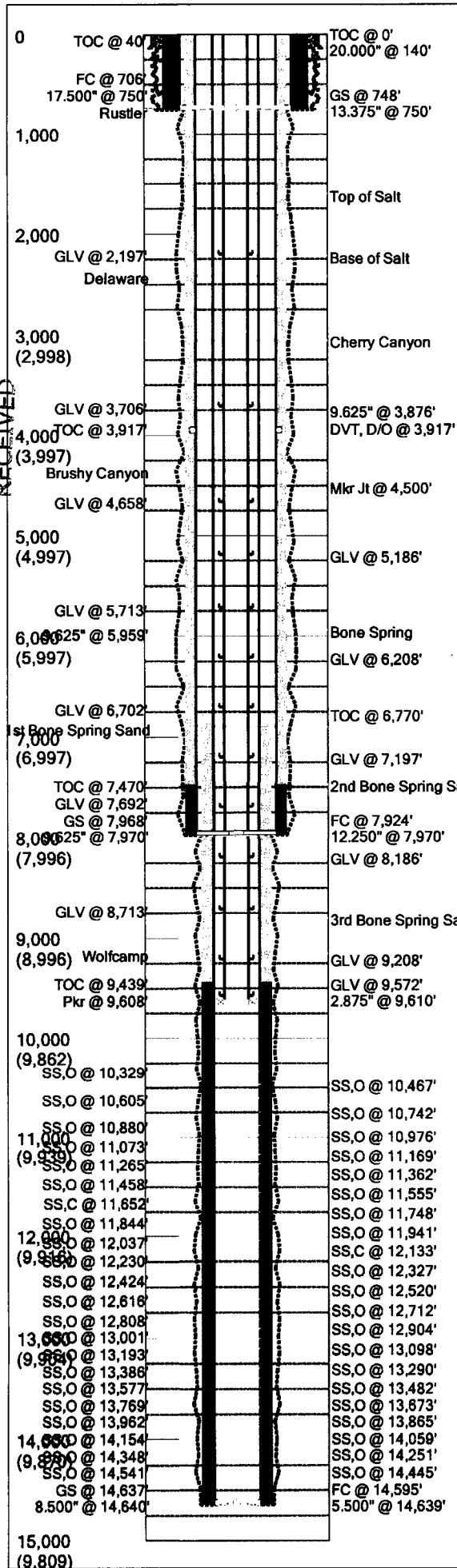


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Field Name	Lease Name	Well No.
Black River	Mad River 13 State	6H
County	State	API No.
Eddy	New Mexico	30-015-44077
Version	Version Tag	
1	Completed	
GL (ft)	KB (ft)	Section
3,102.0	3,124.0	13
Township/Block	Range/Survey	
24S	27E	
Operator	Well Status	Latitude
Caza Operating	Completed	32.211695
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)
480	FSL	175
E/W Line	Footage From	
175	FEL	SECTION
Prop Num	Spud Date	Comp. Date
39924	3/14/2017	4/18/2017
Additional Information		
Other 1	Other 2	Other 3
Prepared By	Updated By	Last Updated
Steve	Steve	6/14/2017 8:29 AM

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
3/16/2017	17.500	0	750	
3/22/2017	12.250	750	7,970	
3/31/2017	8.500	7,970	14,640	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
3/15/2017	Conductor Casing	20.000	94.00	H40	0	140
3/16/2017	Surface Casing	13.375	54.50	J55	0	750
3/23/2017	Intermediate Casing	9.625	40.00	J55	0	3,876
3/23/2017	Intermediate Casing	9.625	40.00	HCL8 0	3,876	5,959
3/23/2017	Intermediate Casing	9.625	47.00	HCL8 0	5,959	7,970
4/1/2017	Production Casing	5.500	20.00	P110	0	14,639
4/18/2017	Tubing	2.875	6.50	L80	0	9,610

Casing Cement Summary

C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	3/16/2017	815	13.375	0	750	Top job to surface
	3/23/2017	965	9.625	40	3,917	TOC 40' - Temp Log
	3/23/2017	445	9.625	3,917	7,470	
	3/23/2017	1,405	9.625	7,470	7,970	
	4/1/2017	845	5.500	6,770	9,439	TOC - 6770 CBL
	4/1/2017	575	5.500	9,439	14,639	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
3/16/2017	FC	13.375	0.000	706	0
3/16/2017	GS	13.375	0.000	748	0
4/18/2017	GLV	2.875	0.000	2,197	0
4/18/2017	GLV	2.875	0.000	3,706	0
3/23/2017	DVT, D/O	9.625	0.000	3,917	0
4/1/2017	Mkr Jt	5.500	0.000	4,500	4,522
4/18/2017	GLV	2.875	0.000	4,658	0
4/18/2017	GLV	2.875	0.000	5,186	0
4/18/2017	GLV	2.875	0.000	5,713	0
4/18/2017	GLV	2.875	0.000	6,208	0
4/18/2017	GLV	2.875	0.000	6,702	0
4/18/2017	GLV	2.875	0.000	7,197	0
4/18/2017	GLV	2.875	0.000	7,692	0
3/23/2017	FC	9.625	0.000	7,924	0
3/23/2017	GS	9.625	0.000	7,968	0
4/18/2017	GLV	2.875	0.000	8,186	0
4/18/2017	GLV	2.875	0.000	8,713	0
4/18/2017	GLV	2.875	0.000	9,208	0
4/18/2017	GLV	2.875	0.000	9,572	0
4/16/2017	Pkr	4.780	2.875	9,608	0
4/16/2017	SS,O	5.500	0.000	10,329	10,340
4/15/2017	SS,O	5.500	0.000	10,467	10,480
4/15/2017	SS,O	5.500	0.000	10,605	10,618
4/15/2017	SS,O	5.500	0.000	10,742	10,755

