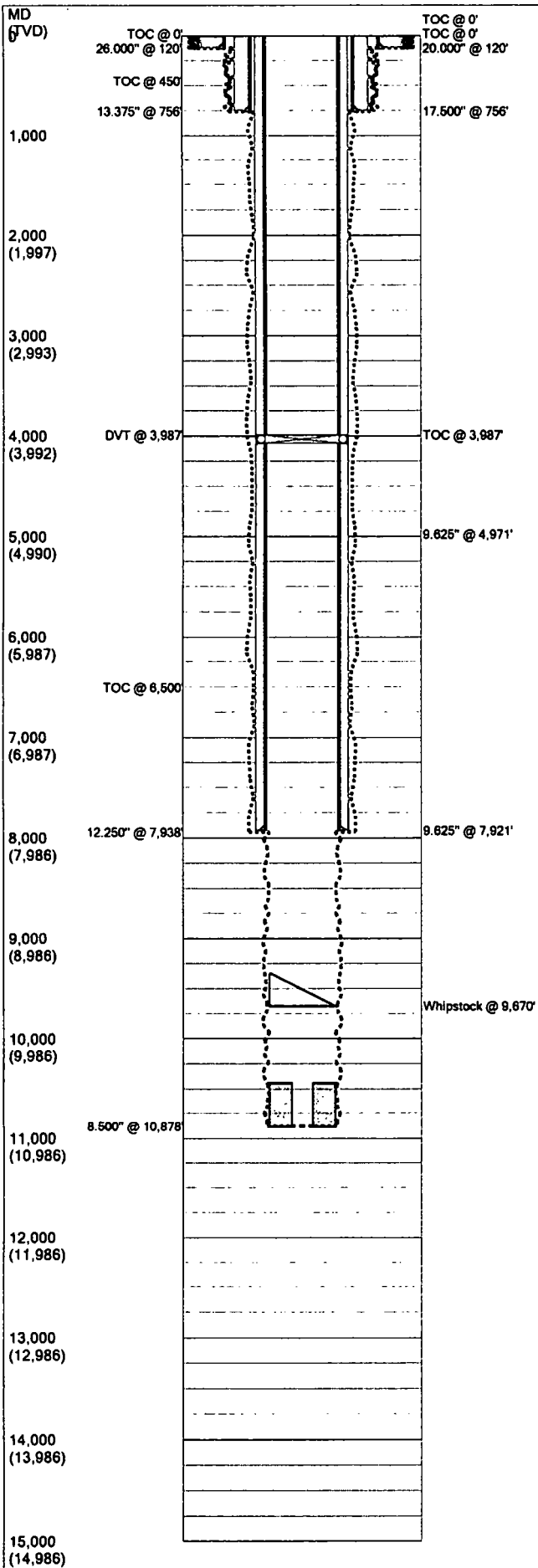




Last Updated: 5/27/2018 02:31 PM



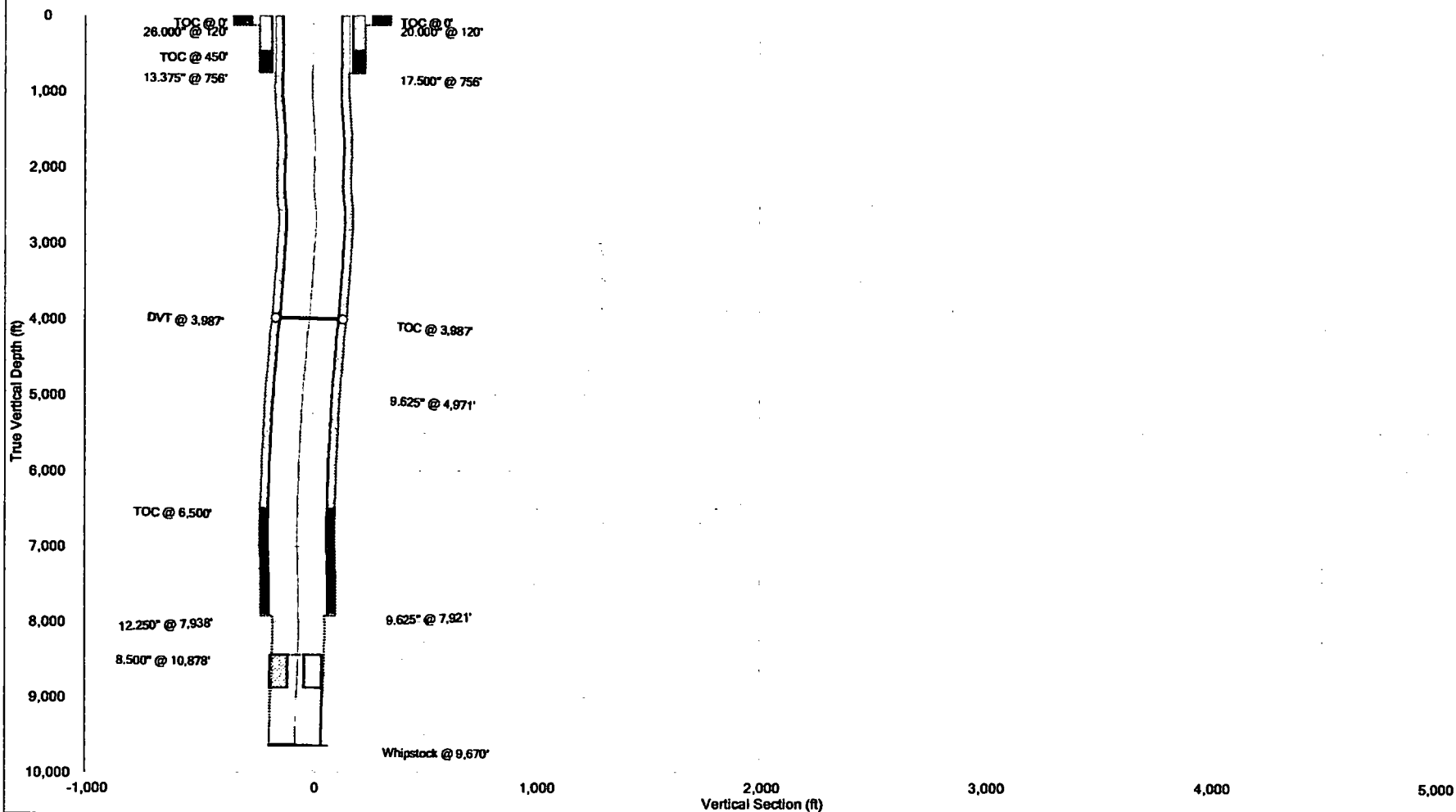
Field Name		Lease Name		Well No.		
Dogie Draw		Mad River 13 State		5H		
County		State		API No.		
Eddy		New Mexico		30-015-44082		
Version	Version Tag					
1	Planned					
GL (ft)	KB (ft)	Section	Township/Block	Range/Survey		
3,091.0	3,113.0	13	24S	27E		
Operator		Well Status	Latitude	Longitude		
Caza Operating		Planned	32.216249	-104.136019		
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		
2137	FSL	160	FEL	SECTION		
Prop Num			Spud Date	Comp. Date		
39924						
Additional Information						
From the intersection of US HWY 285 and County Rd 720 go west on County Rd for 2.7 miles. At intersection of County Rd 720 and County Rd 744 go left (southwest) on County Rd for 1.5 miles to caliche lease road. Turn and go west for 0.1 miles . Road bends to the right. Go northwest then north 0.1 miles to the T. Turn right and go east 96 feet to road survey. Follow north for 1103'.						
