7900	179.3200	-1448.47	-163.40	7294.14	1448.47	1548.89	86.00	2.25	-1.37	-1.78
	8196.00	90.1200	181.0900	-1533.46	-163.70	7294.95	1533.46	1633.88	85.00	2.60	1.56	2.08
	8281.00	87.4800	179.5600	-1618.43	-164.18	7296.73	1618.43	1718.86	85.00	3.59	-3.11	-1.80
	8367.00	87.4400	179.4300	-1704.34	-163.43	7300.54	1704.34	1804.77	86.00	0.16	-0.05	-0.15
	8452.00	89.1400	179.2500	-1789.29	-162.45	7303.08	1789.29	1889.73	85.00	2.01	2.00	-0.21
	8537.00	89.2000	179.0400	-1874.27	-161.18	7304.31	1874.27	1974.72	85.00	0.26	0.07	-0.25
	8622.00	88.9800	179.0800	-1959.25	-159.79	7305.66	1959.25	2059.71	85.00	0.26	-0.26	0.05
	8708.00	89.0400	178.5600	-2045.22	-158.01	7307.15	2045.22	2145.70	86.00	0.61	0.07	-0.60
	8793.00	89.0100	178.2200	-2130.17	-155.63	7308.59	2130.17	2230.68	85.00	0.40	-0.04	-0.40
	8878.00	90.8300	179.6100	-2215.15	-154.02	7308.71	2215.15	2315.68	85.00	2.69	2.14	1.64
	8964.00	89.3500	178.8600	-2301.14	-152.87	7308.58	2301.14	2401.68	86.00	1.93	-1.72	-0.87
	9049.00	90.3100	181.3000	-2386.13	-152.99	7308.83	2386.13	2486.67	85.00	3.08	1.13	2.87
	9134.00	89.8500	180.3000	-2471.12	-154.17	7308.71	2471.12	2571.67	85.00	1.29	-0.54	-1.18
	9219.00	90.0900	179.4900	-2556.12	-154.02	7308.76	2556.12	2656.67	85.00	0.99	0.28	-0.95
	9304.00	90.5900	180.9100	-2641.12	-154.32	7308.25	2641.12	2741.66	85.00	1.77	0.59	1.67
	9390.00	90.6500	181.6600	-2727.09	-156.24	7307.32	2727.09	2827.66	86.00	0.87	0.07	0.87
	9475.00	90.7400	181.6500	-2812.05	-158.70	7306.29	2812.05	2912.65	85.00	0.11	0.11	-0.01
	9645.00	90.5200	182.6100	-2981.92	-165.02	7304.42	2981.92	3082.64	170.00	0.58	-0.13	0.56
	9731.00	90.4000	182.1800	-3067.84	-168.61	7303.73	3067.84	3168.63	86.00	0.52	-0.14	-0.50
	9816.00	89.9100	180.7000	-3152.81	-170.75	7303.50	3152.81	3253.63	85.00	1.83	-0.58	-1.74
	9901.00	89.5600	180.6700	-3237.80	-171.76	7303.89	3237.80	3338.63	85.00	0.41	-0.41	-0.04
	9986.00	89.4400	178.7000	-3322.80	-171.30	7304.64	3322.80	3423.62	85.00	2.32	-0.14	-2.32
	10071.00	89.0400	178.6800	-3407.77	-169.35	7305.76	3407.77	3508.62	85.00	0.47	-0.47	-0.02
	10157.00	89.0100	177.9500	-3493.72	-166.82	7307.23	3493.72	3594.60	86.00	0.85	-0.03	-0.85
	10242.00	89.5900	178.8300	-3578.67	-164.44	7308.26	3578.67	3679.59	85.00	1.24	0.68	1.04
	10327.00	89.6600	179.3700	-3663.66	-163.10	7308.82	3663.66	3764.59	85.00	0.64	0.08	0.64
	10412.00	89.9000	179.2600	-3748.66	-162.08	7309.15	3748.66	3849.59	85.00	0.31	0.28	-0.13
	10583.00	89.9600	178.7100	-3919.63	-159.06	7309.36	3919.63	4020.59	171.00	0.32	0.04	-0.32
	10668.00	89.7800	179.9400	-4004.62	-158.05	7309.55	4004.62	4105.59	85.00	1.46	-0.21	1.45
	10838.00	89.8100	179.4400	-4174.62	-157.13	7310.16	4174.62	4275.59	170.00	0.29	0.02	-0.29
	10924.00	89.2200	180.5400	-4260.61	-157.12	7310.89	4260.61	4361.58	86.00	1.45	-0.69	1.28
	11094.00	89.8400	179.9100	-4430.60	-157.79	7312.28	4430.60	4531.58	170.00	0.52	0.36	-0.37
	11179.00	89.8400	181.2100	-4515.60	-158.62	7312.52	4515.60	4616.57	85.00	1.53	0.00	1.53
	11349.00	89.8700	180.5200	-4685.58	-161.18	7312.95	4685.58	4786.57	170.00	0.41	0.02	-0.41
	11520.00	90.0300	180.6900	-4856.57	-162.99	7313.10	4856.57	4957.57	171.00	0.14	0.09	0.10
	11691.00	90.0300	179.8100	-5027.56	-163.74	7313.01	5027.56	5128.57	171.00	0.51	0.00	-0.51
	11861.00	90.8700	178.9800	-5197.54	-161.94	7311.67	5197.54	5298.56	170.00	0.69	0.49	-0.49
	11946.00	91.0800	178.5300	-5282.51	-160.09	7310.23	5282.51	5383.55	85.00	0.58	0.25	-0.53
	12117.00	88.7000	176.8300	-5453.35	-153.17	7310.55	5453.35	5554.53	171.00	1.71	-1.39	-0.99
	12231.00	89.2000	177.5000	-5567.19	-147.54	7312.64	5567.19	5668.51	114.00	0.73	0.44	0.59
Projection to TD:												
	12287.00	89.2000	177.5000	-5623.13	-145.09	7313.42	5623.13	5724.50	56.00	0.00	0.00	0.00