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Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
4/15/2017	SS,O	5.500	0.000	10,880	10,893
4/15/2017	SS,O	5.500	0.000	10,976	10,989
4/14/2017	SS,O	5.500	0.000	11,073	11,086
4/14/2017	SS,O	5.500	0.000	11,169	11,182
4/14/2017	SS,O	5.500	0.000	11,265	11,278
4/14/2017	SS,O	5.500	0.000	11,362	11,375
4/14/2017	SS,O	5.500	0.000	11,458	11,471
4/14/2017	SS,O	5.500	0.000	11,555	11,568
4/13/2017	SS,C	5.500	0.000	11,652	11,665
4/13/2017	SS,O	5.500	0.000	11,748	11,761
4/13/2017	SS,O	5.500	0.000	11,844	11,857
4/13/2017	SS,O	5.500	0.000	11,941	11,954
4/13/2017	SS,O	5.500	0.000	12,037	12,050
4/12/2017	SS,C	5.500	0.000	12,133	12,146
4/12/2017	SS,O	5.500	0.000	12,230	12,243
4/12/2017	SS,O	5.500	0.000	12,327	12,340
4/12/2017	SS,O	5.500	0.000	12,424	12,437
4/12/2017	SS,O	5.500	0.000	12,520	12,533
4/11/2017	SS,O	5.500	0.000	12,616	12,629
4/11/2017	SS,O	5.500	0.000	12,712	12,724
4/11/2017	SS,O	5.500	0.000	12,808	12,821
4/11/2017	SS,O	5.500	0.000	12,904	12,917
4/11/2017	SS,O	5.500	0.000	13,001	13,014
4/11/2017	SS,O	5.500	0.000	13,098	13,111
4/10/2017	SS,O	5.500	0.000	13,193	13,206
4/10/2017	SS,O	5.500	0.000	13,290	13,303
4/10/2017	SS,O	5.500	0.000	13,386	13,399
4/10/2017	SS,O	5.500	0.000	13,482	13,495
4/10/2017	SS,O	5.500	0.000	13,577	13,590
4/10/2017	SS,O	5.500	0.000	13,673	13,686
4/10/2017	SS,O	5.500	0.000	13,769	13,782
4/9/2017	SS,O	5.500	0.000	13,865	13,878
4/9/2017	SS,O	5.500	0.000	13,962	13,975
4/9/2017	SS,O	5.500	0.000	14,059	14,072
4/9/2017	SS,O	5.500	0.000	14,154	14,167
4/8/2017	SS,O	5.500	0.000	14,251	14,264
4/8/2017	SS,O	5.500	0.000	14,348	14,361
4/8/2017	SS,O	5.500	0.000	14,445	14,458
4/8/2017	SS,O	5.500	0.000	14,541	14,554
4/1/2017	FC	5.500	0.000	14,595	0
4/1/2017	GS	5.500	0.000	14,637	0

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	756	
Top of Salt	1,602	
Base of Salt	2,210	
Delaware	2,415	
Cherry Canyon	3,049	
Brushy Canyon	4,349	
Bone Spring	5,939	
1st Bone Spring Sand	6,896	
2nd Bone Spring Sand	7,469	
3rd Bone Spring Sand	8,799	
Wolfcamp	9,147	

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Field Name		Lease Name		Well No.	County	State	API No.	
Black River		Mad River 13 State		6H	Eddy	New Mexico	30015440770000	
Version	Version Tag				Spud Date	Comp. Date	GL (ft)	KB (ft)
1	Completed				3/14/2017	4/18/2017	3,102.0	3,124.0
Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	
13	24S	27E	480	FSL	175	FEL	SECTION	
Operator			Well Status		Latitude		Longitude	
Caza Operating			Completed		32.211695		-104.136059	
Prop Num								
39924								
Other 1		Other 2		Other 3			Other 4	
Last Updated		Prepared By			Updated By			
06/14/2017 8:29 AM		Steve			Steve			
Additional Information								

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
3/16/2017	17.500	0	750	
3/22/2017	12.250	750	7,970	
3/31/2017	8.500	7,970	14,640	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
3/15/2017	Conductor Casing		20.000	94.00	H40	0	140	
3/16/2017	Surface Casing	19	13.375	54.50	J55	0	750	
3/23/2017	Intermediate Casing	90	9.625	40.00	J55	0	3,876	
3/23/2017	Intermediate Casing	48	9.625	40.00	HCL80	3,876	5,959	
3/23/2017	Intermediate Casing	47	9.625	47.00	HCL80	5,959	7,970	
4/1/2017	Production Casing	340	5.500	20.00	P110	0	14,639	
4/18/2017	Tubing	291	2.875	6.50	L80	0	9,610	