OGRID	Pool Name and Code		Well Type	Dedicated Acres		
249099	Purple Sage; Wolfcamp (98220)		Horizontal; Oil	320		
Prepared By		Updated By		Last Updated		
Steve Morris		Steve Morris		5/27/2018 2:31 PM		
Hole Summary						
Date	Diam. (In)	Top (MD ft)	Bottom (MD ft)	Comments		
	26.000	0	120			
4/23/2018	17.500	120	756			
5/3/2018	12.250	756	7,938			
	8.500	7,938	10,878			
Tubular Summary						
Date	Description	O.D. (In)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Conductor Casing	20.000	94.00	H40	0	120
4/24/2018	Surface Casing	13.375	54.50	J55	0	756
5/4/2018	Intermediate Casing	9.625	40.00	J55	0	4,971
5/4/2018	Intermediate Casing	9.625	47.00	HCL8 0	4,971	7,921
Casing Cement Summary						
C	Date	No. Sx	Csg. O.D. (In)	Top (MD ft)	Bottom (MD ft)	Comments
		142	20.000	0	120	
	4/24/2018	365	13.375	0	450	perform top job with 200sx circulate 41sx to surface
	4/24/2018	335	13.375	450	750	
	5/4/2018	890	9.625	0	3,987	Circulate 50bbls to surface
	5/4/2018	715	9.625	3,987	6,500	
	5/4/2018	355	9.625	6,500	7,921	
Tools/Problems Summary						
Date	Tool Type		O.D. (In)	I.D. (In)	Top (MD ft)	Bottom (MD ft)
5/4/2018	DVT		9.625	0.000	3,987	0
5/16/2018	Whipstock		8.500	0.000	9,670	0
5/16/2018	Fish		8.500	2.730	10,440	10,878

Field Name		Lease Name		Well No.	County	State	API No.		
Dogie Draw		Mad River 13 State		5H	Eddy	New Mexico	30015440620000		
Version	Version Tag				Spud Date	Comp. Date	GL (ft)	KB (ft)	
2	1 Planned						3,091.0	3,113.0	
Section	Township/Block	Range/Survey		Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	
13	24S	27E		2,137	FSL	160	FEL	SECTION	
Operator				Well Status		Latitude	Longitude	Prop Num	
Caza Operating				Planned		32.216249	-104.136019	39924	
OGRID		Pool Name and Code		Well Type			Dedicated Acres		
249099		Purple Sage; Wolfcamp (98220)		Horizontal; Oil			320		
Last Updated		Prepared By				Updated By			
05/27/2018 2:31 PM		Steve Morris				Steve Morris			
Additional Information									
From the intersection of US HWY 285 and County Rd 720 go west on County Rd for 2.7 miles. At intersection of County Rd 720 and County Rd 744 go left (southwest) on County Rd for 1.5 miles to caliche lease road. Turn and go west for 0.1 miles. Road bends to the right. Go northwest then north 0.1 miles to the T. Turn right and go east 96 feet to road survey. Follow north for 1103'.									
Hole Summary									
Date	Diam. (In)	Top (MD ft)	Bottom (MD ft)	Comments					
	26.000	0	120						
4/23/2018	17.500	120	756						
5/3/2018	12.250	756	7,938						
	8.500	7,938	10,878						
Tubular Summary									
Date	Description	No. Jts	O.D. (In)	Wt (lb/ft)	Grade	Coupling	Top (MD ft)	Bottom (MD ft)	Comments
	Conductor Casing	3	20.000	94.00	H40		0	120	
4/24/2018	Surface Casing	18	13.375	54.50	J55	STC	0	756	
5/4/2018	Intermediate Casing	113	9.625	40.00	J55	LTC	0	4,971	
5/4/2018	Intermediate Casing	68	9.625	47.00	HCL80	LTC	4,971	7,921	
Casing Cement Summary									
C	Date	No. Sx	Yield (ft³/sk)	Vol. (ft³)	Csg. O.D. (In)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		142	1.33	189	20.000	0	120		
	4/24/2018	365	1.66	606	13.375	0	450	ExtendaCem CZ 13.7ppg 100% BWOC Cement Blend, 3.0 lb/sk, Kol-Seal, 0.125 lb/sk Pol-E-Flake	perform top job with 200sx circulate 41sx to surface
	4/24/2018	335	1.34	449	13.375	450	750	HalCem C 14.8ppg 100% BWOC Cement Blend, 1% WOC CaCl ₂ 94-97% Salt, 0.125 lb/sk Pol-E-Flake	
	5/4/2018	890	1.88	1,673	9.625	0	3,987	12.9ppg NeoCem IL	Circulate 50bbbls to surface
	5/4/2018	715	1.88	1,344	9.625	3,987	6,500	12.9ppg NeoCem IL	
	5/4/2018	355	1.34	476	9.625	6,500	7,921	14.8ppg NeoCem IT	
Tools/Problems Summary									
Date	Tool Type	O.D. (In)	I.D. (In)	Top (MD ft)	Bottom (MD ft)	Description	Comments		
5/4/2018	DV tool	9.625	0.000	3,987	0				
5/16/2018	Whipstock	8.500	0.000	9,670	0				
5/16/2018	Fish	8.500	2.730	10,440	10,878	Bit, Bit sub and 14 joints of DP			

Field Name		Lease Name				Well No.		County		State		API No.		
