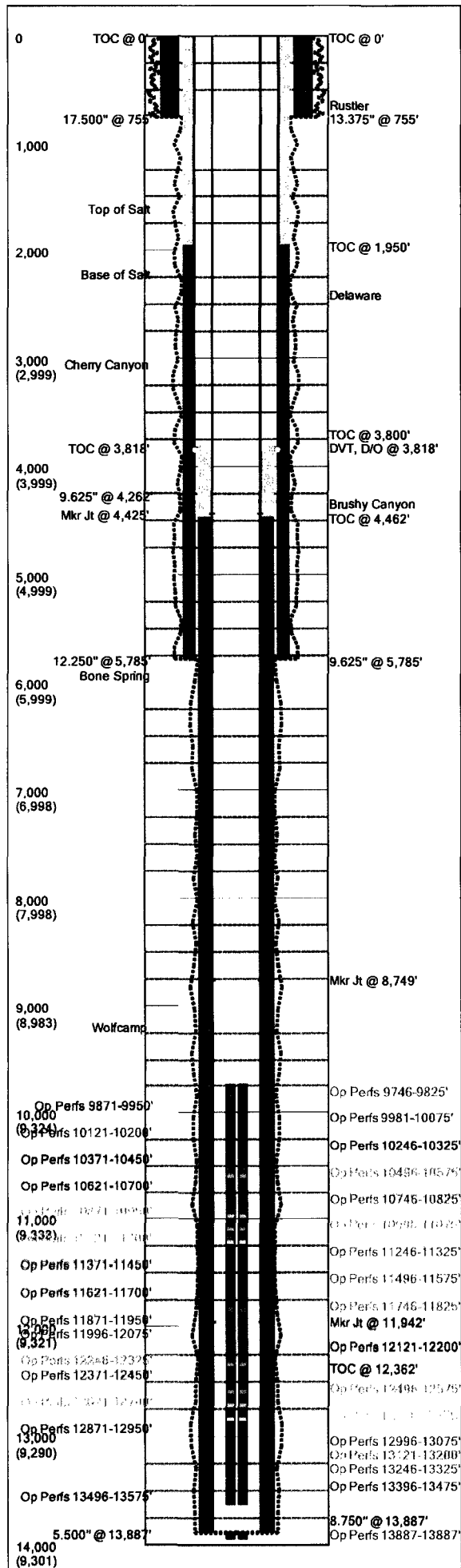




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Field Name	Lease Name	Well No.
Black River	Mad River 13 State	3H
County	State	API No.
Eddy	New Mexico	30015438980000
Version	Version Tag	
1	Completed	
GL (ft)	KB (ft)	Section
3,102.0	3,124.0	13
Township/Block	Range/Survey	
24S	27E	
Operator	Well Status	Latitude
Caza Oil and Gas, Inc	Completed	32.211285
Longitude		-104.135825
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)
330	FSL	175
E/W Line	Footage From	
	Section	
Prop Num	Spud Date	Comp. Date
39924	10/27/2016	1/2/2017
Additional Information		
OGRID	Well Type	Pool Name and Number
249099	Horizontal Oil	WC-015 G-06
		S242713N; Wpper
		Wolfcamp
Lease No. and Bond No.		
Prepared By	Updated By	Last Updated
Steve Morris	Steve Morris	3/15/2017 6:45 AM

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	17.500	0	755	
10/31/2016	12.250	755	5,785	
11/9/2016	8.750	5,785	13,887	

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
10/27/2016	Surface Casing	13.375	54.50	J55	0	755
11/2/2016	Intermediate Casing	9.625	40.00	J55	0	4,262
11/2/2016	Intermediate Casing	9.625	40.00	L80	4,262	5,785
11/11/2016	Production Casing	5.500	20.00	HCP	0	13,887

Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	813	13.375	0	755	Circulated 295sx
11/2/2016	295	9.625	0	1,950	Circulated 80bbls to surface
11/2/2016	440	9.625	1,950	3,818	
11/2/2016	350	9.625	3,818	5,785	
11/11/2016	769	5.500	3,800	4,462	TOC - Temp log
11/11/2016	1,626	5.500	4,462	12,362	
11/11/2016	150	5.500	12,362	13,887	

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
11/2/2016	DVT, D/O	8.750	0.000	3,818	0
11/11/2016	Mkr Jt	5.500	0.000	4,425	4,446
11/11/2016	Mkr Jt	5.500	0.000	8,749	8,770
11/11/2016	Mkr Jt	5.500	0.000	11,942	11,963

Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
12/23/2016	Open	Wolfcamp	9,746	9,825	128
12/23/2016	Open	Wolfcamp	9,871	9,950	128
12/23/2016	Open	Wolfcamp	9,981	10,075	128
12/23/2016	Open	Wolfcamp	10,121	10,200	128
12/23/2016	Open	Wolfcamp	10,246	10,325	128
12/23/2016	Open	Wolfcamp	10,371	10,450	128
12/23/2016	Open	Wolfcamp	10,496	10,575	128
12/23/2016	Open	Wolfcamp	10,621	10,700	128
12/23/2016	Open	Wolfcamp	10,746	10,825	128
12/22/2016	Open	Wolfcamp	10,871	10,950	128
12/22/2016	Open	Wolfcamp	10,996	11,075	128
12/22/2016	Open	Wolfcamp	11,121	11,200	128
12/22/2016	Open	Wolfcamp	11,246	11,325	128
12/22/2016	Open	Wolfcamp	11,371	11,450	128
12/22/2016	Open	Wolfcamp	11,496	11,575	128
12/22/2016	Open	Wolfcamp	11,621	11,700	128
12/21/2016	Open	Wolfcamp	11,746	11,825	128
12/21/2016	Open	Wolfcamp	11,871	11,950	128

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C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	12/21/2016	Open	Wolfcamp	11,996	12,075	128
	12/21/2016	Open	Wolfcamp	12,121	12,200	128
	12/21/2016	Open	Wolfcamp	12,246	12,325	128
	12/21/2016	Open	Wolfcamp	12,371	12,450	128
	12/21/2016	Open	Wolfcamp	12,496	12,575	128
	12/20/2016	Open	Wolfcamp	12,621	12,700	128
	12/20/2016	Open	Wolfcamp	12,746	12,825	128
	12/20/2016	Open	Wolfcamp	12,871	12,950	128
	12/20/2016	Open	Wolfcamp	12,996	13,075	128
	12/20/2016	Open	Wolfcamp	12,996	13,075	128
	12/20/2016	Open	Wolfcamp	13,121	13,200	128
	12/20/2016	Open	Wolfcamp	13,121	13,200	128
	12/20/2016	Open	Wolfcamp	13,246	13,325	128
	12/20/2016	Open	Wolfcamp	13,246	13,325	128
	12/19/2016	Open	Wolfcamp	13,396	13,475	128
	12/18/2016	Open	Wolfcamp	13,496	13,575	128
	12/18/2016	Open	Wolfcamp	13,887	13,887	

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	751	
Top of Salt	1,599	
Base of Salt	2,199	
Delaware	2,400	
Cherry Canyon	3,033	
Brushy Canyon	4,327	
Bone Spring	5,908	
Wolfcamp	9,115	

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Field Name		Lease Name		Well No.	County	State	API No.		
Black River		Mad River 13 State		3H	Eddy	New Mexico	30015438980000		
Version	Version Tag				Spud Date	Comp. Date	GL (ft)	KB (ft)	
1		Completed				10/27/2016	1/2/2017	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		330	FSL	175	FEL	Section
Operator			Well Status			Latitude		Longitude	Prop Num
Caza Oil and Gas, Inc			Completed			32.211285		-104.135825	39924
OGRID		Well Type		Pool Name and Number				Lease No. and Bond No.	
249099		Horizontal Oil		WC-015 G-06 S242713N; Wpper Wolfcamp					
Last Updated		Prepared By				Updated By			
03/15/2017 6:45 AM		Steve Morris				Steve Morris			
Additional Information									

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	17.500	0	755	
10/31/2016	12.250	755	5,785	
11/9/2016	8.750	5,785	13,887	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	Surface Casing	18	13.375	54.50	J55	0	755	
11/2/2016	Intermediate Casing	101	9.625	40.00	J55	0	4,262	
11/2/2016	Intermediate Casing	36	9.625	40.00	L80	4,262	5,785	
11/11/2016	Production Casing	324	5.500	20.00	HCP	0	13,887	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	10/27/2016	813	1.33	1,081	13.375	0	755	14.8ppg	Circulated 295sx
	11/2/2016	295	2.06	608	9.625	0	1,950	12.7ppg	Circulated 80bbbls to surface
	11/2/2016	440	1.33	585	9.625	1,950	3,818	14.8ppg	
	11/2/2016	350	1.33	466	9.625	3,818	5,785		
	11/11/2016	769	3.21	2,468	5.500	3,800	4,462	11ppg 50/50 Poz H	TOC - Temp log
	11/11/2016	1,626	1.23	2,000	5.500	4,462	12,362	14.4ppg 50/50 Poz H	
	11/11/2016	150	2.56	384	5.500	12,362	13,887	15ppg Class H	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
11/2/2016	DV tool (drilled out)	8.750	0.000	3,818	0		
11/11/2016	Marker Joint	5.500	0.000	4,425	4,446		
11/11/2016	Marker Joint	5.500	0.000	8,749	8,770		
11/11/2016	Marker Joint	5.500	0.000	11,942	11,963		

Perforation Summary

C	Date	Perf. Status	Formation	Comments
	12/18/2016	Open	Wolfcamp	Pumped 30,000# 40/70 White, 285,280# 20/40 White, and 64,580# 20/40 CRC. AR-71bpm, MaxR-74bpm, AP-6128#, MaxP-7458#. ISIP-3561#.
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,887	13,887		
	Phasing (deg)	Interval Comments		
C	Date	Perf. Status	Formation	Comments
	12/18/2016	Open	Wolfcamp	Pumped 35,000# 40/70 White, 270,280# 20/40 White, and 24,380# 20/40 CRC. AR-69bpm, MaxR-77bpm, AP-6747#, MaxP-9022#. ISIP-4058#
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,571	13,575	8	32
	13,546	13,550	8	32
	13,521	13,525	8	32
	13,496	13,500	8	32
	Phasing (deg)	Interval Comments		
C	Date	Perf. Status	Formation	Comments
	12/19/2016	Open	Wolfcamp	Pumped 15,000# 40/70 White, 245,280# 20/40 White, and 35,520# 20/40 CRC. AR-70bpm, MaxR-76bpm, AP-6689#, MaxP-7228#. ISIP-2926#.
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,471	13,475	8	32
	13,446	13,450	8	32
	13,421	13,425	8	32
	13,396	13,400	8	32
	Phasing (deg)	Interval Comments		
C	Date	Perf. Status	Formation	Comments
	12/20/2016	Open	Wolfcamp	4397 bbls comprised of 81 bbls of 15% HCL, 17 bbls Rhino NSF, 322 bbls Liberty FR, 190 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,000# 40/70 White, 235,280# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6783#, MaxP-7351#. I
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	Phasing (deg)	Interval Comments		

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,321	13,325	8	32	60	
	13,296	13,300	8	32	60	
	13,271	13,275	8	32	60	
	13,246	13,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4090 bbls comprised of 36 bbls of 15% HCL, 27 bbls Rhino NSF, 179 bbls Liberty FR, 239 bbls treated water, and 3161 bbls 16# Justice. Pumped 30,000# 40/70 White, 180,400# 20/40 White, and 34,800# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6757#, MaxP-7537#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,196	13,200	8	32	60	
	13,171	13,175	8	32	60	
	13,146	13,150	8	32	60	
	13,121	13,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4055 bbls comprised of 49 bbls of 15% HCL, 27 bbls Rhino NSF, 173 bbls Liberty FR, 221 bbls treated water, and 3167 bbls 16# Justice. Pumped 45,000# 40/70 White, 200,060# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6826#, MaxP-7674#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,071	13,075	8	32	60	
	13,046	13,050	8	32	60	
	13,021	13,025	8	32	60	
	12,996	13,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4053 bbls comprised of 35 bbls of 15% HCL, 11 bbls Rhino NSF, 427 bbls Liberty FR, 201 bbls treated water, and 3274 bbls 16# Justice. Pumped 29,220# 40/70 White, 229,520# 20/40 White, and 30,100# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6956#, MaxP-7608#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,821	12,825	8	32	60	
	12,796	12,800	8	32	60	
	12,771	12,775	8	32	60	
	12,746	12,750	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4074 bbls comprised of 38 bbls of 15% HCL, 15 bbls Rhino NSF, 440 bbls Liberty FR, 205 bbls treated water, and 3258 bbls 16# Justice. Pumped 31,000# 40/70 White, 229,780# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6643#, MaxP-7292#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,696	12,700	8	32	60	
	12,671	12,675	8	32	60	
	12,646	12,650	8	32	60	
	12,621	12,625	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4159 bbls comprised of 95 bbls of 15% HCL, 18 bbls Rhino NSF, 404 bbls Liberty FR, 191 bbls treated water, and 3337 bbls 16# Justice. Pumped 28,140# 40/70 White, 229,720# 20/40 White, and 33,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6438#, MaxP-7564#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,571	12,575	8	32	60	
	12,546	12,550	8	32	60	
	12,521	12,525	8	32	60	
	12,496	12,500	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4192 bbls comprised of 87 bbls of 15% HCL, 5 bbls Rhino NSF, 378 bbls Liberty FR, 190 bbls treated water, and 3376 bbls 16# Justice. Pumped 31,960# 40/70 White, 225,100# 20/40 White, and 31,780# 20/40 CRC. AR-72bpm, MaxR-76bpm, AP-6548#, MaxP-8214#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,446	12,450	8	32	60	
	12,421	12,425	8	32	60	
	12,396	12,400	8	32	60	
	12,371	12,375	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4060 bbls comprised of 20 bbls of 15% HCL, 27 bbls Rhino NSF, 392 bbls Liberty FR, 187 bbls treated water, and 3306 bbls 16# Justice. Pumped 30,000# 40/70 White, 235,180# 20/40 White, and 26,060# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6652#, MaxP-7943#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,321	12,325	8	32	60	
	12,296	12,300	8	32	60	
	12,271	12,275	8	32	60	