Casing Cement Summary

C	Date	No. Sx	Yield (ft ³ /sk)	Vol. (ft ³)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	3/16/2017	815	1.33	1,084	13.375	0	750	14.8ppg Class C + 2# CaCl ₂ + 0.3# CPT-503P + 0.25# Cello Flake	Top job to surface
	3/23/2017	965	2.03	1,959	9.625	40	3,917	12.7ppg Class C + 10# salt + 6# gel + 0.5# CPT-45 + 0.25# Cello Flake + 0.2# CPT-20A	TOC 40' - Temp Log
	3/23/2017	445	2.04	908	9.625	3,917	7,470	12.7ppg Class C + 10# salt + 6# gel + 0.5# CPT-45 + 0.25# Cello Flake + 0.2# CPT-20A	
	3/23/2017	1,405	1.33	1,869	9.625	7,470	7,970	14.8ppg Class C + 0.2# CPT-19 + 0.25# CPT-20A	
	4/1/2017	845	3.18	2,687	5.500	6,770	9,439	11ppg 50/50 Poz H + 5# salt + 5# Gypsum + 1# CPT-19	TOC - 6770 CBL
	4/1/2017	575	2.60	1,495	5.500	9,439	14,639	15ppg Class H + 3# Mg Ox + 100# Calcarb + 0.5# CPT-47B + 0.3# CD-3 + 0.2# CPT-23 + 0.2# CPT-51	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
3/16/2017	Float Collar	13.375	0.000	706	0		
3/16/2017	Guide Shoe	13.375	0.000	748	0		
4/18/2017	Gas Lift Valve	2.875	0.000	2,197	0		
4/18/2017	Gas Lift Valve	2.875	0.000	3,706	0		
3/23/2017	DV tool (drilled out)	9.625	0.000	3,917	0		
4/1/2017	Marker Joint	5.500	0.000	4,500	4,522		
4/18/2017	Gas Lift Valve	2.875	0.000	4,658	0		
4/18/2017	Gas Lift Valve	2.875	0.000	5,186	0		
4/18/2017	Gas Lift Valve	2.875	0.000	5,713	0		
4/18/2017	Gas Lift Valve	2.875	0.000	6,208	0		
4/18/2017	Gas Lift Valve	2.875	0.000	6,702	0		
4/18/2017	Gas Lift Valve	2.875	0.000	7,197	0		
4/18/2017	Gas Lift Valve	2.875	0.000	7,692	0		
3/23/2017	Float Collar	9.625	0.000	7,924	0		
3/23/2017	Guide Shoe	9.625	0.000	7,968	0		
4/18/2017	Gas Lift Valve	2.875	0.000	8,186	0		
4/18/2017	Gas Lift Valve	2.875	0.000	8,713	0		
4/18/2017	Gas Lift Valve	2.875	0.000	9,208	0		
4/18/2017	Gas Lift Valve	2.875	0.000	9,572	0		
4/16/2017	Packer	4.780	2.875	9,608	0		
4/16/2017	Sliding Sleeve (open)	5.500	0.000	10,329	10,340		8329 bbls comprised of 31 bbls 15% HCL, 15 bbls Rhino, 221 bbls liberty FR, 243 coil FW, 7066 bbls Linear Guar, 601 bbls 12# Justice dink, and 154 bbls fresh water. Pumped 311,340 lbs 30/50 white