Dogie Draw		Mad River 13 State				5H		Eddy		New Mexico		30015440620000		
Version	Version Tag					Spud Date		Comp. Date		G.L. (ft)		K.B. (ft)		
1	Planned									3,091.0		3,113.0		
Sec.	Township/Block		Range/Survey		Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		Latitude		Longitude	
13	24S		27E		2137	FSL	160	FEL			32.216249		-104.136019	
Well Status		PropNum		Operator		Last Updated			Prepared By			Updated By		
Planned		39924		Caza Operating		5/27/2018 2:31:13 PM			Steve Morris			Steve Morris		

Additional Information

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Field Name		Lease Name		Well No.	API No.		Version	Version Tag		
Dogie Draw		Mad River 13 State		5H	30015440620000		1	Planned		
Section	Township/Block		Range/Survey		County		State		GL (ft)	KB (ft)
13	24S		27E		Eddy		New Mexico		3,091.0	3,113.0
Target N (-S) (ft)		Target E (-W) (ft)		Latitude		Longitude		Operator		Well Status
0		0		32.216249		-104.136019		Caza Operating		Planned

Additional Information

From the intersection of US HWY 285 and County Rd 720 go west on County Rd for 2.7 miles. At intersection of County Rd 720 and County Rd 744 go left (southwest) on County Rd for 1.5 miles to caliche lease road. Turn and go west for 0.1 miles. Road bends to the right. Go northwest then north 0.1 miles to the T. Turn right and go east 96 feet to road survey. Follow north for 1103'.

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
660.0	0.9	121.5	660.0	0.3	0.1	-0.3	0.00
770.0	0.9	22.5	770.0	-0.7	0.5	0.7	1.24
865.0	0.7	118.2	865.0	-1.5	0.9	1.5	1.25
960.0	1.9	178.0	960.0	-2.0	-0.9	2.0	1.71
1,055.0	3.3	193.9	1,054.9	-1.2	-5.1	1.4	1.69
1,151.0	4.3	193.6	1,150.7	0.7	-11.2	-0.1	1.00
1,246.0	4.0	196.4	1,245.4	2.8	-17.8	-1.8	0.35
1,341.0	3.6	199.7	1,340.2	5.1	-23.8	-3.8	0.45
1,437.0	3.5	203.4	1,436.0	7.6	-29.4	-6.0	0.29
1,533.0	4.0	194.3	1,531.8	9.9	-35.2	-7.9	0.79
1,628.0	3.9	186.1	1,626.6	11.4	-41.6	-9.1	0.59
1,722.0	3.7	171.7	1,720.4	11.6	-47.8	-9.0	1.03
1,817.0	5.1	172.2	1,815.1	11.0	-55.0	-8.0	1.55
1,912.0	5.4	176.5	1,909.7	10.6	-63.7	-7.1	0.49
