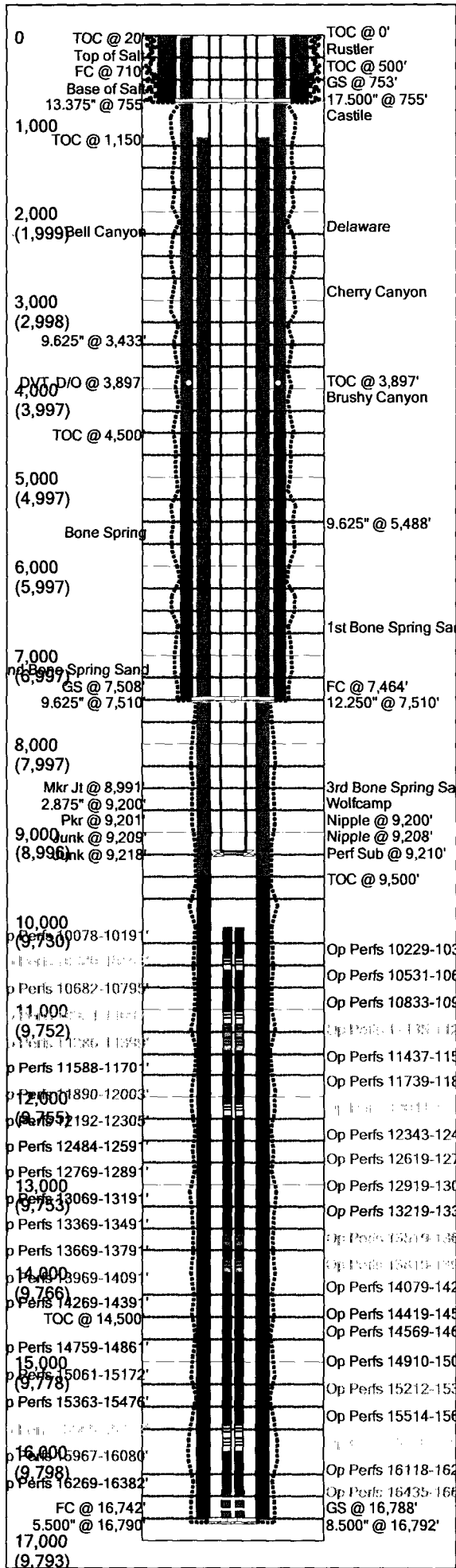


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Field Name	Lease Name	Well No.
Forehand	Forehand Ranch 22 State	9H
County	State	API No.
Eddy	New Mexico	30-015-44063
Version	Version Tag	
1	Completed	
GL (ft)	KB (ft)	Section
3,149.0	3,174.0	22
		27S
Operator	Well Status	Latitude
Caza Operating	Completed	32.289571
		-104.179923
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)
2310	FSL	2030
		FWL
Prop Num	Spud Date	Comp. Date
314249	4/6/2017	12/14/2017

Additional Information			
Other 1	Other 2	Other 3	Other 4
Prepared By	Updated By	Last Updated	
Steve	Steve	1/3/2018 3:38 PM	

Prepared By		Updated By		Last Updated	
Steve		Steve		1/3/2018 3:28 PM	
Hole Summary					
Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	ANN OIL CONSERVATION COMMENTS	
4/7/2017	17.500	0	755	ARTESIA DISTRICT	
4/15/2017	12.250	755	7,510	JAN 08 2018	
4/28/2017	8.500	7,510	16,792	DISTRICT	

Casing Cement Summary						
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	4/7/2017	300	13.375	0	500	Circ 33sx to surface
	4/7/2017	345	13.375	500	755	
	4/16/2017	965	9.625	20	3,897	Temp log TOC @ 20'
	4/16/2017	445	9.625	3,897	4,500	
	4/16/2017	1,195	9.625	4,500	7,510	
	4/29/2017	840	5.500	1,150	9,500	CBL @ 1150
	4/29/2017	1,275	5.500	9,500	14,500	
	4/29/2017	150	5.500	14,500	16,744	