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Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
4/15/2017	Sliding Sleeve (open)	5.500	0.000	10,467	10,480		7793 bbls comprised of 16 bbls 15% HCL, 14 bbls Rhino, 326 bbls liberty FR, 206 coil FW, 6752 bbls Linear Guar, 601 bbls 12# Justice xlink, and 85 bbls fresh water. Pumped 307,300 lbs 30/50 white
4/15/2017	Sliding Sleeve (open)	5.500	0.000	10,605	10,618		8252 bbls comprised of 16 bbls 15% HCL, 14 bbls Rhino, 217 bbls liberty FR, 206 coil FW, 6839 bbls Linear Guar, 850 bbls 12# Justice xlink, and 112 bbls fresh water. Pumped 307,230 lbs 30/50 white
4/15/2017	Sliding Sleeve (open)	5.500	0.000	10,742	10,755		7997 bbls comprised of 17 bbls 15% HCL, 13 bbls Rhino, 217 bbls liberty FR, 212 coil FW, 6812 bbls Linear Guar, 601 bbls 12# Justice xlink, and 125 bbls fresh water. Pumped 307,040 lbs 30/50 white.
4/15/2017	Sliding Sleeve (open)	5.500	0.000	10,880	10,893		8056 bbls comprised of 17 bbls 15% HCL, 13 bbls Rhino, 225 bbls liberty FR, 237 coil FW, 6849 bbls Linear Guar, 600 bbls 12# Justice xlink, and 114 bbls fresh water. Pumped 300,100 lbs 30/50 white
4/15/2017	Sliding Sleeve (open)	5.500	0.000	10,976	10,989		8083 bbls comprised of 17 bbls 15% HCL, 13 bbls Rhino, 233 bbls liberty FR, 214 coil FW, 6883 bbls Linear Guar, 601 bbls 12# Justice xlink, and 121 bbls fresh water. Pumped 298,120 lbs 30/50 white
4/14/2017	Sliding Sleeve (open)	5.500	0.000	11,073	11,086		7752 bbls comprised of 23 bbls 15% HCL, 14 bbls Rhino, 267 bbls liberty FR, 261 coil FW, 6486 bbls Linear Guar, 601 bbls 12# Justice xlink, and 100 bbls fresh water. Pumped 297,340 lbs 30/50 white.
4/14/2017	Sliding Sleeve (open)	5.500	0.000	11,169	11,182		7269 bbls comprised of 14 bbls 15% HCL, 12 bbls Rhino, 227 bbls liberty FR, 169 coil FW, 6155 bbls Linear Guar, 600 bbls 12# Justice xlink, and 92 bbls fresh water. Pumped 293,220 lbs 30/50 white
4/14/2017	Sliding Sleeve (open)	5.500	0.000	11,265	11,278		7767 bbls comprised of 16 bbls 15% HCL, 12 bbls Rhino, 232 bbls liberty FR, 188 coil FW, 6611 bbls Linear Guar, 601 bbls 12# Justice xlink, and 107 bbls fresh water. Pumped 297,200 lbs 30/50 white
4/14/2017	Sliding Sleeve (open)	5.500	0.000	11,362	11,375		6806 bbls comprised of 18 bbls 15% HCL, 13 bbls Rhino, 230 bbls liberty FR, 224 coil FW, 6806 bbls Linear Guar, 601 bbls 12# Justice xlink, and 120 bbls fresh water. Pumped 292,360 lbs 30/50 white
4/14/2017	Sliding Sleeve (open)	5.500	0.000	11,458	11,471		8056 bbls comprised of 19 bbls 15% HCL, 13 bbls Rhino, 238 bbls liberty FR, 214 coil FW, 6841 bbls Linear Guar, 612 bbls 12# Justice xlink, and 120 bbls fresh water. Pumped 297,380 lbs 30/50 white.
4/14/2017	Sliding Sleeve (open)	5.500	0.000	11,555	11,568		8187 bbls comprised of 12 bbls 15% HCL, 13 bbls Rhino, 238 bbls liberty FR, 187 coil FW, 7012 bbls Linear Guar, 600 bbls 12# Justice xlink, and 125 bbls fresh water. Pumped 296,940 lbs 30/50 white
4/13/2017	Sliding Sleeve (closed)	5.500	0.000	11,652	11,665		8056 bbls comprised of 19 bbls 15% HCL, 13 bbls Rhino, 238 bbls liberty FR, 214 coil FW, 6841 bbls Linear Guar, 612 bbls 12# Justice xlink, and 120 bbls fresh water. Pumped 297,380 lbs 30/50 white
4/13/2017	Sliding Sleeve (open)	5.500	0.000	11,748	11,761		8187 bbls comprised of 12 bbls 15% HCL, 13 bbls Rhino, 238 bbls liberty FR, 187 coil FW, 7012 bbls Linear Guar, 600 bbls 12# Justice xlink, and 125 bbls fresh water. Pumped 296,940 lbs 30/50 white
4/13/2017	Sliding Sleeve (open)	5.500	0.000	11,844	11,857		7787 bbls comprised of 20 bbls 15% HCL, 13 bbls Rhino, 248 bbls liberty FR, 177 coil FW, 6668 bbls Linear Guar, 601 bbls 12# Justice xlink, and 60 bbls fresh water. Pumped 303,360 lbs 30/50 white
4/13/2017	Sliding Sleeve (open)	5.500	0.000	11,941	11,954		7794 bbls comprised of 18 bbls 15% HCL, 14 bbls Rhino, 236 bbls liberty FR, 172 coil FW, 6770 bbls Linear Guar, 601 bbls 12# Justice xlink, and 85 bbls fresh water. Pumped 292,380 lbs 30/50 white
4/13/2017	Sliding Sleeve (open)	5.500	0.000	12,037	12,050		7794 bbls comprised of 15 bbls 15% HCL, 13 bbls Rhino, 242 bbls liberty FR, 270 coil FW, 6549 bbls Linear Guar, 601 bbls 12# Justice xlink, and 106 bbls fresh water. Pumped 294,240 lbs 30/50 white
4/12/2017	Sliding Sleeve (closed)	5.500	0.000	12,133	12,146		Not able to shift tool open. Spotted acid 2 times. Decision made to skip stage
4/12/2017	Sliding Sleeve (open)	5.500	0.000	12,230	12,243		8083 bbls comprised of 18 bbls 15% HCL, 13 bbls Rhino, 259 bbls liberty FR, 224 coil FW, 6829 bbls Linear Guar, 601 bbls 12# Justice xlink, and 139 bbls fresh water. Pumped 297,560 lbs 30/50 white
4/12/2017	Sliding Sleeve (open)	5.500	0.000	12,327	12,340		7628 bbls comprised of 16 bbls 15% HCL, 13 bbls Rhino, 249 bbls liberty FR, 266 coil FW, 6653 bbls Linear Guar, 600 bbls 12# Justice xlink, and 98 bbls fresh water. Pumped 297,300 lbs 30/50 white