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,246	12,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4147 bbls comprised of 39 bbls of 15% HCL, 35 bbls Rhino NSF, 392 bbls Liberty FR, 178 bbls treated water, and 3314 bbls 16# Justice. Pumped 45,000# 40/70 White, 208,200# 20/40 White, and 28,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6325#, MaxP-8029#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,196	12,200	8	32	60	
	12,171	12,175	8	32	60	
	12,146	12,150	8	32	60	
	12,121	12,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4397 bbls comprised of 81 bbls of 15% HCL, 17 bbls Rhino NSF, 322 bbls Liberty FR, 190 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,000# 40/70 White, 235,280# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6783#, MaxP-7351#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,321	13,325	8	32	60	
	13,296	13,300	8	32	60	
	13,271	13,275	8	32	60	
	13,246	13,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4090 bbls comprised of 36 bbls of 15% HCL, 27 bbls Rhino NSF, 179 bbls Liberty FR, 239 bbls treated water, and 3161 bbls 16# Justice. Pumped 30,000# 40/70 White, 180,400# 20/40 White, and 34,800# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6757#, MaxP-7537#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,196	13,200	8	32	60	
	13,171	13,175	8	32	60	
	13,146	13,150	8	32	60	
	13,121	13,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4055 bbls comprised of 49 bbls of 15% HCL, 27 bbls Rhino NSF, 173 bbls Liberty FR, 221 bbls treated water, and 3167 bbls 16# Justice. Pumped 45,000# 40/70 White, 200,060# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6826#, MaxP-7674#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,071	13,075	8	32	60	
	13,046	13,050	8	32	60	
	13,021	13,025	8	32	60	
	12,996	13,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4218 bbls comprised of 41 bbls of 15% HCL, 21 bbls Rhino NSF, 497 bbls Liberty FR, 213 bbls treated water, and 3335 bbls 16# Justice. Pumped 28,980# 40/70 White, 230,060# 20/40 White, and 34,080# 20/40 CRC. AR-73bpm, MaxR-75bpm, AP-6792#, MaxP-7246#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,946	12,950	8	32	60	
	12,921	12,925	8	32	60	
	12,896	12,900	8	32	60	
	12,871	12,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		2892 bbls comprised of 36 bbls of 15% HCL, 34 bbls Rhino NSF, 387 bbls Liberty FR, 166 bbls treated water, and 2182 bbls 16# Justice. Pumped 33,000# 40/70 White, 52,200# 20/40 White, and 0# 20/40 CRC. AR-58bpm, MaxR-80bpm, AP-5475#, MaxP-8104#. ISIP-35	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,071	12,075	8	32	60	
	12,046	12,050	8	32	60	
	12,021	12,025	8	32	60	
	11,996	12,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4025 bbls comprised of 36 bbls of 15% HCL, 14 bbls Rhino NSF, 417 bbls Liberty FR, 153 bbls treated water, and 3295 bbls 16# Justice. Pumped 29,020# 40/70 White, 225,040# 20/40 White, and 28,580# 20/40 CRC. AR-72bpm, MaxR-80bpm, AP-6298#, MaxP-7023#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,946	11,950	8	32	60	
	11,921	11,925	8	32	60	
	11,896	11,900	8	32	60	
	11,871	11,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	

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C	Date	Perf. Status	Formation	Comments		
	12/21/2016	Open	Wolfcamp	4114 bbls comprised of 36 bbls of 15% HCL, 17 bbls Rhino NSF, 407 bbls Liberty FR, 157 bbls treated water, and 3362 bbls 16# Justice. Pumped 28,000# 40/70 White, 235,360# 20/40 White, and 25,000# 20/40 CRC. AR-73bpm, MaxR-78bpm, AP-6400#, MaxP-8411#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,796	11,800	8	32	60	
	11,771	11,775	8	32	60	
	11,746	11,750	8	32	60	
	11,821	11,825	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4698 bbls comprised of 33 bbls of 15% HCL, 23 bbls Rhino NSF, 391 bbls Liberty FR, 145 bbls treated water, and 3918 bbls 16# Justice. Pumped 45,180# 40/70 White, 240,280# 20/40 White, and 22,720# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6228#, MaxP-6064#. IS		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,696	11,700	8	32	60	
	11,671	11,675	8	32	60	
	11,646	11,650	8	32	60	
	11,621	11,625	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	5087 bbls comprised of 39 bbls of 15% HCL, 12 bbls Rhino NSF, 745 bbls Liberty FR, 157 bbls treated water, and 4033 bbls 16# Justice. Pumped 30,060# 40/70 White, 223,260# 20/40 White, and 25,000# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6548#, MaxP-8214#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,571	11,575	8	32	60	
	11,546	11,550	8	32	60	
	11,521	11,525	8	32	60	
	11,496	11,500	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4122 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 404 bbls Liberty FR, 133 bbls treated water, and 3375 bbls 16# Justice. Pumped 29,960# 40/70 White, 222,160# 20/40 White, and 40,000# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6623#, MaxP-7539#. I		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,446	11,450	8	32	60	
	11,421	11,425	8	32	60	
	11,396	11,400	8	32	60	
	11,371	11,375	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4008 bbls comprised of 36 bbls of 15% HCL, 15 bbls Rhino NSF, 391 bbls Liberty FR, 116 bbls treated water, and 3337 bbls 16# Justice. Pumped 30,000# 40/70 White, 230,020# 20/40 White, and 30,380# 20/40 CRC. AR-74bpm, MaxR-80bpm, AP-6504#, MaxP-8005#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,321	11,325	8	32	60	
	11,296	11,300	8	32	60	
	11,271	11,275	8	32	60	
	11,246	11,250	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	3997 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 398 bbls Liberty FR, 120 bbls treated water, and 3304 bbls 16# Justice. Pumped 29,180# 40/70 White, 221,320# 20/40 White, and 35,320# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6503#, MaxP-7721#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,196	11,200	8	32	60	
	11,171	11,175	8	32	60	
	11,146	11,150	8	32	60	
	11,121	11,125	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4091 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 381 bbls Liberty FR, 110 bbls treated water, and 3413 bbls 16# Justice. Pumped 25,960# 40/70 White, 230,040# 20/40 White, and 25,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6427#, MaxP-7591#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,071	11,075	8	32	60	
	11,046	11,050	8	32	60	
	11,021	11,025	8	32	60	
	10,996	11,000	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	3937 bbls comprised of 36 bbls of 15% HCL, 15 bbls Rhino NSF, 406 bbls Liberty FR, 103 bbls treated water, and 3271 bbls 16# Justice. Pumped 30,000# 40/70 White, 245,000# 20/40 White, and 30,520# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6348#, MaxP-7983#.		

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,946	10,950	8	32	60	
	10,921	10,925	8	32	60	
	10,896	10,900	8	32	60	
	10,871	10,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3936 bbls comprised of 36 bbls of 15% HCL, 12 bbls Rhino NSF, 364 bbls Liberty FR, 103 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,060# 40/70 White, 235,220# 20/40 White, and 20,600# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6255#, MaxP-7665#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,821	10,825	8	32	60	
	10,796	10,800	8	32	60	
	10,771	10,775	8	32	60	
	10,746	10,750	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3949 bbls comprised of 36 bbls of 15% HCL, 16 bbls Rhino NSF, 378 bbls Liberty FR, 93 bbls treated water, and 3274 bbls 16# Justice. Pumped 28,080# 40/70 White, 235,160# 20/40 White, and 35,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6399#, MaxP-7822#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,696	10,700	8	32	60	
	10,671	10,675	8	32	60	
	10,646	10,650	8	32	60	
	10,621	10,625	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3937 bbls comprised of 36 bbls of 15% HCL, 10 bbls Rhino NSF, 364 bbls Liberty FR, 85 bbls treated water, and 3315 bbls 16# Justice. Pumped 29,000# 40/70 White, 229,860# 20/40 White, and 30,820# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6142#, MaxP-7726#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,571	10,575	8	32	60	
	10,546	10,550	8	32	60	
	10,521	10,525	8	32	60	
	10,496	10,500	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3841 bbls comprised of 36 bbls of 15% HCL, 12 bbls Rhino NSF, 380 bbls Liberty FR, 74 bbls treated water, and 3206 bbls 16# Justice. Pumped 24,060# 40/70 White, 234,810# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6451#, MaxP-7665#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,446	10,450	8	32	60	
	10,421	10,425	8	32	60	
	10,396	10,400	8	32	60	
	10,371	10,375	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3819 bbls comprised of 36 bbls of 15% HCL, 12 bbls Rhino NSF, 413 bbls Liberty FR, 68 bbls treated water, and 3187 bbls 16# Justice. Pumped 29,000# 40/70 White, 229,940# 20/40 White, and 29,700# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6364#, MaxP-7651#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,321	10,325	8	32	60	
	10,296	10,300	8	32	60	
	10,271	10,275	8	32	60	
	10,246	10,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3873 bbls comprised of 36 bbls of 15% HCL, 13 bbls Rhino NSF, 401 bbls Liberty FR, 63 bbls treated water, and 3251 bbls 16# Justice. Pumped 25,060# 40/70 White, 230,500# 20/40 White, and 29,580# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6558#, MaxP-7924#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,196	10,200	8	32	60	
	10,171	10,175	8	32	60	
	10,146	10,150	8	32	60	
	10,121	10,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3833 bbls comprised of 36 bbls of 15% HCL, 13 bbls Rhino NSF, 406 bbls Liberty FR, 63 bbls treated water, and 3216 bbls 16# Justice. Pumped 25,000# 40/70 White, 230,320# 20/40 White, and 28,580# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6823#, MaxP-8453#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,071	10,075	8	32	60	
	10,041	10,045	8	32	60	

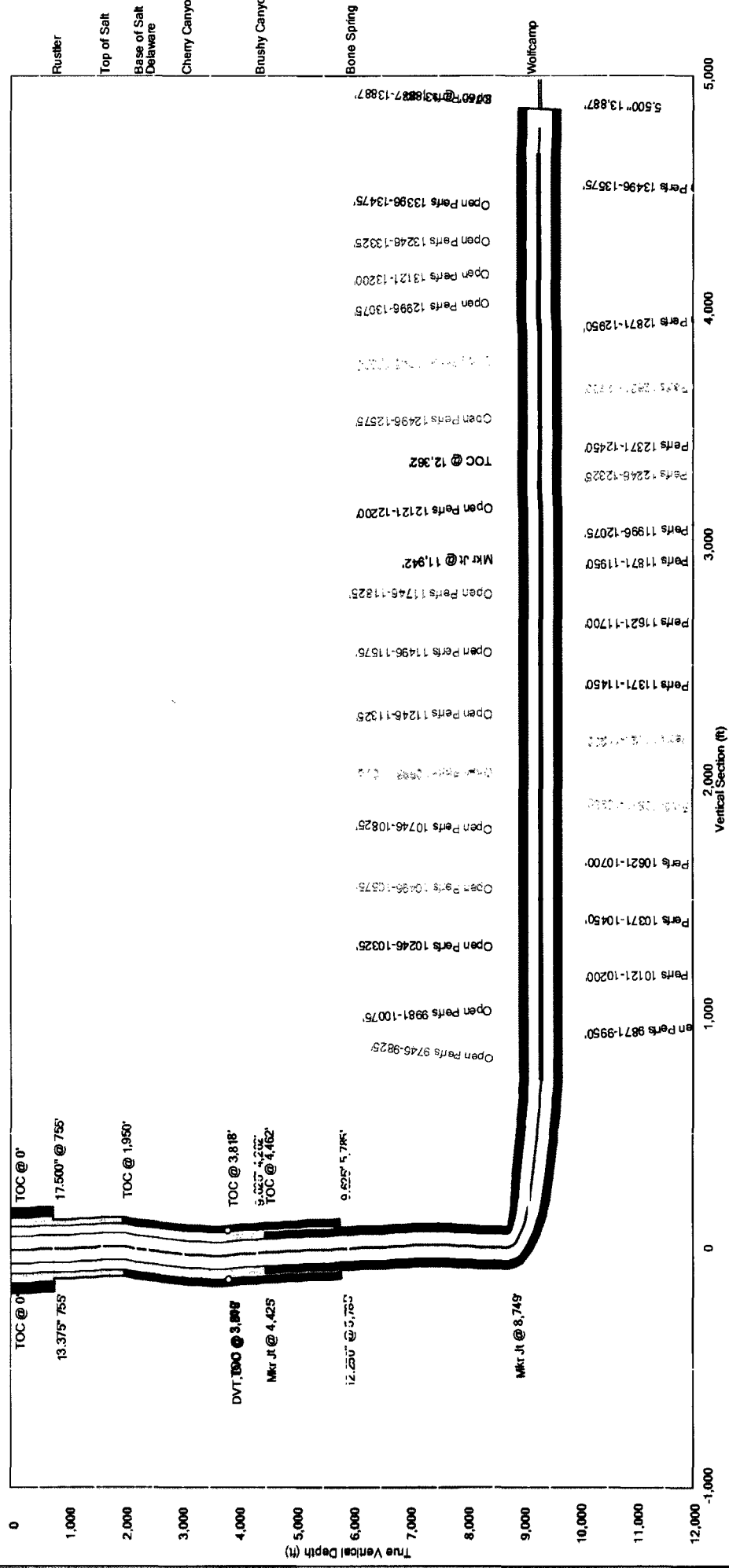
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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,011	10,015	8	32	60	
	9,981	9,985	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3782 bbls comprised of 36 bbls of 15% HCL, 11 bbls Rhino NSF, 406 bbls Liberty FR, 53 bbls treated water, and 3180 bbls 16# Justice. Pumped 23,000# 40/70 White, 230,260# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6707#, MaxP-7763#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	9,946	9,950	8	32	60	
	9,921	9,925	8	32	60	
	9,896	9,900	8	32	60	
	9,871	9,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		4084 bbls comprised of 36 bbls of 15% HCL, 48 bbls Rhino NSF, 349 bbls Liberty FR, 57 bbls treated water, and 3409 bbls 16# Justice. Pumped 22,000# 40/70 White, 235,000# 20/40 White, and 35,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6337#, MaxP-7598#. ISIP	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	9,821	9,825	8	32	60	
	9,796	9,800	8	32	60	
	9,771	9,775	8	32	60	
	9,746	9,750	8	32	60	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	751	
Top of Salt	1,599	
Base of Salt	2,199	
Delaware	2,400	
Cherry Canyon	3,033	
Brushy Canyon	4,327	
Bone Spring	5,908	
Wolfcamp	9,115	