Tools/Problems Summary						
Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	
4/7/2017	FC	13.375	0.000	710	0	
4/7/2017	GS	13.375	0.000	753	0	
4/15/2017	DVT, D/O	9.625	0.000	3,897	0	
4/15/2017	FC	9.625	0.000	7,464	0	
4/15/2017	GS	9.625	0.000	7,508	0	
4/29/2017	Mkr Jt	5.500	0.000	8,991	9,013	
12/24/2017	Nipple	2.875	2.310	9,200	0	
12/24/2017	Pkr	4.780	2.250	9,201	0	
12/24/2017	Nipple	2.875	2.250	9,208	0	
12/24/2017	Junk	2.785	2.250	9,209	9,210	
12/24/2017	Perf Sub	2.875	0.000	9,210	9,218	
12/24/2017	Junk	2.875	2.250	9,218	9,219	
4/29/2017	FC	5.500	0.000	16,742	0	
4/29/2017	GS	5.500	0.000	16,788	0	

Perforation Summary						
C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	12/13/2017	Open	Wolfcamp	10,078	10,191	32
	12/13/2017	Open	Wolfcamp	10,229	10,342	32
	12/12/2017	Open	Wolfcamp	10,380	10,493	32
	12/12/2017	Open	Wolfcamp	10,531	10,644	32
	12/12/2017	Open	Wolfcamp	10,682	10,795	32
	12/12/2017	Open	Wolfcamp	10,833	10,946	32

NEW MEXICO OIL CONSERVATION DISTRICT
JAN 08 2018

RECEIVED

Accepted for record - No relevant information provided
RHOCD

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C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	12/11/2017	Open	Wolfcamp	10,984	11,097	32
	12/11/2017	Open	Wolfcamp	11,135	11,248	32
	12/11/2017	Open	Wolfcamp	11,286	11,399	32
	12/11/2017	Open	Wolfcamp	11,437	11,546	32
	12/10/2017	Open	Wolfcamp	11,588	11,701	32
	12/10/2017	Open	Wolfcamp	11,739	11,852	32
	12/10/2017	Open	Wolfcamp	11,890	12,003	32
	12/10/2017	Open	Wolfcamp	12,041	12,154	32
	12/10/2017	Open	Wolfcamp	12,192	12,305	32
	12/9/2017	Open	Wolfcamp	12,343	12,456	32
	12/9/2017	Open	Wolfcamp	12,484	12,591	32
	12/9/2017	Open	Wolfcamp	12,619	12,741	32
	12/9/2017	Open	Wolfcamp	12,769	12,891	32
	12/9/2017	Open	Wolfcamp	12,919	13,041	32
	12/8/2017	Open	Wolfcamp	13,069	13,191	32
	12/8/2017	Open	Wolfcamp	13,219	13,341	32
	12/8/2017	Open	Wolfcamp	13,369	13,491	32
	12/8/2017	Open	Wolfcamp	13,519	13,641	32
	12/7/2017	Open	Wolfcamp	13,669	13,791	32
	12/7/2017	Open	Wolfcamp	13,819	13,941	32
	12/7/2017	Open	Wolfcamp	13,969	14,091	32
	12/6/2017	Open	Wolfcamp	14,079	14,201	32
	12/6/2017	Open	Wolfcamp	14,269	14,391	32
	12/6/2017	Open	Wolfcamp	14,419	14,541	32
	12/5/2017	Open	Wolfcamp	14,569	14,691	32
	12/4/2017	Open	Wolfcamp	14,759	14,861	40
	12/4/2017	Open	Wolfcamp	14,910	15,023	32
	12/4/2017	Open	Wolfcamp	15,061	15,172	32
	12/4/2017	Open	Wolfcamp	15,212	15,325	32
	12/3/2017	Open	Wolfcamp	15,363	15,476	32
	12/3/2017	Open	Wolfcamp	15,514	15,627	32
	12/3/2017	Open	Wolfcamp	15,665	15,778	32
	12/3/2017	Open	Wolfcamp	15,816	15,929	32
	12/2/2017	Open	Wolfcamp	15,967	16,080	32
	12/2/2017	Open	Wolfcamp	16,118	16,231	32
	12/1/2017	Open	Wolfcamp	16,269	16,382	24
	12/1/2017	Open	Wolfcamp	16,435	16,671	18