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Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
4/12/2017	Sliding Sleeve (open)	5.500	0.000	12,424	12,437		7803 bbls comprised of 14 bbls 15% HCL, 13 bbls Rhino, 248 bbls liberty FR, 266 coil FW, 6557 bbls Linear Guar, 601 bbls 12# Justice xlink, and 105 bbls fresh water. Pumped 300,060 lbs 30/50 white
4/12/2017	Sliding Sleeve (open)	5.500	0.000	12,520	12,533		8011 bbls comprised of 21 bbls 15% HCL, 13 bbls Rhino, 244 bbls liberty FR, 220 coil FW, 6823 bbls Linear Guar, 600 bbls 12# Justice xlink, and 91 bbls fresh water. Pumped 297,520 lbs 30/50 white
4/11/2017	Sliding Sleeve (open)	5.500	0.000	12,616	12,629		8033 bbls comprised of 10 bbls 15% HCL, 13 bbls Rhino, 262 bbls liberty FR, 202 coil FW, 6820 bbls Linear Guar, 601 bbls 12# Justice xlink, and 125 bbls fresh water. Pumped 297,440 lbs 30/50 white
4/11/2017	Sliding Sleeve (open)	5.500	0.000	12,712	12,724		7790 bbls comprised of 17 bbls 15% HCL, 13 bbls Rhino, 257 bbls liberty FR, 206 coil FW, 6578 bbls Linear Guar, 600 bbls 12# Justice xlink, and 119 bbls fresh water. Pumped 292,720 lbs 30/50 white
4/11/2017	Sliding Sleeve (open)	5.500	0.000	12,808	12,821		7776 bbls comprised of 19 bbls 15% HCL, 12 bbls Rhino, 255 bbls liberty FR, 178 coil FW, 6566 bbls Linear Guar, 657 bbls 12# Justice xlink, and 90 bbls fresh water. Pumped 305,600 lbs 30/50 white
4/11/2017	Sliding Sleeve (open)	5.500	0.000	12,904	12,917		7777 bbls comprised of 17 bbls 15% HCL, 12 bbls Rhino, 263 bbls liberty FR, 182 coil FW, 6535 bbls Linear Guar, 655 bbls 12# Justice xlink, and 114 bbls fresh water. Pumped 294,200 lbs 30/50 white
4/11/2017	Sliding Sleeve (open)	5.500	0.000	13,001	13,014		8247 bbls comprised of 17 bbls 15% HCL, 13 bbls Rhino, 267 bbls liberty FR, 238 coil FW, 6982 bbls Linear Guar, 601 bbls 12# Justice xlink, and 129 bbls fresh water. Pumped 306,080 lbs 30/50 white
4/11/2017	Sliding Sleeve (open)	5.500	0.000	13,098	13,111		7570 bbls comprised of 12 bbls 15% HCL, 13 bbls Rhino, 264 bbls liberty FR, 196 coil FW, 6559 bbls Linear Guar, 601 bbls 12# Justice xlink, and 122 bbls fresh water. Pumped 293,940 lbs 30/50 white
4/10/2017	Sliding Sleeve (open)	5.500	0.000	13,193	13,206		5929 bbls comprised of 16 bbls 15% HCL, 11 bbls Rhino, 273 bbls liberty FR, 196 coil FW, 4903 bbls Linear Guar, 403 bbls 12# Justice xlink, and 128 bbls fresh water. Pumped 200,440 lbs 30/50 white
4/10/2017	Sliding Sleeve (open)	5.500	0.000	13,290	13,303		6299 bbls comprised of 22 bbls 15% HCL, 11 bbls Rhino, 291 bbls liberty FR, 195 coil FW, 5261 bbls Linear Guar, 400 bbls 12# Justice xlink, and 119 bbls fresh water. Pumped 205,120 lbs 30/50 white
4/10/2017	Sliding Sleeve (open)	5.500	0.000	13,386	13,399		6082 bbls comprised of 17 bbls 15% HCL, 12 bbls Rhino, 264 bbls liberty FR, 187 coil FW, 5146 bbls Linear Guar, 400 bbls 12# Justice xlink, and 117 bbls fresh water. Pumped 193,200 lbs 30/50 white
4/10/2017	Sliding Sleeve (open)	5.500	0.000	13,482	13,495		6702 bbls comprised of 15 bbls 15% HCL, 12 bbls Rhino, 319 bbls liberty FR, 187 coil FW, 3648 bbls Linear Guar, 400 bbls 12# Justice xlink, and 125 bbls fresh water. Pumped 196,320 lbs 30/50 white
4/10/2017	Sliding Sleeve (open)	5.500	0.000	13,577	13,590		4130 bbls comprised of 13 bbls 15% HCL, 12 bbls Rhino, 338 bbls liberty FR, 141 coil FW, 3502 bbls Linear Guar, and 125 bbls fresh water. Pumped 125,760 lbs 30/50 white
4/10/2017	Sliding Sleeve (open)	5.500	0.000	13,673	13,686		4088 bbls comprised of 15 bbls 15% HCL, 12 bbls Rhino, 1285 bbls liberty FR, 129 coil FW, 2523 bbls Linear Guar, and 125 bbls fresh water. Pumped 115,020 lbs 30/50 white
4/10/2017	Sliding Sleeve (open)	5.500	0.000	13,769	13,782		5602 bbls comprised of 22 bbls 15% HCL, 12 bbls Rhino, 2556 bbls liberty FR, 126 coil FW, 2800 bbls Linear Guar, and 86 bbls fresh water. Pumped 200,380 lbs 30/50 white.
4/9/2017	Sliding Sleeve (open)	5.500	0.000	13,865	13,878		4917 bbls comprised of 16 bbls 15% HCL, 11 bbls Rhino, 1821 bbls liberty FR, 421 coil FW, 2524 bbls Linear Guar, and 123 bbls fresh water. Pumped 143,000 lbs 30/50 white
4/9/2017	Sliding Sleeve (open)	5.500	0.000	13,962	13,975		7487 bbls comprised of 15 bbls 15% HCL, 12 bbls Rhino, 4804 bbls liberty FR, 181 coil FW, 2381 bbls Linear Guar, and 121 bbls fresh water. Pumped 203,360 lbs 30/50 white
4/9/2017	Sliding Sleeve (open)	5.500	0.000	14,059	14,072		6399 bbls comprised of 15 bbls 15% HCL, 12 bbls Rhino, 5064 bbls liberty FR, 196 coil FW, 976 bbls Linear Guar, and 136 bbls fresh water. Pumped 223,320 lbs 30/50 white
4/9/2017	Sliding Sleeve (open)	5.500	0.000	14,154	14,167		5913 bbls comprised of 18 bbls 15% HCL, 12 bbls Rhino, 2779 bbls liberty FR, 120 coil FW, 3006 bbls Linear Guar, and 98 bbls fresh water. Pumped 152,240 lbs 30/50 white
4/8/2017	Sliding Sleeve (open)	5.500	0.000	14,251	14,264		5045 bbls comprised of 16 bbls 15% HCL, 12 bbls Rhino, 1619 bbls liberty FR, 214 coil FW, 3118 bbls Linear Guar, and 67 bbls fresh water. Pumped 203,240 lbs 30/50 white.