Field Name	Lease Name	Well No.	County	State	API No.	Version	Version Tag	Spud Date	Comp. Date	G.L. (ft)	K.B. (ft)
Black River	Mad River 13 State	3H	Eddy	New Mexico	30015438980000	1	Completed	10/27/2016	1/2/2017	3,102.0	3,124.0
Sec.	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	Latitude	Longitude	Well Status	PropNum
13	24S	27E	330	FSL	175	FEL		32.211285	-104.135825	Completed	39924
Operator											
Caza Oil and Gas, Inc											
Last Updated	Prepared By	Updated By	Additional Information								
3/15/2017 6:45:43 AM	Steve Morris	Steve Morris									

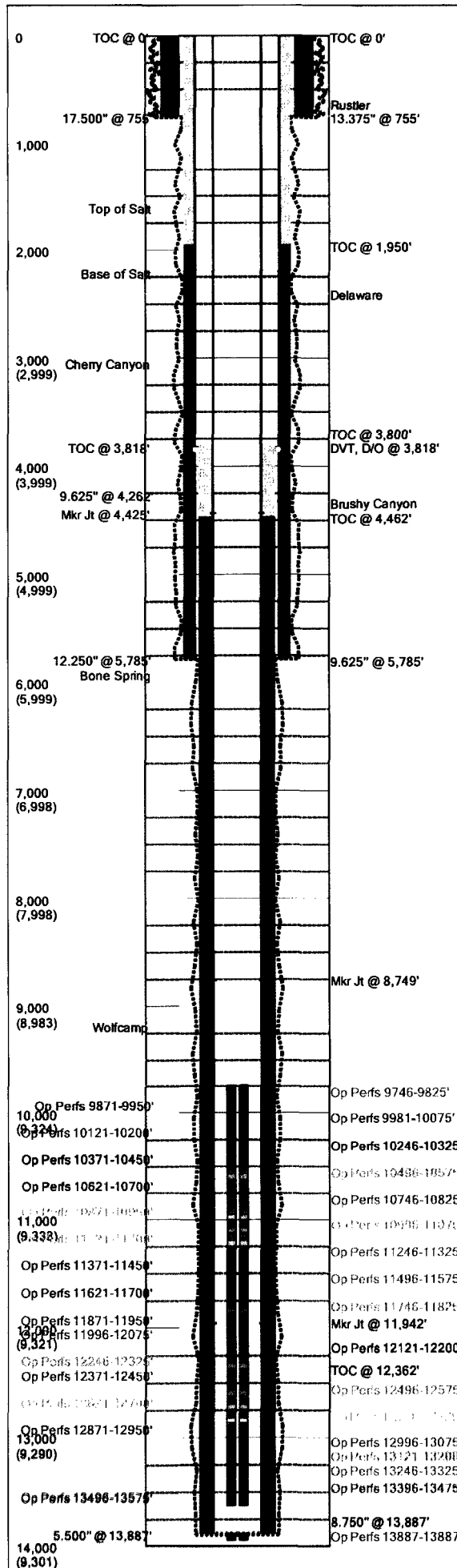


Field Name		Lease Name		Well No.	API No.	Version	Version Tag			
Black River		Mad River 13 State		3H	30015438980000	1	Completed			
Section	Township/Block		Range/Survey		County		State		GL (ft)	KB (ft)
13	24S		27E		Eddy		New Mexico		3,102.0	3,124.0
Target N (-S) (ft)		Target E (-W) (ft)		Latitude		Longitude		Operator		Well Status
-54.53241		-4775.45		32.211285		-104.135825		Caza Oil and Gas, Inc		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
219.0	0.4	270.8	219.0	0.8	0.0	-0.8	0.18
347.0	0.7	195.0	347.0	1.4	-0.7	-1.4	0.56
516.0	1.2	203.1	516.0	2.4	-3.4	-2.4	0.31
691.0	0.7	192.4	690.9	3.4	-6.1	-3.3	0.30
868.0	1.1	206.1	867.9	4.4	-8.7	-4.3	0.26
1,052.0	1.5	202.5	1,051.9	6.1	-12.5	-6.0	0.22
1,239.0	1.2	211.5	1,238.8	8.1	-16.4	-8.0	0.20
1,430.0	1.1	254.8	1,429.8	11.0	-18.6	-10.8	0.45
1,621.0	0.9	307.3	1,620.8	13.9	-18.2	-13.7	0.47
1,811.0	0.6	327.6	1,810.7	15.6	-16.4	-15.5	0.21
2,002.0	1.5	66.4	2,001.7	13.9	-14.6	-13.7	0.89
2,192.0	3.2	97.8	2,191.6	6.3	-14.3	-6.2	1.09
2,382.0	2.2	57.3	2,381.4	-2.0	-13.1	2.2	1.10
2,571.0	1.8	50.2	2,570.3	-7.4	-9.2	7.5	0.25
2,760.0	1.8	46.5	2,759.2	-11.9	-5.3	11.9	0.06
2,949.0	1.6	45.9	2,948.1	-16.0	-1.4	16.0	0.11
3,140.0	1.5	42.4	3,139.0	-19.6	2.3	19.6	0.07
3,330.0	1.2	33.3	3,329.0	-22.4	5.8	22.3	0.19
3,520.0	1.2	31.9	3,518.9	-24.6	9.2	24.5	0.02
3,710.0	1.0	240.4	3,708.9	-24.2	10.0	24.1	1.12
3,900.0	1.1	240.7	3,898.9	-21.2	8.3	21.1	0.05
4,089.0	1.0	232.6	4,087.8	-18.2	6.4	18.2	0.09
4,279.0	1.0	253.4	4,277.8	-15.3	5.0	15.3	0.19
4,469.0	0.8	224.9	4,467.8	-12.8	3.6	12.7	0.25
4,659.0	0.9	252.2	4,657.8	-10.4	2.2	10.4	0.22
4,848.0	0.9	248.7	4,846.7	-7.6	1.2	7.6	0.03
5,038.0	0.7	242.4	5,036.7	-5.2	0.1	5.2	0.11
5,227.0	0.6	227.3	5,225.7	-3.4	-1.1	3.4	0.10
5,415.0	0.6	227.7	5,413.7	-1.9	-2.5	2.0	0.00
5,605.0	0.7	236.4	5,603.7	-0.2	-3.8	0.3	0.07
5,789.0	1.5	223.9	5,787.7	2.4	-6.1	-2.3	0.45
5,978.0	1.2	261.2	5,976.6	6.1	-8.2	-6.0	0.48
6,166.0	1.1	344.8	6,164.6	8.5	-6.8	-8.4	0.82
6,355.0	1.4	192.4	6,353.6	9.5	-7.3	-9.4	1.29
6,544.0	1.0	197.2	6,542.5	10.5	-11.1	-10.4	0.22
6,732.0	1.1	256.4	6,730.5	12.8	-13.1	-12.6	0.55
6,921.0	1.3	263.9	6,919.4	16.7	-13.7	-16.5	0.13
7,110.0	0.4	255.9	7,108.4	19.5	-14.1	-19.3	0.48
7,300.0	0.4	26.8	7,298.4	19.8	-13.7	-19.6	0.38
7,488.0	1.5	168.6	7,486.4	19.0	-15.5	-18.9	0.97
7,677.0	0.6	85.6	7,675.4	17.6	-17.9	-17.4	0.82
7,866.0	0.3	97.9	7,864.4	16.1	-17.9	-15.9	0.17
8,055.0	0.5	117.2	8,053.4	14.9	-18.3	-14.7	0.13
8,245.0	1.6	92.8	8,243.3	11.5	-18.8	-11.3	0.61
8,435.0	1.0	57.6	8,433.3	7.5	-18.1	-7.2	0.51
8,623.0	0.7	303.3	8,621.3	7.0	-16.6	-6.8	0.76
8,681.0	0.9	300.4	8,679.3	7.7	-16.1	-7.5	0.35
8,740.0	1.3	267.3	8,738.3	8.8	-15.9	-8.6	1.25
8,787.0	6.8	257.4	8,785.1	12.0	-16.6	-11.8	11.75
8,834.0	12.3	257.8	8,831.5	19.7	-18.2	-19.4	11.70
8,881.0	19.9	256.8	8,876.6	32.4	-21.1	-32.1	16.18
8,929.0	24.5	256.6	8,921.0	50.1	-25.3	-49.8	9.58
8,976.0	30.4	257.4	8,962.7	71.2	-30.1	-70.9	12.58
9,024.0	36.0	257.9	9,002.8	97.0	-35.8	-96.6	11.68
9,071.0	42.1	259.9	9,039.3	126.1	-41.4	-125.6	13.25

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
9,119.0	47.0	261.1	9,073.5	159.3	-47.0	-158.8	10.36
9,166.0	53.2	263.5	9,103.7	195.1	-51.8	-194.5	13.76
9,214.0	58.1	266.2	9,130.7	234.6	-55.3	-234.0	11.21
9,261.0	61.6	267.7	9,154.3	275.2	-57.4	-274.6	7.94
9,308.0	64.6	268.5	9,175.6	317.1	-58.8	-316.4	6.56
9,355.0	66.5	270.4	9,195.1	359.9	-59.2	-359.2	5.47
9,403.0	66.4	270.8	9,214.2	403.9	-58.8	-403.2	0.79
9,450.0	67.0	270.7	9,232.8	447.0	-58.2	-446.4	1.29
9,497.0	69.6	271.8	9,250.2	490.7	-57.2	-490.0	5.94
9,544.0	71.2	271.5	9,266.0	534.9	-56.0	-534.3	3.46
9,592.0	71.4	271.5	9,281.4	580.3	-54.8	-579.7	0.42
9,639.0	72.5	272.8	9,295.9	625.0	-53.1	-624.4	3.52
9,686.0	75.4	273.9	9,308.9	670.0	-50.5	-669.5	6.57
9,733.0	78.1	273.9	9,319.7	715.6	-47.4	-715.1	5.74
9,780.0	83.0	274.4	9,327.4	761.8	-44.0	-761.3	10.48
9,875.0	92.4	277.8	9,331.2	855.9	-33.9	-855.6	10.52
9,973.0	93.8	277.5	9,325.9	952.8	-20.9	-952.6	1.46
10,067.0	92.3	277.0	9,320.9	1,045.7	-9.0	-1,045.7	1.68
10,162.0	91.2	276.5	9,318.0	1,139.9	2.1	-1,140.0	1.27
10,257.0	88.9	274.3	9,317.9	1,234.4	11.1	-1,234.6	3.35
10,352.0	89.9	271.5	9,318.9	1,329.2	15.9	-1,329.4	3.13
10,447.0	88.7	269.4	9,320.1	1,424.1	16.6	-1,424.4	2.55
10,638.0	89.3	269.4	9,323.4	1,615.1	14.6	-1,615.4	0.31
10,733.0	88.3	267.4	9,325.4	1,710.1	12.0	-1,710.3	2.35
10,923.0	87.9	268.1	9,331.7	1,899.9	4.5	-1,900.1	0.42
11,018.0	90.3	270.4	9,333.2	1,994.9	3.3	-1,995.0	3.50
11,114.0	91.3	271.2	9,331.9	2,090.8	4.6	-2,091.0	1.33
11,209.0	91.3	270.9	9,329.7	2,185.7	6.3	-2,186.0	0.32
11,304.0	91.1	270.3	9,327.7	2,280.7	7.3	-2,280.9	0.67
11,399.0	89.6	268.7	9,327.1	2,375.7	6.5	-2,375.9	2.31
11,495.0	89.5	268.7	9,327.9	2,471.7	4.3	-2,471.9	0.10
11,590.0	89.6	269.2	9,328.6	2,566.7	2.6	-2,566.9	0.54
11,685.0	91.3	269.9	9,327.9	2,661.7	1.8	-2,661.9	1.94
11,780.0	89.7	266.6	9,327.1	2,756.6	-1.1	-2,756.8	3.86
11,875.0	92.0	267.3	9,325.7	2,851.5	-6.1	-2,851.7	2.53
11,970.0	92.2	267.2	9,322.2	2,946.4	-10.7	-2,946.5	0.24
12,065.0	92.4	268.0	9,318.4	3,041.3	-14.6	-3,041.3	0.87
12,160.0	92.0	268.4	9,314.7	3,136.2	-17.6	-3,136.2	0.60
12,256.0	91.6	268.7	9,311.7	3,232.1	-20.1	-3,232.1	0.52
12,351.0	91.3	268.3	9,309.3	3,327.1	-22.5	-3,327.1	0.53
12,446.0	91.3	268.8	9,307.1	3,422.1	-24.9	-3,422.0	0.53
12,541.0	91.0	269.4	9,305.2	3,517.0	-26.4	-3,517.0	0.71
12,635.0	90.7	269.9	9,303.8	3,611.0	-27.0	-3,611.0	0.62
12,731.0	91.3	269.7	9,302.2	3,707.0	-27.3	-3,706.9	0.66
12,826.0	92.3	268.9	9,299.2	3,802.0	-28.5	-3,801.9	1.35
12,921.0	93.5	269.1	9,294.4	3,896.8	-30.2	-3,896.7	1.28
13,016.0	93.5	269.9	9,288.6	3,991.7	-31.0	-3,991.6	0.84
13,081.0	92.7	269.8	9,285.1	4,056.6	-31.2	-4,056.5	1.24
13,207.0	93.0	270.7	9,278.8	4,182.4	-30.6	-4,182.3	0.75
13,302.0	89.8	267.0	9,276.5	4,277.3	-32.5	-4,277.2	5.15
13,397.0	88.4	266.8	9,278.0	4,372.2	-37.7	-4,372.1	1.49
13,492.0	88.0	267.0	9,280.9	4,467.1	-42.8	-4,466.9	0.47
13,587.0	88.1	267.6	9,284.2	4,562.0	-47.3	-4,561.7	0.64
13,682.0	87.9	267.9	9,287.5	4,656.9	-51.0	-4,656.6	0.38
13,777.0	87.5	268.5	9,291.3	4,751.8	-54.0	-4,751.5	0.76
13,801.0	87.3	268.8	9,292.4	4,775.8	-54.5	-4,775.5	1.50