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	153	
Top of Salt	453	
Base of Salt	753	
Castile	881	
Delaware	2,139	
Bell Canyon	2,196	
Cherty Canyon	2,875	
Brushy Canyon	4,066	
Bone Spring	5,584	
1st Bone Spring Sand	6,650	
2nd Bone Spring Sand	7,210	
3rd Bone Spring Sand	8,666	
Wolfcamp	9,012	

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Field Name		Lease Name		Well No.	County		State		API No.	
Forehand		Forehand Ranch 22 State		9H	Eddy		New Mexico		30015440630000	
Version	Version Tag				Spud Date		Comp. Date		GL (ft)	KB (ft)
	1 Completed				4/6/2017		12/14/2017		3,149.0	3,174.0
Section	Township/Block	Range/Survey		Dist. N/S (ft)	N/S Line	Dist. E/W (ft)		E/W Line	Footage From	
22	23S	27E		2,310	FSL	2,030		FWL	SECTION	
Operator			Well Status			Latitude		Longitude		Prop Num
Caza Operating			Completed			32.289571		-104.179923		314249
Other 1		Other 2			Other 3			Other 4		
Last Updated		Prepared By				Updated By				
01/03/2018 3:38 PM		Steve				Steve				
Additional Information										

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
4/7/2017	17.500	0	755	
4/15/2017	12.250	755	7,510	
4/28/2017	8.500	7,510	16,792	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
4/7/2017	Surface Casing	18	13.375	54.50	J55	0	755	
4/15/2017	Intermediate Casing	86	9.625	40.00	J55	0	3,433	
4/15/2017	Intermediate Casing	48	9.625	40.00	HCL80	3,433	5,488	
4/15/2017	Intermediate Casing	47	9.625	47.00	HCL80	5,488	7,510	
4/29/2017	Production Casing	370	5.500	17.00	HCP110	0	16,790	
12/24/2017	Tubing	282	2.875	6.50	L80	0	9,200	

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
	4/7/2017	300	1.85	555	13.375	0	500	12.8ppg 35/65 Poz C + 3lbs sodium + 6lbs Gel + 0.4lbs CPT-503p + 0.25lbs Celloflake	Circ 33sx to surface
	4/7/2017	345	1.35	466	13.375	500	755	14.8ppg Class C + 2lbs CaCl ₂ + 0.3lbs CPT-503p + 0.25lbs Celloflake	
	4/16/2017	965	2.03	1,959	9.625	20	3,897	12.7ppg 35/65 Poz C + 10# Salt + 6# Gel + 0.5# CPT-45 + 0.25# Celloflake + 0.5# CPT-20a	Temp log TOC @ 20'
	4/16/2017	445	2.04	908	9.625	3,897	4,500	12.7ppg 35/65 Poz C + 10# Salt + 6# Gel + 0.5# CPT-45 + 0.25# Celloflake + 0.5# CPT-20a	
	4/16/2017	1,195	1.33	1,589	9.625	4,500	7,510	14.8ppg Class C + 0.2# CPT-19 + 0.25# CPT-20a	
	4/29/2017	840	2.79	2,344	5.500	1,150	9,500		CBL @ 1150
	4/29/2017	1,275	1.40	1,785	5.500	9,500	14,500		
	4/29/2017	150	2.16	324	5.500	14,500	16,744		