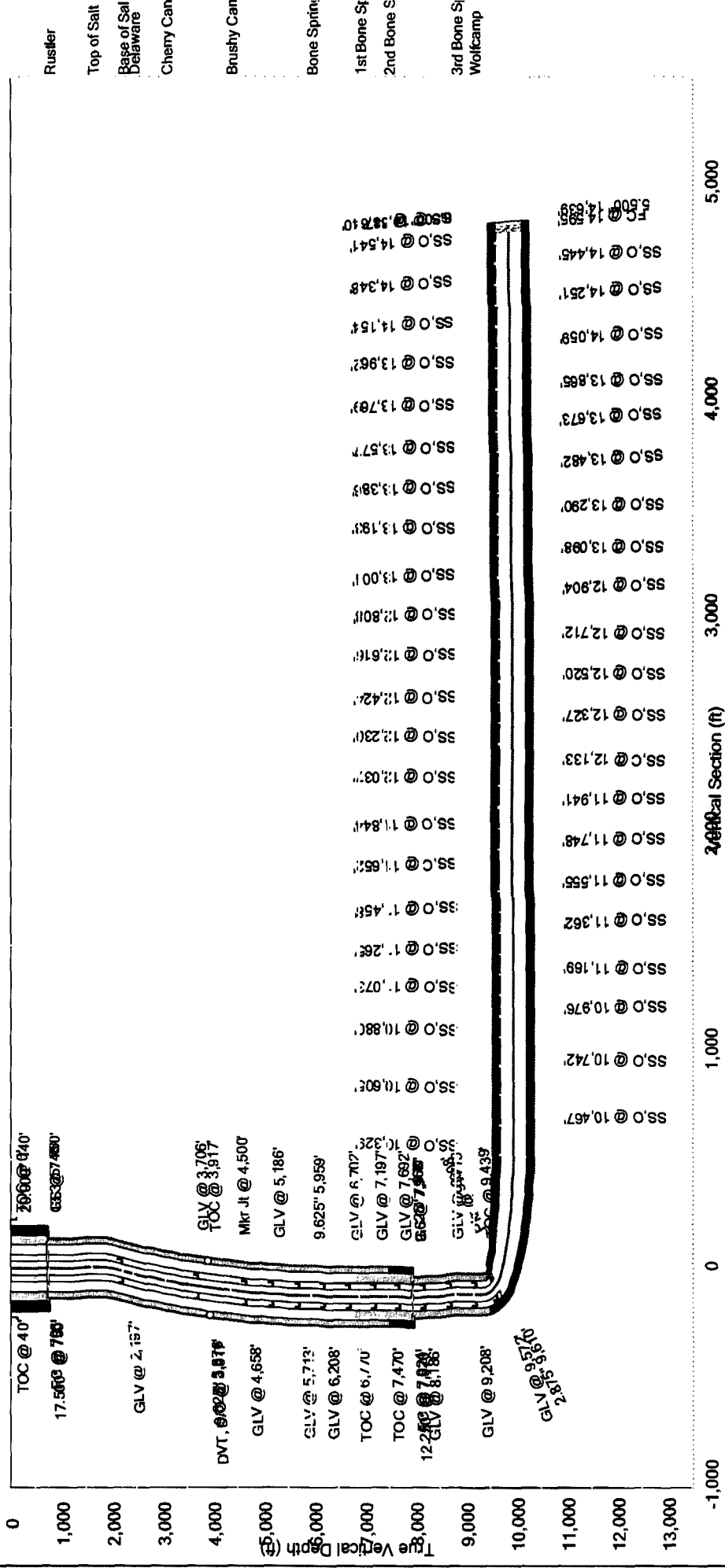
Last Updated: 6/14/2017 08:29 AM

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
4/8/2017	Sliding Sleeve (open)	5.500	0.000	14,348	14,361		5133 bbls comprised of 14 bbls 15% HCL, 11 bbls Rhino, 3071 bbls liberty FR, 138 coil FW, 1930 bbls Linear Guar, and 107 bbls fresh water. Pumped 142,120 lbs 30/50 white.
4/8/2017	Sliding Sleeve (open)	5.500	0.000	14,445	14,458		3479 bbls comprised of 24 bbls 15% HCL, 12 bbls Rhino, 3119 bbls liberty FR, 138 coil FW, and 83 bbls fresh water. Pumped 109,200 lbs 30/50 white.
4/8/2017	Sliding Sleeve (open)	5.500	0.000	14,541	14,554		1749 bbls comprised of 24 bbls 15% HCL, 12 bbls Rhino, 197 bbls liberty FR, 434 bbls linear guar, and 1083 bbls fresh water. Pumped 4,020 lbs 30/50 white
4/1/2017	Float Collar	5.500	0.000	14,595	0		
4/1/2017	Guide Shoe	5.500	0.000	14,637	0		

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	756	
Top of Salt	1,602	
Base of Salt	2,210	
Delaware	2,415	
Cherry Canyon	3,049	
Brushy Canyon	4,349	
Bone Spring	5,939	
1st Bone Spring Sand	6,896	
2nd Bone Spring Sand	7,469	
3rd Bone Spring Sand	8,799	
Wolfcamp	9,147	

Field Name	Black River	Lease Name	Mad River 13 State	Well No.	6H	County	Eddy	State	New Mexico	API No.	30015440770000	Version	1	Version Tag	Completed	Spud Date	3/14/2017	Comp. Date	4/19/2017	G.L. (ft)	3,102.0	K.B. (ft)	3,124.0
Sec.	24S	Township/Block	Range/Survey	Dist. N/S (ft)	480 FSL	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	Latitude	32.211695	Longitude	-104.136059	Well Status	Completed	PropNum	39924	Operator	Caza Operating				
13			27E				175 FEL																
Last Updated	6/14/2017 8:29:33 AM	Prepared By	Steve	Updated By	Steve	Additional Information																	



Field Name		Lease Name		Well No.	API No.	Version	Version Tag			
Black River		Mad River 13 State		6H	30015440770000	1	Completed			
Section	Township/Block		Range/Survey		County		State		GL (ft)	KB (ft)
13	24S		27E		Eddy		New Mexico		3,102.0	3,124.0
Target N (-S) (ft)		Target E (-W) (ft)		Latitude		Longitude		Operator		Well Status
-212.5775		-4821.121		32.211695		-104.136059		Caza Operating		Completed
Additional Information										