2,005.0	5.6	166.0	2,002.3	9.7	-72.4	-5.8	1.11
2,101.0	5.9	164.9	2,097.8	7.8	-81.7	-3.3	0.28
2,196.0	5.6	169.0	2,192.3	6.2	-91.0	-1.2	0.54
2,292.0	5.6	191.6	2,287.9	6.8	-100.1	-1.3	2.28
2,387.0	5.4	197.7	2,382.4	9.5	-109.0	-3.6	0.66
2,481.0	4.8	199.1	2,476.1	12.6	-116.9	-6.2	0.73
2,577.0	4.8	197.7	2,571.7	15.5	-124.4	-8.7	0.12
2,672.0	5.2	171.1	2,666.4	16.5	-132.5	-9.2	2.46
2,768.0	5.1	168.9	2,762.0	15.5	-141.0	-7.7	0.23
2,864.0	4.9	170.5	2,857.6	14.4	-149.3	-6.2	0.29
2,959.0	3.9	156.0	2,952.3	12.8	-156.2	-4.2	1.57
3,054.0	3.4	150.7	3,047.2	10.4	-161.6	-1.6	0.64
3,149.0	3.1	152.7	3,142.0	8.1	-166.4	1.0	0.28
3,245.0	3.1	152.9	3,237.9	6.0	-171.0	3.4	0.02
3,340.0	3.1	153.0	3,332.7	3.9	-175.6	5.7	0.07
3,436.0	3.5	150.6	3,428.6	1.6	-180.4	8.3	0.48
3,531.0	4.0	152.6	3,523.4	-1.0	-185.8	11.3	0.51
3,627.0	3.5	147.5	3,619.2	-3.8	-191.2	14.4	0.60
3,712.0	3.3	148.4	3,704.0	-6.2	-195.5	17.0	0.27
3,816.0	3.0	147.2	3,807.9	-9.0	-200.3	20.1	0.24
3,911.0	2.9	150.7	3,902.7	-11.3	-204.5	22.6	0.22
4,007.0	3.7	146.5	3,998.6	-14.0	-209.3	25.5	0.89
4,102.0	4.0	145.0	4,093.3	-17.3	-214.6	29.1	0.31
4,197.0	4.0	145.6	4,188.1	-20.8	-220.0	32.9	0.08
4,290.0	3.6	143.7	4,280.9	-24.0	-225.0	36.4	0.43
4,386.0	3.3	149.7	4,376.7	-26.9	-229.8	39.6	0.51
4,481.0	3.3	145.5	4,471.6	-29.5	-234.3	42.5	0.25
4,576.0	2.8	154.9	4,566.5	-31.8	-238.7	45.0	0.70
4,671.0	3.5	149.6	4,661.3	-34.0	-243.4	47.5	0.81
4,765.0	3.5	152.3	4,755.1	-36.6	-248.4	50.3	0.19
4,861.0	3.2	147.8	4,851.0	-39.1	-253.3	53.1	0.40
4,956.0	3.1	150.9	4,945.8	-41.5	-257.8	55.8	0.19
5,051.0	2.9	151.3	5,040.7	-43.7	-262.2	58.2	0.21
5,147.0	3.6	154.6	5,136.5	-45.9	-267.0	60.7	0.67
5,242.0	3.7	160.2	5,231.3	-47.9	-272.6	62.9	0.38
5,337.0	4.0	164.6	5,326.1	-49.4	-278.6	64.9	0.50
5,433.0	3.8	166.5	5,421.9	-50.7	-284.9	66.5	0.28
5,528.0	4.3	161.8	5,516.7	-52.2	-291.3	68.3	0.61

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
5,623.0	4.8	160.0	5,611.4	-54.3	-298.4	70.8	0.58
5,719.0	4.7	164.5	5,707.1	-56.3	-306.0	73.2	0.40
5,814.0	4.5	165.7	5,801.7	-57.8	-313.3	75.2	0.23