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
4/7/2017	Float Collar	13.375	0.000	710	0		
4/7/2017	Guide Shoe	13.375	0.000	753	0		
4/15/2017	DV tool (drilled out)	9.625	0.000	3,897	0		
4/15/2017	Float Collar	9.625	0.000	7,464	0		
4/15/2017	Guide Shoe	9.625	0.000	7,508	0		
4/29/2017	Marker Joint	5.500	0.000	8,991	9,013		
12/24/2017	Nipple	2.875	2.310	9,200	0		
12/24/2017	Packer	4.780	2.250	9,201	0		
12/24/2017	Nipple	2.875	2.250	9,208	0		
12/24/2017	Junk	2.785	2.250	9,209	9,210	Rupture Disk	
12/24/2017	Perforated Sub	2.875	0.000	9,210	9,218		
12/24/2017	Junk	2.875	2.250	9,218	9,219	Mule shoe collar no blade	
4/29/2017	Float Collar	5.500	0.000	16,742	0		
4/29/2017	Guide Shoe	5.500	0.000	16,788	0		

Perforation Summary

C	Date	Perf. Status	Formation		Comments	
	12/1/2017	Open	Wolfcamp		8898 clean bbls consisting of 7824 bbls Liberty FR, 36 bbls HCL-15, 106 bbls FW, 12 bbls Rhino NSF, 0 bbls treated water, 920 bbls 10# Justice. Pumped 362,610 lbs 40/70 white, and 25,620 lbs 40/70 CRC. AP-6594 psi, MaxP-7749 psi, AR-78 bpm, MaxR-82 bpm.	
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
16,435		16,436	6	6	60	
16,552		16,553	6	6	60	
16,670		16,671	6	6	60	

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C	Date	Perf. Status	Formation	Comments		
	12/1/2017	Open	Wolfcamp	6768 clean bbls consisting of 264 bbls treated water 5692 bbls Liberty FR, 36 bbls HCL-15, 42 bbls FW, 12 bbls Rhino NSF, 703 bbls 10# Justice. Pumped 252,250 lbs 40/70 white, and 0 lbs 40/70 CRC. AP-7027 psi, MaxP-7952 psi, AR-78 bpm, MaxR-83 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16,269	16,271	8	8	60	
	16,306	16,308	8	8	60	
	16,380	16,382	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/2/2017	Open	Wolfcamp	8768 clean bbls consisting of 304 bbls treated water 7570 bbls Liberty FR, 36 bbls HCL-15, 63 bbls FW, 12 bbls Rhino NSF, 783 bbls 10# Justice. Pumped 365,990 lbs 40/70 white, and 22,670 lbs 40/70 CRC. AP-6888 psi, MaxP-7999 psi, AR-77 bpm, MaxR-82 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16,118	16,120	8	8	60	
	16,155	16,157	8	8	60	
	16,192	16,194	8	8	60	
	16,229	16,231	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/2/2017	Open	Wolfcamp	8827 clean bbls consisting of 296 bbls treated water 7749 bbls Liberty FR, 36 bbls HCL-15, 134 bbls FW, 12 bbls Rhino NSF, 601 bbls 10# Justice. Pumped 363,150 lbs 40/70 white, and 26,020 lbs 40/70 CRC. AP-7052 psi, MaxP-8065 psi, AR-81 bpm, MaxR-82 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15,967	15,969	8	8	60	