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
199.0	0.5	346.8	199.0	0.2	0.9	-0.2	0.27
388.0	1.0	21.4	388.0	-0.3	3.2	0.2	0.31
571.0	1.4	25.2	570.9	-1.9	6.6	1.6	0.23
697.0	1.3	5.6	696.9	-2.8	9.4	2.4	0.36
793.0	1.3	348.3	792.9	-2.8	11.4	2.3	0.40
961.0	1.0	342.6	960.9	-2.2	14.6	1.5	0.19
1,143.0	0.7	301.9	1,142.8	-0.8	16.6	0.1	0.34
1,329.0	0.9	300.1	1,328.8	1.3	17.9	-2.1	0.09
1,518.0	1.0	310.9	1,517.8	3.8	19.8	-4.6	0.13
1,709.0	1.1	34.4	1,708.8	3.9	22.4	-4.9	0.74
1,898.0	1.1	51.3	1,897.7	1.4	25.0	-2.5	0.17
2,088.0	3.3	95.1	2,087.6	-5.5	25.6	4.4	1.40
2,277.0	4.0	97.4	2,276.2	-17.4	24.3	16.3	0.35
2,467.0	3.0	94.7	2,465.9	-28.9	23.0	27.9	0.51
2,657.0	3.0	90.9	2,655.6	-38.7	22.5	37.8	0.11
2,847.0	2.7	91.7	2,845.4	-48.0	22.3	47.1	0.14
3,037.0	2.6	98.2	3,035.2	-56.6	21.6	55.7	0.17
3,225.0	2.6	101.0	3,223.0	-64.8	20.2	64.0	0.07
3,415.0	2.3	101.9	3,412.8	-72.6	18.6	71.8	0.16
3,605.0	2.3	103.3	3,602.7	-79.9	17.0	79.2	0.03
3,794.0	2.0	101.2	3,791.5	-86.8	15.4	86.2	0.14
3,984.0	1.7	108.4	3,981.4	-92.6	13.9	92.1	0.23
4,172.0	1.7	105.7	4,169.3	-97.8	12.3	97.4	0.05
4,362.0	1.7	102.8	4,359.3	-103.1	10.9	102.7	0.05
4,551.0	1.4	112.5	4,548.2	-107.9	9.4	107.6	0.18
4,741.0	1.2	113.7	4,738.1	-111.8	7.7	111.6	0.11
4,931.0	1.0	111.5	4,928.1	-115.1	6.3	115.0	0.13
5,121.0	1.0	112.9	5,118.1	-118.1	5.1	117.9	0.02
5,311.0	0.9	122.0	5,308.1	-120.7	3.7	120.6	0.09
5,501.0	0.8	131.7	5,498.0	-122.8	2.1	122.8	0.08
5,691.0	0.9	143.4	5,688.0	-124.6	0.0	124.7	0.10
5,867.0	1.0	162.6	5,864.0	-125.7	-2.5	126.0	0.18
6,057.0	0.5	167.8	6,054.0	-126.3	-4.9	126.6	0.24
6,247.0	0.7	159.8	6,244.0	-126.8	-6.9	127.2	0.12
6,437.0	1.2	178.9	6,433.9	-127.1	-10.0	127.7	0.31
6,626.0	1.1	166.3	6,622.9	-127.4	-13.8	128.1	0.16
6,816.0	2.1	169.6	6,812.8	-128.2	-18.8	129.2	0.52
7,005.0	1.9	172.1	7,001.7	-129.0	-25.2	130.2	0.11
7,194.0	1.2	206.3	7,190.7	-128.4	-29.9	129.8	0.59
7,384.0	0.4	189.0	7,380.6	-127.3	-32.3	128.9	0.41
7,572.0	1.8	137.2	7,568.6	-129.1	-35.1	130.7	0.83
7,761.0	1.4	145.0	7,757.5	-132.1	-39.0	134.0	0.25
7,912.0	1.4	161.1	7,908.5	-133.6	-42.2	135.6	0.26
8,069.0	1.9	205.6	8,065.4	-133.0	-46.3	135.1	0.83
8,259.0	0.7	245.9	8,255.4	-130.4	-49.6	132.7	0.73
8,448.0	1.0	265.0	8,444.3	-127.7	-50.2	130.0	0.21
8,636.0	1.5	283.1	8,632.3	-123.7	-49.8	126.0	0.34
8,826.0	0.6	195.1	8,822.3	-121.0	-50.1	123.3	0.84
9,016.0	1.0	197.3	9,012.3	-120.1	-52.7	122.5	0.24
9,206.0	1.3	197.1	9,202.2	-118.8	-56.5	121.4	0.15
9,351.0	1.2	183.5	9,347.2	-118.0	-59.5	120.8	0.24
9,407.0	1.1	225.1	9,403.2	-117.6	-60.5	120.4	1.45
9,454.0	6.8	298.9	9,450.1	-114.9	-59.5	117.6	13.96
9,502.0	11.3	294.2	9,497.5	-108.2	-56.2	110.8	9.41
9,549.0	16.3	283.6	9,543.1	-97.8	-52.8	100.2	11.85