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Field Name		Lease Name		Well No.
Black River		Mad River 13 State		3H
County		State		API No.
Eddy		New Mexico		30015438980000
Version	Version Tag			
1 Completed				
GL (ft)	KB (ft)	Section	Township/Block	Range/Survey
3,102.0	3,124.0	13	24S	27E
Operator		Well Status	Latitude	Longitude
Caza Oil and Gas, Inc		Completed	32.211285	-104.135825
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
330	FSL	175	FEL	Section
Prop Num			Spud Date	Comp. Date
39924			10/27/2016	1/2/2017
Additional Information				
OGRID	Well Type	Pool Name and Number		Lease No. and Bond No.
249099	Horizontal Oil	WC-015 G-06 S242713N; Wpper Wolfcamp		
Prepared By		Updated By	Last Updated	
Steve Morris		Steve Morris	3/15/2017 6:45 AM	

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	17.500	0	755	
10/31/2016	12.250	755	5,785	
11/9/2016	8.750	5,785	13,887	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
10/27/2016	Surface Casing	13.375	54.50	J55	0	755
11/2/2016	Intermediate Casing	9.625	40.00	J55	0	4,262
11/2/2016	Intermediate Casing	9.625	40.00	L80	4,262	5,785
11/11/2016	Production Casing	5.500	20.00	HCP	0	13,887

Casing Cement Summary

C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	10/27/2016	813	13.375	0	755	Circulated 295sx
	11/2/2016	295	9.625	0	1,950	Circulated 80bbls to surface
	11/2/2016	440	9.625	1,950	3,818	
	11/2/2016	350	9.625	3,818	5,785	
	11/11/2016	769	5.500	3,800	4,462	TOC - Temp log
	11/11/2016	1,626	5.500	4,462	12,362	
	11/11/2016	150	5.500	12,362	13,887	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
11/2/2016	DVT, D/O	8.750	0.000	3,818	0
11/11/2016	Mkr Jt	5.500	0.000	4,425	4,446
11/11/2016	Mkr Jt	5.500	0.000	8,749	8,770
11/11/2016	Mkr Jt	5.500	0.000	11,942	11,963

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	12/23/2016	Open	Wolfcamp	9,746	9,825	128
	12/23/2016	Open	Wolfcamp	9,871	9,950	128
	12/23/2016	Open	Wolfcamp	9,981	10,075	128
	12/23/2016	Open	Wolfcamp	10,121	10,200	128
	12/23/2016	Open	Wolfcamp	10,246	10,325	128
	12/23/2016	Open	Wolfcamp	10,371	10,450	128
	12/23/2016	Open	Wolfcamp	10,496	10,575	128
	12/23/2016	Open	Wolfcamp	10,621	10,700	128
	12/23/2016	Open	Wolfcamp	10,746	10,825	128
	12/22/2016	Open	Wolfcamp	10,871	10,950	128
	12/22/2016	Open	Wolfcamp	10,996	11,075	128
	12/22/2016	Open	Wolfcamp	11,121	11,200	128
	12/22/2016	Open	Wolfcamp	11,246	11,325	128
	12/22/2016	Open	Wolfcamp	11,371	11,450	128
	12/22/2016	Open	Wolfcamp	11,496	11,575	128
	12/22/2016	Open	Wolfcamp	11,621	11,700	128
	12/21/2016	Open	Wolfcamp	11,746	11,825	128
	12/21/2016	Open	Wolfcamp	11,871	11,950	128

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C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	12/21/2016	Open	Wolfcamp	11,996	12,075	128
	12/21/2016	Open	Wolfcamp	12,121	12,200	128
	12/21/2016	Open	Wolfcamp	12,246	12,325	128
	12/21/2016	Open	Wolfcamp	12,371	12,450	128
	12/21/2016	Open	Wolfcamp	12,496	12,575	128
	12/20/2016	Open	Wolfcamp	12,621	12,700	128
	12/20/2016	Open	Wolfcamp	12,746	12,825	128
	12/20/2016	Open	Wolfcamp	12,871	12,950	128
	12/20/2016	Open	Wolfcamp	12,996	13,075	128
	12/20/2016	Open	Wolfcamp	12,996	13,075	128
	12/20/2016	Open	Wolfcamp	13,121	13,200	128
	12/20/2016	Open	Wolfcamp	13,121	13,200	128
	12/20/2016	Open	Wolfcamp	13,246	13,325	128
	12/20/2016	Open	Wolfcamp	13,246	13,325	128
	12/19/2016	Open	Wolfcamp	13,396	13,475	128
	12/18/2016	Open	Wolfcamp	13,496	13,575	128
	12/18/2016	Open	Wolfcamp	13,887	13,887	

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	751	
Top of Salt	1,599	
Base of Salt	2,199	
Delaware	2,400	
Cherry Canyon	3,033	
Brushy Canyon	4,327	
Bone Spring	5,908	
Wolfcamp	9,115	

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Field Name		Lease Name		Well No.	County	State	API No.		
Black River		Mad River 13 State		3H	Eddy	New Mexico	30015438980000		
Version	Version Tag				Spud Date	Comp. Date	GL (ft)	KB (ft)	
1		Completed				10/27/2016	1/2/2017	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		330	FSL	175	FEL	Section
Operator			Well Status			Latitude		Longitude	Prop Num
Caza Oil and Gas, Inc			Completed			32.211285		-104.135825	39924
OGRID		Well Type		Pool Name and Number				Lease No. and Bond No.	
249099		Horizontal Oil		WC-015 G-06 S242713N; Wpper Wolfcamp					
Last Updated		Prepared By				Updated By			
03/15/2017 6:45 AM		Steve Morris				Steve Morris			
Additional Information									

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	17.500	0	755	
10/31/2016	12.250	755	5,785	
11/9/2016	8.750	5,785	13,887	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	Surface Casing	18	13.375	54.50	J55	0	755	
11/2/2016	Intermediate Casing	101	9.625	40.00	J55	0	4,262	
11/2/2016	Intermediate Casing	36	9.625	40.00	L80	4,262	5,785	
11/11/2016	Production Casing	324	5.500	20.00	HCP	0	13,887	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	10/27/2016	813	1.33	1,081	13.375	0	755	14.8ppg	Circulated 295sx
	11/2/2016	295	2.06	608	9.625	0	1,950	12.7ppg	Circulated 80bbbls to surface
	11/2/2016	440	1.33	585	9.625	1,950	3,818	14.8ppg	
	11/2/2016	350	1.33	466	9.625	3,818	5,785		
	11/11/2016	769	3.21	2,468	5.500	3,800	4,462	11ppg 50/50 Poz H	TOC - Temp log
	11/11/2016	1,626	1.23	2,000	5.500	4,462	12,362	14.4ppg 50/50 Poz H	
	11/11/2016	150	2.56	384	5.500	12,362	13,887	15ppg Class H	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
11/2/2016	DV tool (drilled out)	8.750	0.000	3,818	0		
11/11/2016	Marker Joint	5.500	0.000	4,425	4,446		
11/11/2016	Marker Joint	5.500	0.000	8,749	8,770		
11/11/2016	Marker Joint	5.500	0.000	11,942	11,963		

Perforation Summary

C	Date	Perf. Status	Formation	Comments
	12/18/2016	Open	Wolfcamp	Pumped 30,000# 40/70 White, 285,280# 20/40 White, and 64,580# 20/40 CRC. AR-71bpm, MaxR-74bpm, AP-6128#, MaxP-7458#. ISIP-3561#.
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,887	13,887		
	Phasing (deg)	Interval Comments		
C	Date	Perf. Status	Formation	Comments
	12/18/2016	Open	Wolfcamp	Pumped 35,000# 40/70 White, 270,280# 20/40 White, and 24,380# 20/40 CRC. AR-69bpm, MaxR-77bpm, AP-6747#, MaxP-9022#. ISIP-4058#.
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,571	13,575	8	32
	13,546	13,550	8	32
	13,521	13,525	8	32
	13,496	13,500	8	32
	Phasing (deg)	Interval Comments		
C	Date	Perf. Status	Formation	Comments
	12/19/2016	Open	Wolfcamp	Pumped 15,000# 40/70 White, 245,280# 20/40 White, and 35,520# 20/40 CRC. AR-70bpm, MaxR-76bpm, AP-6689#, MaxP-7228#. ISIP-2926#.
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,471	13,475	8	32
	13,446	13,450	8	32
	13,421	13,425	8	32
	13,396	13,400	8	32
	Phasing (deg)	Interval Comments		
C	Date	Perf. Status	Formation	Comments
	12/20/2016	Open	Wolfcamp	4397 bbbls comprised of 81 bbbls of 15% HCL, 17 bbbls Rhino NSF, 322 bbbls Liberty FR, 190 bbbls treated water, and 3283 bbbls 16# Justice. Pumped 25,000# 40/70 White, 235,280# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6783#, MaxP-7351#. I
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	Phasing (deg)	Interval Comments		

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,321	13,325	8	32	60	
	13,296	13,300	8	32	60	
	13,271	13,275	8	32	60	
	13,246	13,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4090 bbls comprised of 36 bbls of 15% HCL, 27 bbls Rhino NSF, 179 bbls Liberty FR, 239 bbls treated water, and 3161 bbls 16# Justice. Pumped 30,000# 40/70 White, 180,400# 20/40 White, and 34,800# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6757#, MaxP-7537#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,196	13,200	8	32	60	
	13,171	13,175	8	32	60	
	13,146	13,150	8	32	60	
	13,121	13,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4055 bbls comprised of 49 bbls of 15% HCL, 27 bbls Rhino NSF, 173 bbls Liberty FR, 221 bbls treated water, and 3167 bbls 16# Justice. Pumped 45,000# 40/70 White, 200,060# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6826#, MaxP-7674#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,071	13,075	8	32	60	
	13,046	13,050	8	32	60	
	13,021	13,025	8	32	60	
	12,996	13,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4053 bbls comprised of 35 bbls of 15% HCL, 11 bbls Rhino NSF, 427 bbls Liberty FR, 201 bbls treated water, and 3274 bbls 16# Justice. Pumped 29,220# 40/70 White, 229,520# 20/40 White, and 30,100# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6956#, MaxP-7608#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,821	12,825	8	32	60	
	12,796	12,800	8	32	60	
	12,771	12,775	8	32	60	
	12,746	12,750	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4074 bbls comprised of 38 bbls of 15% HCL, 15 bbls Rhino NSF, 440 bbls Liberty FR, 205 bbls treated water, and 3258 bbls 16# Justice. Pumped 31,000# 40/70 White, 229,780# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6643#, MaxP-7292#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,696	12,700	8	32	60	
	12,671	12,675	8	32	60	
	12,646	12,650	8	32	60	
	12,621	12,625	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4159 bbls comprised of 95 bbls of 15% HCL, 18 bbls Rhino NSF, 404 bbls Liberty FR, 191 bbls treated water, and 3337 bbls 16# Justice. Pumped 28,140# 40/70 White, 229,720# 20/40 White, and 33,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6438#, MaxP-7564#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,571	12,575	8	32	60	
	12,546	12,550	8	32	60	
	12,521	12,525	8	32	60	
	12,496	12,500	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4192 bbls comprised of 87 bbls of 15% HCL, 5 bbls Rhino NSF, 378 bbls Liberty FR, 190 bbls treated water, and 3376 bbls 16# Justice. Pumped 31,960# 40/70 White, 225,100# 20/40 White, and 31,780# 20/40 CRC. AR-72bpm, MaxR-76bpm, AP-6548#, MaxP-8214#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,446	12,450	8	32	60	
	12,421	12,425	8	32	60	
	12,396	12,400	8	32	60	
	12,371	12,375	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4060 bbls comprised of 20 bbls of 15% HCL, 27 bbls Rhino NSF, 392 bbls Liberty FR, 187 bbls treated water, and 3306 bbls 16# Justice. Pumped 30,000# 40/70 White, 235,180# 20/40 White, and 26,060# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6652#, MaxP-7943#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,321	12,325	8	32	60	
	12,296	12,300	8	32	60	
	12,271	12,275	8	32	60	