	16,004	16,006	8	8	60	
	16,041	16,043	8	8	60	
	16,078	16,080	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/3/2017	Open	Wolfcamp	8483 clean bbls consisting of 313 bbls treated water 7452 bbls Liberty FR, 36 bbls HCL-15, 71 bbls FW, 12 bbls Rhino NSF, 599 bbls 10# Justice. Pumped 364,170 lbs 40/70 white, and 26,140 lbs 40/70 CRC. AP-7059 psi, MaxP-8257 psi, AR-79 bpm, MaxR-81 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15,816	15,818	8	8	60	
	15,853	15,855	8	8	60	
	15,890	15,892	8	8	60	
	15,927	15,929	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/3/2017	Open	Wolfcamp	8561 clean bbls consisting of 284 bbls treated water 7486 bbls Liberty FR, 36 bbls HCL-15, 93 bbls FW, 12 bbls Rhino NSF, 651 bbls 10# Justice. Pumped 363,050 lbs 40/70 white, and 47,360 lbs 40/70 CRC. AP-7272 psi, MaxP-8113 psi, AR-79 bpm, MaxR-82 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15,665	15,667	8	8	60	
	15,702	15,704	8	8	60	
	15,739	15,741	8	8	60	
	15,776	15,778	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/3/2017	Open	Wolfcamp	4139 clean bbls consisting of 257 bbls treated water 3392 bbls Liberty FR, 36 bbls HCL-15, 105 bbls FW, 12 bbls Rhino NSF, 338 bbls 10# Justice. Pumped 117,650 lbs 40/70 white, and 0 lbs 40/70 CRC. AP-7246 psi, MaxP-8828 psi, AR-50 bpm, MaxR-81 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15,514	15,516	8	8	60	
	15,551	15,553	8	8	60	
	15,588	15,590	8	8	60	
	15,625	15,627	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/3/2017	Open	Wolfcamp	7734 clean bbls consisting of 260 bbls treated water 6319 bbls Liberty FR, 42 bbls HCL-15, 96 bbls FW, 12 bbls Rhino NSF, 718 bbls 10# Justice. Pumped 242,570 lbs 40/70 white, and 0 lbs 40/70 CRC. AP-7247 psi, MaxP-8430 psi, AR-77 bpm, MaxR-82 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15,363	15,365	8	8	60	
	15,400	15,402	8	8	60	
	15,437	15,439	8	8	60	
	15,474	15,476	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/4/2017	Open	Wolfcamp	7113 clean bbls consisting of 247 bbls treated water 6099 bbls Liberty FR, 38 bbls HCL-15, 377 bbls FW, 12 bbls Rhino NSF, 608 bbls 10# Justice. Pumped 285,010 lbs 40/70 white, and 0 lbs 40/70 CRC. AP-7216 psi, MaxP-8359 psi, AR-75 bpm, MaxR-77 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15,212	15,214	8	8	60	
	15,249	15,251	8	8	60	
	15,286	15,288	8	8	60	
	15,323	15,325	8	8	60	
C	Date	Perf. Status	Formation	Comments		