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
9,597.0	23.0	277.2	9,588.3	-82.1	-50.0	84.4	14.72
9,644.0	31.8	275.6	9,630.0	-60.7	-47.6	62.9	18.90
9,692.0	38.5	277.3	9,669.2	-33.5	-44.5	35.5	13.94
9,739.0	39.6	275.3	9,705.7	-4.2	-41.3	6.0	3.57
9,787.0	42.2	271.3	9,742.0	27.0	-39.5	-25.3	7.66
9,834.0	48.7	265.3	9,775.0	60.5	-40.6	-58.7	16.62
9,881.0	55.6	266.6	9,803.8	97.5	-43.2	-95.7	14.81
9,928.0	61.0	265.4	9,828.5	137.5	-46.0	-135.6	11.64
9,976.0	62.2	264.6	9,851.4	179.6	-49.7	-177.6	2.95
10,023.0	65.8	263.3	9,872.0	221.8	-54.1	-219.6	7.95
10,071.0	69.9	264.6	9,890.1	266.1	-58.8	-263.8	8.90
10,118.0	74.3	267.7	9,904.6	310.8	-61.8	-308.4	11.25
10,165.0	77.8	270.4	9,915.9	356.4	-62.5	-354.0	9.34
10,212.0	80.8	270.4	9,924.7	402.5	-62.2	-400.2	6.45
10,260.0	84.5	269.8	9,930.8	450.1	-62.1	-447.8	7.71
10,307.0	87.2	270.5	9,934.3	496.9	-62.0	-494.6	6.12
10,354.0	89.1	271.0	9,935.8	543.8	-61.4	-541.6	4.07
10,449.0	90.3	270.5	9,936.3	638.6	-60.2	-636.6	1.32
10,544.0	91.0	270.7	9,935.2	733.5	-59.2	-731.6	0.80
10,639.0	88.1	268.3	9,936.0	828.4	-60.0	-826.6	3.99
10,734.0	89.8	269.7	9,937.8	923.4	-61.7	-921.5	2.29
10,828.0	87.9	269.1	9,939.7	1,017.3	-62.8	-1,015.5	2.11
10,923.0	91.0	270.1	9,940.6	1,112.2	-63.5	-1,110.5	3.49
11,017.0	91.5	269.9	9,938.6	1,206.1	-63.4	-1,204.5	0.59
11,112.0	88.2	268.7	9,938.8	1,301.0	-64.5	-1,299.4	3.75
11,207.0	90.4	268.8	9,940.0	1,396.0	-66.6	-1,394.4	2.41
11,302.0	92.2	269.0	9,937.9	1,490.9	-68.4	-1,489.4	1.81
11,398.0	92.5	268.1	9,933.9	1,586.8	-70.8	-1,585.2	1.05
11,492.0	92.8	267.7	9,929.6	1,680.7	-74.2	-1,679.1	0.50
11,588.0	91.5	267.2	9,926.0	1,776.6	-78.5	-1,774.9	1.46
11,683.0	91.6	266.1	9,923.4	1,871.6	-84.0	-1,869.7	1.13
11,778.0	91.3	265.4	9,921.0	1,966.5	-91.0	-1,964.4	0.86
11,873.0	92.3	265.8	9,918.0	2,061.4	-98.3	-2,059.1	1.17
11,967.0	90.6	265.1	9,915.7	2,155.3	-105.8	-2,152.8	2.01
12,063.0	88.9	265.8	9,916.1	2,251.3	-113.4	-2,248.5	1.94
12,158.0	89.0	267.3	9,917.9	2,346.2	-119.1	-2,343.3	1.54
12,253.0	89.8	268.0	9,919.0	2,441.2	-123.0	-2,438.2	1.13
12,348.0	90.6	269.4	9,918.7	2,536.2	-125.2	-2,533.1	1.77
12,442.0	91.8	268.7	9,916.7	2,630.1	-126.7	-2,627.1	1.45
12,537.0	90.3	267.9	9,915.0	2,725.1	-129.6	-2,722.1	1.72
12,631.0	90.6	267.6	9,914.2	2,819.1	-133.3	-2,816.0	0.37
12,726.0	89.4	267.5	9,914.3	2,914.1	-137.3	-2,910.9	1.31
12,821.0	92.5	268.8	9,912.7	3,009.1	-140.3	-3,005.8	3.57
12,916.0	92.9	268.6	9,908.3	3,104.0	-142.4	-3,100.7	0.50
13,011.0	93.4	268.9	9,903.1	3,198.8	-144.6	-3,195.5	0.69
13,106.0	90.6	266.9	9,899.8	3,293.7	-148.1	-3,290.4	3.66
13,201.0	90.2	266.4	9,899.2	3,388.7	-153.6	-3,385.2	0.64
13,295.0	91.4	268.0	9,897.8	3,482.7	-158.2	-3,479.1	2.09
13,390.0	91.7	267.7	9,895.2	3,577.6	-161.8	-3,574.0	0.41
13,484.0	93.8	268.3	9,890.7	3,671.5	-165.0	-3,667.8	2.32
13,580.0	92.3	267.4	9,885.5	3,767.4	-168.6	-3,763.6	1.82
13,674.0	94.1	268.1	9,880.3	3,861.2	-172.3	-3,857.4	2.01
13,770.0	91.4	266.4	9,875.7	3,957.1	-176.9	-3,953.2	3.25
13,864.0	91.4	266.6	9,873.3	4,051.1	-182.6	-4,046.9	0.21
13,959.0	91.2	265.6	9,871.2	4,146.0	-189.0	-4,141.7	1.10
14,054.0	92.7	267.3	9,867.9	4,240.9	-194.9	-4,236.5	2.40
14,149.0	92.9	266.9	9,863.3	4,335.8	-199.7	-4,331.2	0.45
14,244.0	93.9	269.1	9,857.7	4,430.6	-203.1	-4,426.0	2.48
14,338.0	94.4	268.8	9,850.9	4,524.4	-204.8	-4,519.7	0.60
14,432.0	91.7	268.7	9,846.0	4,618.2	-206.8	-4,613.6	2.86
14,527.0	93.7	268.4	9,841.5	4,713.1	-209.2	-4,708.4	2.18
14,584.0	93.9	268.2	9,837.7	4,769.9	-210.8	-4,765.3	0.53
14,640.0	93.9	268.2	9,833.8	4,825.8	-212.6	-4,821.1	0.00