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,246	12,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4147 bbls comprised of 39 bbls of 15% HCL, 35 bbls Rhino NSF, 392 bbls Liberty FR, 178 bbls treated water, and 3314 bbls 16# Justice. Pumped 45,000# 40/70 White, 208,200# 20/40 White, and 28,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6325#, MaxP-8029#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,196	12,200	8	32	60	
	12,171	12,175	8	32	60	
	12,146	12,150	8	32	60	
	12,121	12,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4397 bbls comprised of 81 bbls of 15% HCL, 17 bbls Rhino NSF, 322 bbls Liberty FR, 190 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,000# 40/70 White, 235,280# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6783#, MaxP-7351#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,321	13,325	8	32	60	
	13,296	13,300	8	32	60	
	13,271	13,275	8	32	60	
	13,246	13,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4090 bbls comprised of 36 bbls of 15% HCL, 27 bbls Rhino NSF, 179 bbls Liberty FR, 239 bbls treated water, and 3161 bbls 16# Justice. Pumped 30,000# 40/70 White, 180,400# 20/40 White, and 34,800# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6757#, MaxP-7537#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,196	13,200	8	32	60	
	13,171	13,175	8	32	60	
	13,146	13,150	8	32	60	
	13,121	13,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4055 bbls comprised of 49 bbls of 15% HCL, 27 bbls Rhino NSF, 173 bbls Liberty FR, 221 bbls treated water, and 3167 bbls 16# Justice. Pumped 45,000# 40/70 White, 200,060# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6826#, MaxP-7674#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,071	13,075	8	32	60	
	13,046	13,050	8	32	60	
	13,021	13,025	8	32	60	
	12,996	13,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4218 bbls comprised of 41 bbls of 15% HCL, 21 bbls Rhino NSF, 497 bbls Liberty FR, 213 bbls treated water, and 3335 bbls 16# Justice. Pumped 28,980# 40/70 White, 230,060# 20/40 White, and 34,080# 20/40 CRC. AR-73bpm, MaxR-75bpm, AP-6792#, MaxP-7246#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,946	12,950	8	32	60	
	12,921	12,925	8	32	60	
	12,896	12,900	8	32	60	
	12,871	12,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		2892 bbls comprised of 36 bbls of 15% HCL, 34 bbls Rhino NSF, 387 bbls Liberty FR, 166 bbls treated water, and 2182 bbls 16# Justice. Pumped 33,000# 40/70 White, 52,200# 20/40 White, and 0# 20/40 CRC. AR-58bpm, MaxR-80bpm, AP-5475#, MaxP-8104#. ISIP-35	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,071	12,075	8	32	60	
	12,046	12,050	8	32	60	
	12,021	12,025	8	32	60	
	11,996	12,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4025 bbls comprised of 36 bbls of 15% HCL, 14 bbls Rhino NSF, 417 bbls Liberty FR, 153 bbls treated water, and 3295 bbls 16# Justice. Pumped 29,020# 40/70 White, 225,040# 20/40 White, and 28,580# 20/40 CRC. AR-72bpm, MaxR-80bpm, AP-6298#, MaxP-7023#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,946	11,950	8	32	60	
	11,921	11,925	8	32	60	
	11,896	11,900	8	32	60	
	11,871	11,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	

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C	Date	Perf. Status	Formation	Comments		
	12/21/2016	Open	Wolfcamp	4114 bbls comprised of 36 bbls of 15% HCL, 17 bbls Rhino NSF, 407 bbls Liberty FR, 157 bbls treated water, and 3362 bbls 16# Justice. Pumped 28,000# 40/70 White, 235,360# 20/40 White, and 25,000# 20/40 CRC. AR-73bpm, MaxR-78bpm, AP-6400#, MaxP-8411#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,796	11,800	8	32	60	
	11,771	11,775	8	32	60	
	11,746	11,750	8	32	60	
	11,821	11,825	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4698 bbls comprised of 33 bbls of 15% HCL, 23 bbls Rhino NSF, 391 bbls Liberty FR, 145 bbls treated water, and 3918 bbls 16# Justice. Pumped 45,180# 40/70 White, 240,280# 20/40 White, and 22,720# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6228#, MaxP-6064#. IS		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,696	11,700	8	32	60	
	11,671	11,675	8	32	60	
	11,646	11,650	8	32	60	
	11,621	11,625	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	5087 bbls comprised of 39 bbls of 15% HCL, 12 bbls Rhino NSF, 745 bbls Liberty FR, 157 bbls treated water, and 4033 bbls 16# Justice. Pumped 30,060# 40/70 White, 223,260# 20/40 White, and 25,000# 20/40 CRC. AR-72bpm, MaxR-76bpm, AP-6548#, MaxP-8214#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,571	11,575	8	32	60	
	11,546	11,550	8	32	60	
	11,521	11,525	8	32	60	
	11,496	11,500	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4122 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 404 bbls Liberty FR, 133 bbls treated water, and 3375 bbls 16# Justice. Pumped 29,960# 40/70 White, 222,160# 20/40 White, and 40,000# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6623#, MaxP-7539#. I		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,446	11,450	8	32	60	
	11,421	11,425	8	32	60	
	11,396	11,400	8	32	60	
	11,371	11,375	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4008 bbls comprised of 36 bbls of 15% HCL, 15 bbls Rhino NSF, 391 bbls Liberty FR, 116 bbls treated water, and 3337 bbls 16# Justice. Pumped 30,000# 40/70 White, 230,020# 20/40 White, and 30,380# 20/40 CRC. AR-74bpm, MaxR-80bpm, AP-6504#, MaxP-8005#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,321	11,325	8	32	60	
	11,296	11,300	8	32	60	
	11,271	11,275	8	32	60	
	11,246	11,250	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	3997 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 398 bbls Liberty FR, 120 bbls treated water, and 3304 bbls 16# Justice. Pumped 29,180# 40/70 White, 221,320# 20/40 White, and 35,320# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6503#, MaxP-7721#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,196	11,200	8	32	60	
	11,171	11,175	8	32	60	
	11,146	11,150	8	32	60	
	11,121	11,125	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4091 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 381 bbls Liberty FR, 110 bbls treated water, and 3413 bbls 16# Justice. Pumped 25,960# 40/70 White, 230,040# 20/40 White, and 25,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6427#, MaxP-7591#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,071	11,075	8	32	60	
	11,046	11,050	8	32	60	
	11,021	11,025	8	32	60	
	10,996	11,000	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	3937 bbls comprised of 36 bbls of 15% HCL, 15 bbls Rhino NSF, 406 bbls Liberty FR, 103 bbls treated water, and 3271 bbls 16# Justice. Pumped 30,000# 40/70 White, 245,000# 20/40 White, and 30,520# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6348#, MaxP-7983#.		

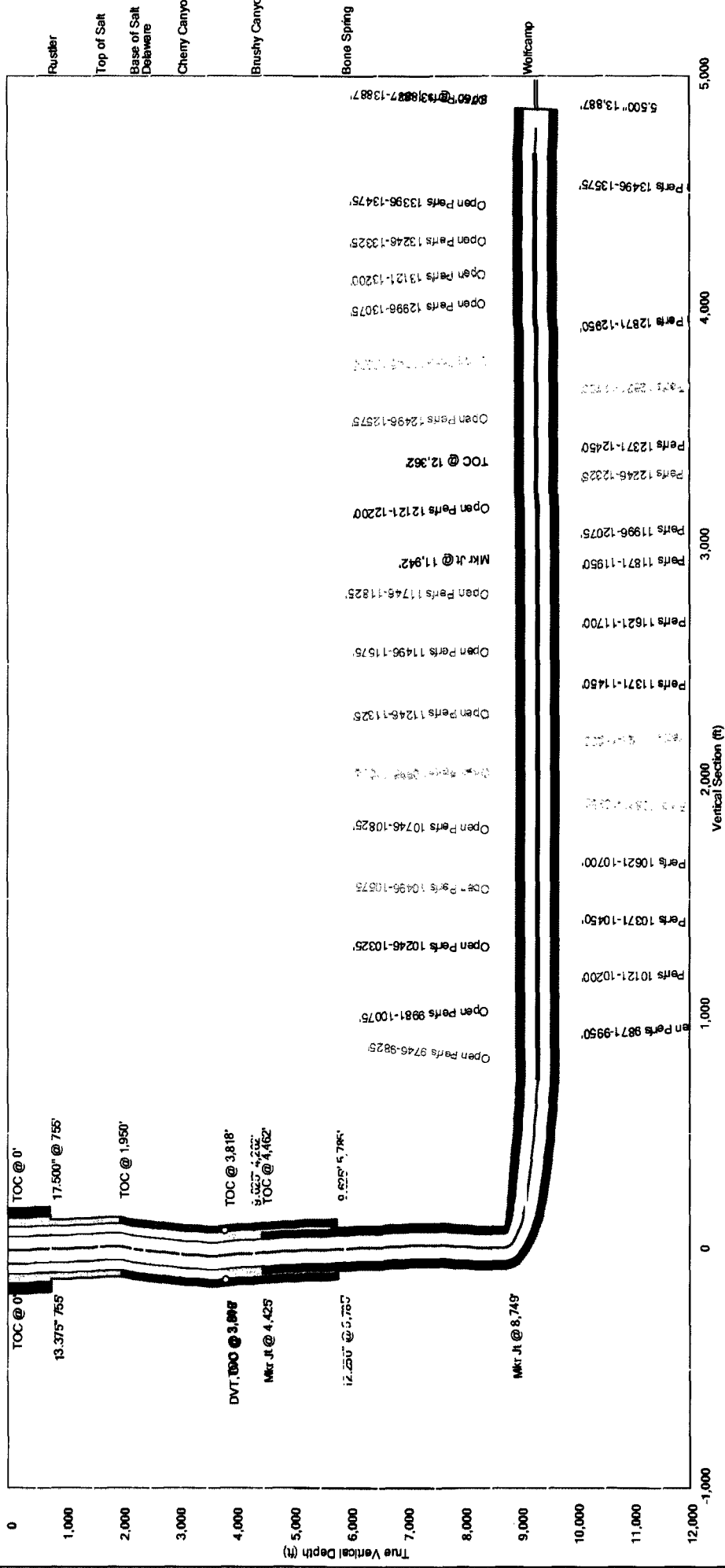
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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,946	10,950	8	32	60	
	10,921	10,925	8	32	60	
	10,896	10,900	8	32	60	
	10,871	10,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3936 bbls comprised of 36 bbls of 15% HCL, 12 bbls Rhino NSF, 364 bbls Liberty FR, 103 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,060# 40/70 White, 235,220# 20/40 White, and 20,600# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6255#, MaxP-7665#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,821	10,825	8	32	60	
	10,796	10,800	8	32	60	
	10,771	10,775	8	32	60	
	10,746	10,750	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3949 bbls comprised of 36 bbls of 15% HCL, 16 bbls Rhino NSF, 378 bbls Liberty FR, 93 bbls treated water, and 3274 bbls 16# Justice. Pumped 28,080# 40/70 White, 235,160# 20/40 White, and 35,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6399#, MaxP-7822#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,696	10,700	8	32	60	
	10,671	10,675	8	32	60	
	10,646	10,650	8	32	60	
	10,621	10,625	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3937 bbls comprised of 36 bbls of 15% HCL, 10 bbls Rhino NSF, 364 bbls Liberty FR, 85 bbls treated water, and 3315 bbls 16# Justice. Pumped 29,000# 40/70 White, 229,860# 20/40 White, and 30,820# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6142#, MaxP-7726#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,571	10,575	8	32	60	
	10,546	10,550	8	32	60	
	10,521	10,525	8	32	60	
	10,496	10,500	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3841 bbls comprised of 34 bbls of 15% HCL, 12 bbls Rhino NSF, 380 bbls Liberty FR, 74 bbls treated water, and 3206 bbls 16# Justice. Pumped 24,060# 40/70 White, 234,810# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6451#, MaxP-7665#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,446	10,450	8	32	60	
	10,421	10,425	8	32	60	
	10,396	10,400	8	32	60	
	10,371	10,375	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3819 bbls comprised of 36 bbls of 15% HCL, 12 bbls Rhino NSF, 413 bbls Liberty FR, 68 bbls treated water, and 3187 bbls 16# Justice. Pumped 29,000# 40/70 White, 229,940# 20/40 White, and 29,700# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6364#, MaxP-7651#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,321	10,325	8	32	60	
	10,296	10,300	8	32	60	
	10,271	10,275	8	32	60	
	10,246	10,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3873 bbls comprised of 36 bbls of 15% HCL, 13 bbls Rhino NSF, 401 bbls Liberty FR, 63 bbls treated water, and 3251 bbls 16# Justice. Pumped 25,060# 40/70 White, 230,500# 20/40 White, and 29,580# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6558#, MaxP-7924#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,196	10,200	8	32	60	
	10,171	10,175	8	32	60	
	10,146	10,150	8	32	60	
	10,121	10,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3833 bbls comprised of 36 bbls of 15% HCL, 13 bbls Rhino NSF, 406 bbls Liberty FR, 63 bbls treated water, and 3216 bbls 16# Justice. Pumped 25,000# 40/70 White, 230,320# 20/40 White, and 28,580# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6823#, MaxP-8453#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,071	10,075	8	32	60	
	10,041	10,045	8	32	60	