5,909.0	4.3	170.2	5,896.5	-59.0	-320.4	76.7	0.44
6,005.0	3.0	166.0	5,992.3	-59.9	-326.4	77.9	1.33
6,100.0	2.6	159.4	6,087.2	-61.0	-330.8	79.3	0.53
6,196.0	2.1	157.1	6,183.1	-62.2	-334.5	80.7	0.56
6,291.0	2.4	162.9	6,278.0	-63.3	-338.0	82.0	0.44
6,387.0	2.5	169.4	6,373.9	-64.1	-342.1	83.0	0.31
6,481.0	2.0	166.0	6,467.8	-64.6	-345.7	83.8	0.60
6,576.0	0.9	155.2	6,562.8	-65.2	-347.9	84.5	1.17
6,671.0	1.0	152.8	6,657.8	-65.8	-349.3	85.2	0.08
6,766.0	1.1	154.4	6,752.8	-66.5	-350.9	85.9	0.16
6,861.0	1.3	188.2	6,847.8	-66.6	-352.8	86.2	0.77
6,955.0	1.3	191.2	6,941.7	-66.2	-354.9	85.8	0.10
7,050.0	1.2	195.4	7,036.7	-65.6	-356.9	85.4	0.11
7,146.0	1.8	195.8	7,132.7	-64.8	-359.2	84.7	0.61
7,241.0	1.9	186.0	7,227.6	-64.1	-362.2	84.1	0.35
7,336.0	2.0	187.6	7,322.6	-63.5	-365.4	83.7	0.13
7,431.0	2.0	182.1	7,417.5	-63.1	-368.7	83.5	0.21
7,524.0	2.2	177.9	7,510.5	-62.9	-372.1	83.5	0.24
7,620.0	2.5	180.2	7,606.4	-62.7	-376.1	83.5	0.38
7,715.0	2.4	183.9	7,701.3	-62.4	-380.2	83.4	0.20
7,810.0	2.5	183.2	7,796.2	-61.9	-384.3	83.1	0.08
7,858.0	2.4	182.5	7,844.2	-61.7	-386.4	83.0	0.20
7,939.0	2.4	184.8	7,925.1	-61.3	-389.8	82.8	0.12
8,033.0	2.1	182.2	8,019.0	-60.8	-393.5	82.6	0.35
8,128.0	0.5	209.7	8,114.0	-60.4	-395.6	82.3	1.79
8,223.0	1.9	8.4	8,209.0	-60.5	-394.4	82.3	2.49
8,318.0	1.9	16.3	8,303.9	-61.4	-391.3	83.0	0.27
8,413.0	1.7	21.7	8,398.9	-62.5	-388.5	83.9	0.31
8,508.0	1.1	8.4	8,493.8	-63.2	-386.3	84.6	0.67
8,603.0	0.6	3.3	8,588.8	-63.5	-384.9	84.8	0.49
8,698.0	0.9	51.3	8,683.8	-64.1	-383.9	85.4	0.71
8,793.0	1.1	78.9	8,778.8	-65.7	-383.3	86.8	0.54
8,888.0	1.1	99.8	8,873.8	-67.5	-383.3	88.7	0.43
8,982.0	1.1	108.3	8,967.8	-69.2	-383.7	90.4	0.18
9,076.0	1.3	106.9	9,061.8	-71.1	-384.3	92.4	0.26
9,171.0	0.7	41.7	9,156.7	-72.6	-384.2	93.8	1.29
9,267.0	0.6	40.2	9,252.7	-73.3	-383.3	94.5	0.17
9,362.0	0.3	109.6	9,347.7	-73.9	-383.1	95.1	0.58
9,457.0	0.5	96.1	9,442.7	-74.6	-383.2	95.8	0.23
9,552.0	0.6	97.2	9,537.7	-75.5	-383.3	96.7	0.10
9,647.0	0.7	130.3	9,632.7	-76.4	-383.7	97.7	0.39
9,667.0	0.7	166.3	9,652.7	-76.5	-383.9	97.8	2.11