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,011	10,015	8	32	60	
	9,981	9,985	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3782 bbls comprised of 36 bbls of 15% HCL, 11 bbls Rhino NSF, 406 bbls Liberty FR, 53 bbls treated water, and 3180 bbls 16# Justice. Pumped 23,000# 40/70 White, 230,260# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6707#, MaxP-7763#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	9,946	9,950	8	32	60	
	9,921	9,925	8	32	60	
	9,896	9,900	8	32	60	
	9,871	9,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		4084 bbls comprised of 36 bbls of 15% HCL, 48 bbls Rhino NSF, 349 bbls Liberty FR, 57 bbls treated water, and 3409 bbls 16# Justice. Pumped 22,000# 40/70 White, 235,000# 20/40 White, and 35,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6337#, MaxP-7598#. ISIP	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	9,821	9,825	8	32	60	
	9,796	9,800	8	32	60	
	9,771	9,775	8	32	60	
	9,746	9,750	8	32	60	
Formation Top Summary						
Formation Name		Top(TVD ft)	Comments			
Rustler		751				
Top of Salt		1,599				
Base of Salt		2,199				
Delaware		2,400				
Cherry Canyon		3,033				
Brushy Canyon		4,327				
Bone Spring		5,908				
Wolfcamp		9,115				

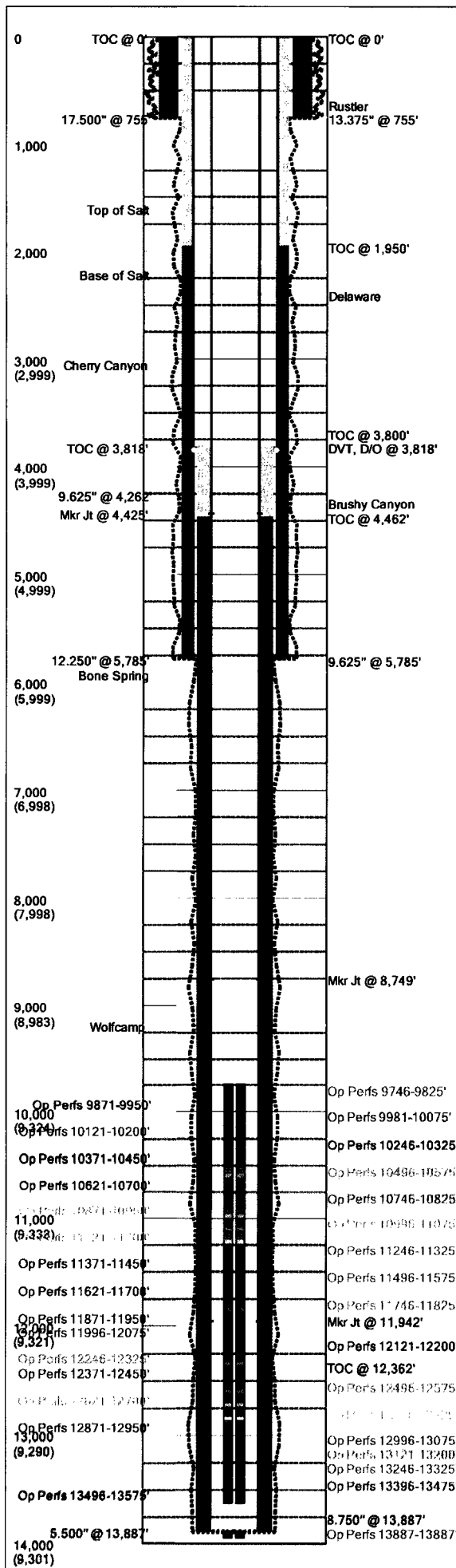
Field Name	Lease Name	Well No.	County	State	API No.	Version	Version Tag	Spud Date	Comp. Date	G.L. (ft)	K.B. (ft)
Black River	Mad River 13 State	3H	Eddy	New Mexico	30015438980000	1	Completed	10/27/2016	1/2/2017	3,102.0	3,124.0
Sec.	Township/Block	Dist. N/S (ft)	Dist. E/W (ft)	EW Line	Footage From	Latitude	Longitude	Well Status	PropNum	Operator	
13	24S	330 FSL	175 FEL			32.211285	-104.135825	Completed	39924	Caza Oil and Gas, Inc	
Last Updated	Prepared By	Updated By									
3/15/2017 6:45:43 AM	Steve Morris	Steve Morris									



Field Name		Lease Name	Well No.	API No.	Version	Version Tag	
Black River		Mad River 13 State	3H	30015438980000	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	
-54.53241	-4775.45	32.211285	-104.135825	Caza Oil and Gas, Inc		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
219.0	0.4	270.8	219.0	0.8	0.0	-0.8	0.18
347.0	0.7	195.0	347.0	1.4	-0.7	-1.4	0.56
516.0	1.2	203.1	516.0	2.4	-3.4	-2.4	0.31
691.0	0.7	192.4	690.9	3.4	-6.1	-3.3	0.30
868.0	1.1	206.1	867.9	4.4	-8.7	-4.3	0.26
1,052.0	1.5	202.5	1,051.9	6.1	-12.5	-6.0	0.22
1,239.0	1.2	211.5	1,238.8	8.1	-16.4	-8.0	0.20
1,430.0	1.1	254.8	1,429.8	11.0	-18.6	-10.8	0.45
1,621.0	0.9	307.3	1,620.8	13.9	-18.2	-13.7	0.47
1,811.0	0.6	327.6	1,810.7	15.6	-16.4	-15.5	0.21
2,002.0	1.5	66.4	2,001.7	13.9	-14.6	-13.7	0.89
2,192.0	3.2	97.8	2,191.6	6.3	-14.3	-6.2	1.09
2,382.0	2.2	57.3	2,381.4	-2.0	-13.1	2.2	1.10
2,571.0	1.8	50.2	2,570.3	-7.4	-9.2	7.5	0.25
2,760.0	1.8	46.5	2,759.2	-11.9	-5.3	11.9	0.06
2,949.0	1.6	45.9	2,948.1	-16.0	-1.4	16.0	0.11
3,140.0	1.5	42.4	3,139.0	-19.6	2.3	19.6	0.07
3,330.0	1.2	33.3	3,329.0	-22.4	5.8	22.3	0.19
3,520.0	1.2	31.9	3,518.9	-24.6	9.2	24.5	0.02
3,710.0	1.0	240.4	3,708.9	-24.2	10.0	24.1	1.12
3,900.0	1.1	240.7	3,898.9	-21.2	8.3	21.1	0.05
4,089.0	1.0	232.6	4,087.8	-18.2	6.4	18.2	0.09
4,279.0	1.0	253.4	4,277.8	-15.3	5.0	15.3	0.19
4,469.0	0.8	224.9	4,467.8	-12.8	3.6	12.7	0.25
4,659.0	0.9	252.2	4,657.8	-10.4	2.2	10.4	0.22
4,848.0	0.9	248.7	4,846.7	-7.6	1.2	7.6	0.03
5,038.0	0.7	242.4	5,036.7	-5.2	0.1	5.2	0.11
5,227.0	0.6	227.3	5,225.7	-3.4	-1.1	3.4	0.10
5,415.0	0.6	227.7	5,413.7	-1.9	-2.5	2.0	0.00
5,605.0	0.7	236.4	5,603.7	-0.2	-3.8	0.3	0.07
5,789.0	1.5	223.9	5,787.7	2.4	-6.1	-2.3	0.45
5,978.0	1.2	261.2	5,976.6	6.1	-8.2	-6.0	0.48
6,166.0	1.1	344.8	6,164.6	8.5	-6.8	-8.4	0.82
6,355.0	1.4	192.4	6,353.6	9.5	-7.3	-9.4	1.29
6,544.0	1.0	197.2	6,542.5	10.5	-11.1	-10.4	0.22
6,732.0	1.1	256.4	6,730.5	12.8	-13.1	-12.6	0.55
6,921.0	1.3	263.9	6,919.4	16.7	-13.7	-16.5	0.13
7,110.0	0.4	255.9	7,108.4	19.5	-14.1	-19.3	0.48
7,300.0	0.4	26.8	7,298.4	19.8	-13.7	-19.6	0.38
7,488.0	1.5	168.6	7,486.4	19.0	-15.5	-18.9	0.97
7,677.0	0.6	85.6	7,675.4	17.6	-17.9	-17.4	0.82
7,866.0	0.3	97.9	7,864.4	16.1	-17.9	-15.9	0.17
8,055.0	0.5	117.2	8,053.4	14.9	-18.3	-14.7	0.13
8,245.0	1.6	92.8	8,243.3	11.5	-18.8	-11.3	0.61
8,435.0	1.0	57.6	8,433.3	7.5	-18.1	-7.2	0.51
8,623.0	0.7	303.3	8,621.3	7.0	-16.6	-6.8	0.76
8,811.0	0.9	300.4	8,679.3	7.7	-16.1	-7.5	0.35
8,740.0	1.3	267.3	8,738.3	8.8	-15.9	-8.6	1.25
8,787.0	6.8	257.4	8,785.1	12.0	-16.6	-11.8	11.75
8,834.0	12.3	257.8	8,831.5	19.7	-18.2	-19.4	11.70
8,881.0	19.9	256.8	8,876.6	32.4	-21.1	-32.1	16.18
8,929.0	24.5	256.6	8,921.0	50.1	-25.3	-49.8	9.58
8,976.0	30.4	257.4	8,962.7	71.2	-30.1	-70.9	12.58
9,024.0	36.0	257.9	9,002.8	97.0	-35.8	-96.6	11.68
9,071.0	42.1	259.9	9,039.3	126.1	-41.4	-125.6	13.25

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
9,119.0	47.0	261.1	9,073.5	159.3	-47.0	-158.8	10.36
9,166.0	53.2	263.5	9,103.7	195.1	-51.8	-194.5	13.76
9,214.0	58.1	266.2	9,130.7	234.6	-55.3	-234.0	11.21
9,261.0	61.6	267.7	9,154.3	275.2	-57.4	-274.6	7.94
9,308.0	64.6	268.5	9,175.6	317.1	-58.8	-316.4	6.56
9,355.0	66.5	270.4	9,195.1	359.9	-59.2	-359.2	5.47
9,403.0	66.4	270.8	9,214.2	403.9	-58.8	-403.2	0.79
9,450.0	67.0	270.7	9,232.8	447.0	-58.2	-446.4	1.29
9,497.0	69.6	271.8	9,250.2	490.7	-57.2	-490.0	5.94
9,544.0	71.2	271.5	9,266.0	534.9	-56.0	-534.3	3.46
9,592.0	71.4	271.5	9,281.4	580.3	-54.8	-579.7	0.42
9,639.0	72.5	272.8	9,295.9	625.0	-53.1	-624.4	3.52
9,686.0	75.4	273.9	9,308.9	670.0	-50.5	-669.5	6.57
9,733.0	78.1	273.9	9,319.7	715.6	-47.4	-715.1	5.74
9,780.0	83.0	274.4	9,327.4	761.8	-44.0	-761.3	10.48
9,875.0	92.4	277.8	9,331.2	855.9	-33.9	-855.6	10.52
9,973.0	93.8	277.5	9,325.9	952.8	-20.9	-952.6	1.46
10,067.0	92.3	277.0	9,320.9	1,045.7	-9.0	-1,045.7	1.68
10,162.0	91.2	276.5	9,318.0	1,139.9	2.1	-1,140.0	1.27
10,257.0	88.9	274.3	9,317.9	1,234.4	11.1	-1,234.6	3.35
10,352.0	89.9	271.5	9,318.9	1,329.2	15.9	-1,329.4	3.13
10,447.0	88.7	269.4	9,320.1	1,424.1	16.6	-1,424.4	2.55
10,638.0	89.3	269.4	9,323.4	1,615.1	14.6	-1,615.4	0.31
10,733.0	88.3	267.4	9,325.4	1,710.1	12.0	-1,710.3	2.35
10,923.0	87.9	268.1	9,331.7	1,899.9	4.5	-1,900.1	0.42
11,018.0	90.3	270.4	9,333.2	1,994.9	3.3	-1,995.0	3.50
11,114.0	91.3	271.2	9,331.9	2,090.8	4.6	-2,091.0	1.33
11,209.0	91.3	270.9	9,329.7	2,185.7	6.3	-2,186.0	0.32
11,304.0	91.1	270.3	9,327.7	2,280.7	7.3	-2,280.9	0.67
11,399.0	89.6	268.7	9,327.1	2,375.7	6.5	-2,375.9	2.31
11,495.0	89.5	268.7	9,327.9	2,471.7	4.3	-2,471.9	0.10
11,590.0	89.6	269.2	9,328.6	2,566.7	2.6	-2,566.9	0.54
11,685.0	91.3	269.9	9,327.9	2,661.7	1.8	-2,661.9	1.94
11,780.0	89.7	266.6	9,327.1	2,756.6	-1.1	-2,756.8	3.86
11,875.0	92.0	267.3	9,325.7	2,851.5	-6.1	-2,851.7	2.53
11,970.0	92.2	267.2	9,322.2	2,946.4	-10.7	-2,946.5	0.24
12,065.0	92.4	268.0	9,318.4	3,041.3	-14.6	-3,041.3	0.87
12,160.0	92.0	268.4	9,314.7	3,136.2	-17.6	-3,136.2	0.60
12,256.0	91.6	268.7	9,311.7	3,232.1	-20.1	-3,232.1	0.52
12,351.0	91.3	268.3	9,309.3	3,327.1	-22.5	-3,327.1	0.53
12,446.0	91.3	268.8	9,307.1	3,422.1	-24.9	-3,422.0	0.53
12,541.0	91.0	269.4	9,305.2	3,517.0	-26.4	-3,517.0	0.71
12,635.0	90.7	269.9	9,303.8	3,611.0	-27.0	-3,611.0	0.62
12,731.0	91.3	269.7	9,302.2	3,707.0	-27.3	-3,706.9	0.66
12,826.0	92.3	268.9	9,299.2	3,802.0	-28.5	-3,801.9	1.35
12,921.0	93.5	269.1	9,294.4	3,896.8	-30.2	-3,896.7	1.28
13,016.0	93.5	269.9	9,288.6	3,991.7	-31.0	-3,991.6	0.84
13,081.0	92.7	269.8	9,285.1	4,056.6	-31.2	-4,056.5	1.24
13,207.0	93.0	270.7	9,278.8	4,182.4	-30.6	-4,182.3	0.75
13,302.0	89.8	267.0	9,276.5	4,277.3	-32.5	-4,277.2	5.15
13,397.0	88.4	266.8	9,278.0	4,372.2	-37.7	-4,372.1	1.49
13,492.0	88.0	267.0	9,280.9	4,467.1	-42.8	-4,466.9	0.47
13,587.0	88.1	267.6	9,284.2	4,562.0	-47.3	-4,561.7	0.64
13,682.0	87.9	267.9	9,287.5	4,656.9	-51.0	-4,656.6	0.38
13,777.0	87.5	268.5	9,291.3	4,751.8	-54.0	-4,751.5	0.76
13,801.0	87.3	268.8	9,292.4	4,775.8	-54.5	-4,775.5	1.50



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Field Name	Lease Name	Well No.
Black River	Mad River 13 State	3H
County	State	API No.
Eddy	New Mexico	30015438980000
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 Oil and Gas, Inc	Completed	32.211285
Longitude		
-104.135825		
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)
330	FSL	175
E/W Line	Footage From	
FEL	Section	
Prop Num	Spud Date	Comp. Date
39924	10/27/2016	1/2/2017
Additional Information		
OGRID	Well Type	Pool Name and Number
249099	Horizontal Oil	WC-015 G-06
		S242713N; Wpper Wolfcamp
Lease No. and Bond No.		
Prepared By	Updated By	Last Updated
Steve Morris	Steve Morris	3/15/2017 6:45 AM

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	17.500	0	755	
10/31/2016	12.250	755	5,785	
11/9/2016	8.750	5,785	13,887	

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
10/27/2016	Surface Casing	13.375	54.50	J55	0	755
11/2/2016	Intermediate Casing	9.625	40.00	J55	0	4,262
11/2/2016	Intermediate Casing	9.625	40.00	L80	4,262	5,785
11/11/2016	Production Casing	5.500	20.00	HCP	0	13,887

C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	10/27/2016	813	13.375	0	755	Circulated 295sx
	11/2/2016	295	9.625	0	1,950	Circulated 80bbis to surface
	11/2/2016	440	9.625	1,950	3,818	
	11/2/2016	350	9.625	3,818	5,785	
	11/11/2016	769	5.500	3,800	4,462	TOC - Temp log
	11/11/2016	1,626	5.500	4,462	12,362	
	11/11/2016	150	5.500	12,362	13,887	

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
11/2/2016	DVT, D/O	8.750	0.000	3,818	0
11/11/2016	Mkr Jt	5.500	0.000	4,425	4,446
11/11/2016	Mkr Jt	5.500	0.000	8,749	8,770
11/11/2016	Mkr Jt	5.500	0.000	11,942	11,963

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	12/23/2016	Open	Wolfcamp	9,746	9,825	128
	12/23/2016	Open	Wolfcamp	9,871	9,950	128
	12/23/2016	Open	Wolfcamp	9,981	10,075	128
	12/23/2016	Open	Wolfcamp	10,121	10,200	128
	12/23/2016	Open	Wolfcamp	10,246	10,325	128
	12/23/2016	Open	Wolfcamp	10,371	10,450	128
	12/23/2016	Open	Wolfcamp	10,496	10,575	128
	12/23/2016	Open	Wolfcamp	10,621	10,700	128
	12/23/2016	Open	Wolfcamp	10,746	10,825	128
	12/22/2016	Open	Wolfcamp	10,871	10,950	128
	12/22/2016	Open	Wolfcamp	10,996	11,075	128
	12/22/2016	Open	Wolfcamp	11,121	11,200	128
	12/22/2016	Open	Wolfcamp	11,246	11,325	128
	12/22/2016	Open	Wolfcamp	11,371	11,450	128
	12/22/2016	Open	Wolfcamp	11,496	11,575	128
	12/22/2016	Open	Wolfcamp	11,621	11,700	128
	12/21/2016	Open	Wolfcamp	11,746	11,825	128
	12/21/2016	Open	Wolfcamp	11,871	11,950	128

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C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	12/21/2016	Open	Wolfcamp	11,996	12,075	128
	12/21/2016	Open	Wolfcamp	12,121	12,200	128
	12/21/2016	Open	Wolfcamp	12,246	12,325	128
	12/21/2016	Open	Wolfcamp	12,371	12,450	128
	12/21/2016	Open	Wolfcamp	12,496	12,575	128
	12/20/2016	Open	Wolfcamp	12,621	12,700	128
	12/20/2016	Open	Wolfcamp	12,746	12,825	128
	12/20/2016	Open	Wolfcamp	12,871	12,950	128
	12/20/2016	Open	Wolfcamp	12,996	13,075	128
	12/20/2016	Open	Wolfcamp	12,996	13,075	128
	12/20/2016	Open	Wolfcamp	13,121	13,200	128
	12/20/2016	Open	Wolfcamp	13,121	13,200	128
	12/20/2016	Open	Wolfcamp	13,246	13,325	128
	12/20/2016	Open	Wolfcamp	13,246	13,325	128
	12/19/2016	Open	Wolfcamp	13,396	13,475	128
	12/18/2016	Open	Wolfcamp	13,496	13,575	128
	12/18/2016	Open	Wolfcamp	13,887	13,887	

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	751	
Top of Salt	1,599	
Base of Salt	2,199	
Delaware	2,400	
Cherry Canyon	3,033	
Brushy Canyon	4,327	
Bone Spring	5,908	
Wolfcamp	9,115	

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Field Name		Lease Name		Well No.	County	State	API No.	
Black River		Mad River 13 State		3H	Eddy	New Mexico	30015438980000	
Version	Version Tag				Spud Date	Comp. Date	GL (ft)	KB (ft)
	1 Completed				10/27/2016	1/2/2017	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	330	FSL	175	FEL	Section
Operator			Well Status		Latitude		Longitude	Prop Num
Caza Oil and Gas, Inc			Completed		32.211285		-104.135825	39924
OGRID		Well Type		Pool Name and Number			Lease No. and Bond No.	
249099		Horizontal Oil		WC-015 G-06 S242713N; Wpper Wolfcamp				
Last Updated		Prepared By			Updated By			
03/15/2017 6:45 AM		Steve Morris			Steve Morris			
Additional Information								

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	17.500	0	755	
10/31/2016	12.250	755	5,785	
11/9/2016	8.750	5,785	13,887	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
10/27/2016	Surface Casing	18	13.375	54.50	J55	0	755	
11/2/2016	Intermediate Casing	101	9.625	40.00	J55	0	4,262	
11/2/2016	Intermediate Casing	36	9.625	40.00	L80	4,262	5,785	
11/11/2016	Production Casing	324	5.500	20.00	HCP	0	13,887	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	10/27/2016	813	1.33	1,081	13.375	0	755	14.8ppg	Circulated 295sx
	11/2/2016	295	2.06	608	9.625	0	1,950	12.7ppg	Circulated 80bbbls to surface
	11/2/2016	440	1.33	585	9.625	1,950	3,818	14.8ppg	
	11/2/2016	350	1.33	466	9.625	3,818	5,785		
	11/11/2016	769	3.21	2,468	5.500	3,800	4,462	11ppg 50/50 Poz H	TOC - Temp log
	11/11/2016	1,626	1.23	2,000	5.500	4,462	12,362	14.4ppg 50/50 Poz H	
	11/11/2016	150	2.56	384	5.500	12,362	13,887	15ppg Class H	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
11/2/2016	DV tool (drilled out)	8.750	0.000	3,818	0		
11/11/2016	Marker Joint	5.500	0.000	4,425	4,446		
11/11/2016	Marker Joint	5.500	0.000	8,749	8,770		
11/11/2016	Marker Joint	5.500	0.000	11,942	11,963		

Perforation Summary

C	Date	Perf. Status	Formation				Comments
	12/18/2016	Open	Wolfcamp				Pumped 30,000# 40/70 White, 285,280# 20/40 White, and 64,580# 20/40 CRC. AR-71bpm, MaxR-74bpm, AP-6128#, MaxP-7458#. ISIP-3561#.
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments	
	13,887	13,887					
C	Date	Perf. Status	Formation				Comments
	12/18/2016	Open	Wolfcamp				Pumped 35,000# 40/70 White, 270,280# 20/40 White, and 24,380# 20/40 CRC. AR-69bpm, MaxR-77bpm, AP-6747#, MaxP-9022#. ISIP-4058#
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments	
	13,571	13,575	8	32	60		
	13,546	13,550	8	32	60		
	13,521	13,525	8	32	60		
	13,496	13,500	8	32	60		
C	Date	Perf. Status	Formation				Comments
	12/19/2016	Open	Wolfcamp				Pumped 15,000# 40/70 White, 245,280# 20/40 White, and 35,520# 20/40 CRC. AR-70bpm, MaxR-76bpm, AP-6689#, MaxP-7228#. ISIP-2926#.
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments	
	13,471	13,475	8	32	60		
	13,446	13,450	8	32	60		
	13,421	13,425	8	32	60		
	13,396	13,400	8	32	60		
C	Date	Perf. Status	Formation				Comments
	12/20/2016	Open	Wolfcamp				4397 bbls comprised of 81 bbls of 15% HCL, 17 bbls Rhino NSF, 322 bbls Liberty FR, 190 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,000# 40/70 White, 235,280# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6783#, MaxP-7351#. I
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments	

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,321	13,325	8	32	60	
	13,296	13,300	8	32	60	
	13,271	13,275	8	32	60	
	13,246	13,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4090 bbls comprised of 36 bbls of 15% HCL, 27 bbls Rhino NSF, 179 bbls Liberty FR, 239 bbls treated water, and 3161 bbls 16# Justice. Pumped 30,000# 40/70 White, 180,400# 20/40 White, and 34,800# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6757#, MaxP-7537#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,196	13,200	8	32	60	
	13,171	13,175	8	32	60	
	13,146	13,150	8	32	60	
	13,121	13,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4055 bbls comprised of 49 bbls of 15% HCL, 27 bbls Rhino NSF, 173 bbls Liberty FR, 221 bbls treated water, and 3167 bbls 16# Justice. Pumped 45,000# 40/70 White, 200,060# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6826#, MaxP-7674#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,071	13,075	8	32	60	
	13,046	13,050	8	32	60	
	13,021	13,025	8	32	60	
	12,996	13,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4053 bbls comprised of 35 bbls of 15% HCL, 11 bbls Rhino NSF, 427 bbls Liberty FR, 201 bbls treated water, and 3274 bbls 16# Justice. Pumped 29,220# 40/70 White, 229,520# 20/40 White, and 30,100# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6956#, MaxP-7608#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,821	12,825	8	32	60	
	12,796	12,800	8	32	60	
	12,771	12,775	8	32	60	
	12,746	12,750	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4074 bbls comprised of 38 bbls of 15% HCL, 15 bbls Rhino NSF, 440 bbls Liberty FR, 205 bbls treated water, and 3258 bbls 16# Justice. Pumped 31,000# 40/70 White, 229,780# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6643#, MaxP-7292#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,696	12,700	8	32	60	
	12,671	12,675	8	32	60	
	12,646	12,650	8	32	60	
	12,621	12,625	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4159 bbls comprised of 95 bbls of 15% HCL, 18 bbls Rhino NSF, 404 bbls Liberty FR, 191 bbls treated water, and 3337 bbls 16# Justice. Pumped 28,140# 40/70 White, 229,720# 20/40 White, and 33,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6438#, MaxP-7564#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,571	12,575	8	32	60	
	12,546	12,550	8	32	60	
	12,521	12,525	8	32	60	
	12,496	12,500	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4192 bbls comprised of 87 bbls of 15% HCL, 5 bbls Rhino NSF, 378 bbls Liberty FR, 190 bbls treated water, and 3376 bbls 16# Justice. Pumped 31,960# 40/70 White, 225,100# 20/40 White, and 31,780# 20/40 CRC. AR-72bpm, MaxR-76bpm, AP-6548#, MaxP-8214#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,446	12,450	8	32	60	
	12,421	12,425	8	32	60	
	12,396	12,400	8	32	60	
	12,371	12,375	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4060 bbls comprised of 20 bbls of 15% HCL, 27 bbls Rhino NSF, 392 bbls Liberty FR, 187 bbls treated water, and 3306 bbls 16# Justice. Pumped 30,000# 40/70 White, 235,180# 20/40 White, and 26,060# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6652#, MaxP-7943#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,321	12,325	8	32	60	
	12,296	12,300	8	32	60	
	12,271	12,275	8	32	60	

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,246	12,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4147 bbls comprised of 39 bbls of 15% HCL, 35 bbls Rhino NSF, 392 bbls Liberty FR, 178 bbls treated water, and 3314 bbls 16# Justice. Pumped 45,000# 40/70 White, 208,200# 20/40 White, and 28,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6325#, MaxP-8029#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,196	12,200	8	32	60	
	12,171	12,175	8	32	60	
	12,146	12,150	8	32	60	
	12,121	12,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4397 bbls comprised of 81 bbls of 15% HCL, 17 bbls Rhino NSF, 322 bbls Liberty FR, 190 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,000# 40/70 White, 235,280# 20/40 White, and 30,000# 20/40 CRC. AR-76bpm, MaxR-77bpm, AP-6783#, MaxP-7351#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,321	13,325	8	32	60	
	13,296	13,300	8	32	60	
	13,271	13,275	8	32	60	
	13,246	13,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4090 bbls comprised of 36 bbls of 15% HCL, 27 bbls Rhino NSF, 179 bbls Liberty FR, 239 bbls treated water, and 3161 bbls 16# Justice. Pumped 30,000# 40/70 White, 180,400# 20/40 White, and 34,800# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6757#, MaxP-7537#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,196	13,200	8	32	60	
	13,171	13,175	8	32	60	
	13,146	13,150	8	32	60	
	13,121	13,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4055 bbls comprised of 49 bbls of 15% HCL, 27 bbls Rhino NSF, 173 bbls Liberty FR, 221 bbls treated water, and 3167 bbls 16# Justice. Pumped 45,000# 40/70 White, 200,060# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6826#, MaxP-7674#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,071	13,075	8	32	60	
	13,046	13,050	8	32	60	
	13,021	13,025	8	32	60	
	12,996	13,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/20/2016	Open	Wolfcamp		4218 bbls comprised of 41 bbls of 15% HCL, 21 bbls Rhino NSF, 497 bbls Liberty FR, 213 bbls treated water, and 3335 bbls 16# Justice. Pumped 28,980# 40/70 White, 230,060# 20/40 White, and 34,080# 20/40 CRC. AR-73bpm, MaxR-75bpm, AP-6792#, MaxP-7246#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,946	12,950	8	32	60	
	12,921	12,925	8	32	60	
	12,896	12,900	8	32	60	
	12,871	12,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		2892 bbls comprised of 36 bbls of 15% HCL, 34 bbls Rhino NSF, 387 bbls Liberty FR, 166 bbls treated water, and 2182 bbls 16# Justice. Pumped 33,000# 40/70 White, 52,200# 20/40 White, and 0# 20/40 CRC. AR-58bpm, MaxR-80bpm, AP-5475#, MaxP-8104#. ISIP-35	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,071	12,075	8	32	60	
	12,046	12,050	8	32	60	
	12,021	12,025	8	32	60	
	11,996	12,000	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/21/2016	Open	Wolfcamp		4025 bbls comprised of 36 bbls of 15% HCL, 14 bbls Rhino NSF, 417 bbls Liberty FR, 153 bbls treated water, and 3295 bbls 16# Justice. Pumped 29,020# 40/70 White, 225,040# 20/40 White, and 28,580# 20/40 CRC. AR-72bpm, MaxR-80bpm, AP-6298#, MaxP-7023#.	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,946	11,950	8	32	60	
	11,921	11,925	8	32	60	
	11,896	11,900	8	32	60	
	11,871	11,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	

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C	Date	Perf. Status	Formation	Comments		
	12/21/2016	Open	Wolfcamp	4114 bbls comprised of 36 bbls of 15% HCL, 17 bbls Rhino NSF, 407 bbls Liberty FR, 157 bbls treated water, and 3362 bbls 16# Justice. Pumped 28,000# 40/70 White, 235,360# 20/40 White, and 25,000# 20/40 CRC. AR-73bpm, MaxR-78bpm, AP-6400#, MaxP-8411#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,796	11,800	8	32	60	
	11,771	11,775	8	32	60	
	11,746	11,750	8	32	60	
	11,821	11,825	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4698 bbls comprised of 33 bbls of 15% HCL, 23 bbls Rhino NSF, 391 bbls Liberty FR, 145 bbls treated water, and 3918 bbls 16# Justice. Pumped 45,180# 40/70 White, 240,280# 20/40 White, and 22,720# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6228#, MaxP-6064#. IS		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,696	11,700	8	32	60	
	11,671	11,675	8	32	60	
	11,646	11,650	8	32	60	
	11,621	11,625	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	5087 bbls comprised of 39 bbls of 15% HCL, 12 bbls Rhino NSF, 745 bbls Liberty FR, 157 bbls treated water, and 4033 bbls 16# Justice. Pumped 30,060# 40/70 White, 223,260# 20/40 White, and 25,000# 20/40 CRC. AR-72bpm, MaxR-76bpm, AP-6548#, MaxP-8214#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,571	11,575	8	32	60	
	11,546	11,550	8	32	60	
	11,521	11,525	8	32	60	
	11,496	11,500	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4122 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 404 bbls Liberty FR, 133 bbls treated water, and 3375 bbls 16# Justice. Pumped 29,960# 40/70 White, 222,160# 20/40 White, and 40,000# 20/40 CRC. AR-75bpm, MaxR-76bpm, AP-6623#, MaxP-7539#. I		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,446	11,450	8	32	60	
	11,421	11,425	8	32	60	
	11,396	11,400	8	32	60	
	11,371	11,375	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4008 bbls comprised of 36 bbls of 15% HCL, 15 bbls Rhino NSF, 391 bbls Liberty FR, 116 bbls treated water, and 3337 bbls 16# Justice. Pumped 30,000# 40/70 White, 230,020# 20/40 White, and 30,380# 20/40 CRC. AR-74bpm, MaxR-80bpm, AP-6504#, MaxP-8005#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,321	11,325	8	32	60	
	11,296	11,300	8	32	60	
	11,271	11,275	8	32	60	
	11,246	11,250	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	3997 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 398 bbls Liberty FR, 120 bbls treated water, and 3304 bbls 16# Justice. Pumped 29,180# 40/70 White, 221,320# 20/40 White, and 35,320# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6503#, MaxP-7721#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,196	11,200	8	32	60	
	11,171	11,175	8	32	60	
	11,146	11,150	8	32	60	
	11,121	11,125	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	4091 bbls comprised of 36 bbls of 15% HCL, 18 bbls Rhino NSF, 381 bbls Liberty FR, 110 bbls treated water, and 3413 bbls 16# Justice. Pumped 25,960# 40/70 White, 230,040# 20/40 White, and 25,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6427#, MaxP-7591#.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,071	11,075	8	32	60	
	11,046	11,050	8	32	60	
	11,021	11,025	8	32	60	
	10,996	11,000	8	32	60	
C	Date	Perf. Status	Formation	Comments		
	12/22/2016	Open	Wolfcamp	3937 bbls comprised of 36 bbls of 15% HCL, 15 bbls Rhino NSF, 406 bbls Liberty FR, 103 bbls treated water, and 3271 bbls 16# Justice. Pumped 30,000# 40/70 White, 245,000# 20/40 White, and 30,520# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6348#, MaxP-7983#.		

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,946	10,950	8	32	60	
	10,921	10,925	8	32	60	
	10,896	10,900	8	32	60	
	10,871	10,875	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3936 bbls comprised of 36 bbls of 15% HCL, 12 bbls Rhino NSF, 364 bbls Liberty FR, 103 bbls treated water, and 3283 bbls 16# Justice. Pumped 25,060# 40/70 White, 235,220# 20/40 White, and 20,600# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6255#, MaxP-7665#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,821	10,825	8	32	60	
	10,796	10,800	8	32	60	
	10,771	10,775	8	32	60	
	10,746	10,750	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3949 bbls comprised of 36 bbls of 15% HCL, 16 bbls Rhino NSF, 378 bbls Liberty FR, 93 bbls treated water, and 3274 bbls 16# Justice. Pumped 28,080# 40/70 White, 235,160# 20/40 White, and 35,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6399#, MaxP-7822#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,696	10,700	8	32	60	
	10,671	10,675	8	32	60	
	10,646	10,650	8	32	60	
	10,621	10,625	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3937 bbls comprised of 36 bbls of 15% HCL, 10 bbls Rhino NSF, 364 bbls Liberty FR, 85 bbls treated water, and 3315 bbls 16# Justice. Pumped 29,000# 40/70 White, 229,860# 20/40 White, and 30,820# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6142#, MaxP-7726#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,571	10,575	8	32	60	
	10,546	10,550	8	32	60	
	10,521	10,525	8	32	60	
	10,496	10,500	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3841 bbls comprised of 34 bbls of 15% HCL, 12 bbls Rhino NSF, 380 bbls Liberty FR, 74 bbls treated water, and 3206 bbls 16# Justice. Pumped 24,060# 40/70 White, 234,810# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6451#, MaxP-7665#. I	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,446	10,450	8	32	60	
	10,421	10,425	8	32	60	
	10,396	10,400	8	32	60	
	10,371	10,375	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3819 bbls comprised of 36 bbls of 15% HCL, 12 bbls Rhino NSF, 413 bbls Liberty FR, 68 bbls treated water, and 3187 bbls 16# Justice. Pumped 29,000# 40/70 White, 229,940# 20/40 White, and 29,700# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6364#, MaxP-7651#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,321	10,325	8	32	60	
	10,296	10,300	8	32	60	
	10,271	10,275	8	32	60	
	10,246	10,250	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3873 bbls comprised of 36 bbls of 15% HCL, 13 bbls Rhino NSF, 401 bbls Liberty FR, 63 bbls treated water, and 3251 bbls 16# Justice. Pumped 25,060# 40/70 White, 230,500# 20/40 White, and 29,580# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6558#, MaxP-7924#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,196	10,200	8	32	60	
	10,171	10,175	8	32	60	
	10,146	10,150	8	32	60	
	10,121	10,125	8	32	60	
C	Date	Perf. Status	Formation		Comments	
	12/23/2016	Open	Wolfcamp		3833 bbls comprised of 36 bbls of 15% HCL, 13 bbls Rhino NSF, 406 bbls Liberty FR, 63 bbls treated water, and 3216 bbls 16# Justice. Pumped 25,000# 40/70 White, 230,320# 20/40 White, and 28,580# 20/40 CRC. AR-74bpm, MaxR-76bpm, AP-6823#, MaxP-8453#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,071	10,075	8	32	60	
	10,041	10,045	8	32	60	

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C	Date	Perf. Status	Formation		Comments	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,011	10,015	8	32	60	
	9,981	9,985	8	32	60	
C	12/23/2016	Open	Wolfcamp		3782 bbls comprised of 36 bbls of 15% HCL, 11 bbls Rhino NSF, 406 bbls Liberty FR, 53 bbls treated water, and 3180 bbls 16# Justice. Pumped 23,000# 40/70 White, 230,260# 20/40 White, and 30,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6707#, MaxP-7763#. IS	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	9,946	9,950	8	32	60	
	9,921	9,925	8	32	60	
	9,896	9,900	8	32	60	
	9,871	9,875	8	32	60	
C	12/23/2016	Open	Wolfcamp		4084 bbls comprised of 36 bbls of 15% HCL, 48 bbls Rhino NSF, 349 bbls Liberty FR, 57 bbls treated water, and 3409 bbls 16# Justice. Pumped 22,000# 40/70 White, 235,000# 20/40 White, and 35,000# 20/40 CRC. AR-74bpm, MaxR-77bpm, AP-6337#, MaxP-7598#. ISIP	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	9,821	9,825	8	32	60	
	9,796	9,800	8	32	60	
	9,771	9,775	8	32	60	
	9,746	9,750	8	32	60	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	751	
Top of Salt	1,599	
Base of Salt	2,199	
Delaware	2,400	
Cherry Canyon	3,033	
Brushy Canyon	4,327	
Bone Spring	5,908	
Wolfcamp	9,115	

Field Name	Lease Name	Well No.	County	State	API No.	Version	Version Tag	Spud Date	Comp. Date	G.L. (ft)	K.B. (ft)
Black River	Mad River 13 State	3H	Eddy	New Mexico	30015438980000	1	Completed	10/27/2016	1/2/2017	3,102.0	3,124.0
Sec.	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From	Latitude	Longitude	Well Status	PropNum
13	24S	27E	330	FSL	175	FEL		32.211285	-104.135825	Completed	38924
Operator											
Caza Oil and Gas, Inc											
Last Updated	Prepared By	Updated By	Additional Information								
3/15/2017 6:45:43 AM	Steve Morris	Steve Morris									