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C	Date	Perf. Status	Formation	Comments		
	12/4/2017	Open	Wolfcamp	7719 clean bbls consisting of 250 bbls treated water 7132 bbls Liberty FR, 38 bbls HCL-15, 71 bbls FW, 12 bbls Rhino NSF, 254 bbls 16# Justice. Pumped 205,850 lbs 40/70 white, and 47,2400 lbs 40/70 CRC. AP-7721 psi, MaxP-8219 psi, AR-75 bpm, MaxR-77 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	15,061	15,063	8	8	60	
	15,098	15,098	8	8	60	
	15,135	15,135	8	8	60	
	15,172	15,172	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/4/2017	Open	Wolfcamp	4150 clean bbls consisting of 262 bbls treated water 3388 bbls Liberty FR, 36 bbls HCL-15, 106 bbls FW, 12 bbls Rhino NSF, 346 bbls 16# Justice. Pumped 106,700 lbs 40/70 white, and 0 lbs 40/70 CRC. AP-7260 psi, MaxP-8711 psi, AR-80 bpm, MaxR-82 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14,910	14,912	8	8	60	
	14,947	14,949	8	8	60	
	14,984	14,986	8	8	60	
	15,021	15,023	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/4/2017	Open	Wolfcamp	12645 clean bbls consisting of 267 bbls treated water 11742 bbls Liberty FR, 71 bbls HCL-15, 106 bbls FW, 12 bbls Rhino NSF, 427 bbls 10# Linear Guar. Pumped 241,680 lbs 40/70 white, and 36,520 lbs 40/70 CRC. AP-6935 psi, MaxP-9003 psi, AR-63 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14,759	14,761	8	8	60	
	14,784	14,786	8	8	60	
	14,809	14,811	8	8	60	
	14,834	14,836	8	8	60	
	14,859	14,861	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/5/2017	Open	Wolfcamp	7847 clean bbls consisting of 0 bbls treated water 7057 bbls Liberty FR, 48 bbls HCL-15, 39 bbls FW, 12 bbls Rhino NSF, 692 bbls 12# Linear Guar. Pumped 260,630 lbs 40/70 white, and 11,000 lbs 40/70 CRC. AP-7113 psi, MaxP-7737 psi, AR-76 bpm, MaxR-76 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14,569	14,571	8	8	60	
	14,609	14,611	8	8	60	
	14,649	14,651	8	8	60	
	14,689	14,691	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/6/2017	Open	Wolfcamp	9782 clean bbls consisting of 218 bbls treated water 8472 bbls Liberty FR, 36 bbls HCL-15, 143 bbls FW, 12 bbls Rhino NSF, 902 bbls 14# Linear Guar. Pumped 286,900 lbs 40/70 white, and 30,560 lbs 40/70 CRC. AP-6988 psi, MaxP-8127 psi, AR-77 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14,419	14,421	8	8	60	
	14,459	14,461	8	8	60	
	14,499	14,501	8	8	60	
	14,539	14,541	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/6/2017	Open	Wolfcamp	9367 clean bbls consisting of 218 bbls treated water 7649 bbls Liberty FR, 36 bbls HCL-15, 110 bbls FW, 12 bbls Rhino NSF, 1561 bbls 14# Linear Guar. Pumped 287,930 lbs 40/70 white, and 43,730 lbs 40/70 CRC. AP-6766 psi, MaxP-7274 psi, AR-76 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14,269	14,271	8	8	60	
	14,311	14,313	8	8	60	
	14,349	14,351	8	8	60	
	14,389	14,391	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/6/2017	Open	Wolfcamp	9179 clean bbls consisting of 229 bbls treated water 7776 bbls Liberty FR, 36 bbls HCL-15, 37 bbls FW, 12 bbls Rhino NSF, 1089 bbls 14# Linear Guar. Pumped 323,900 lbs 40/70 white, and 41,980 lbs 40/70 CRC. AP-7030 psi, MaxP-7877 psi, AR-80 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14,079	14,081	8	8	60	
	14,119	14,121	8	8	60	
	14,159	14,161	8	8	60	
	14,199	14,201	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/7/2017	Open	Wolfcamp	8941 clean bbls consisting of 229 bbls treated water 7571 bbls Liberty FR, 36 bbls HCL-15, 23 bbls FW, 12 bbls Rhino NSF, 1299 bbls 14# Linear Guar. Pumped 329,950 lbs 40/70 white, and 41,330 lbs 40/70 CRC. AP-7149 psi, MaxP-7719 psi, AR-80 bpm.		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13,969	13,971	8	8	60	
	14,009	14,011	8	8	60	
	14,049	14,051	8	8	60	
	14,089	14,091	8	8	60	

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C	Date	Perf. Status	Formation	Comments
	12/7/2017	Open	Wolfcamp	9463 clean bbls consisting of 198 bbls treated water 7938 bbls Liberty FR, 36 bbls HCL-15, 77 bbls FW, 12 bbls Rhino NSF, 1202 bbls 14# Linear Guar. Pumped 344,100 lbs 40/70 white, and 26,320 lbs 40/70 CRC. AP-6777 psi, MaxP-7914 psi, AR-80 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,819	13,821	8	8
	13,859	13,861	8	8
	13,899	13,901	8	8
	13,939	13,941	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments
	12/7/2017	Open	Wolfcamp	9259 clean bbls consisting of 173 bbls treated water 7466 bbls Liberty FR, 36 bbls HCL-15, 114 bbls FW, 12 bbls Rhino NSF, 1459 bbls 14# Linear Guar. Pumped 318,310 lbs 40/70 white, and 28,380 lbs 40/70 CRC. AP-7152 psi, MaxP-7908 psi, AR-73 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,669	13,671	8	8
	13,709	13,711	8	8
	13,749	13,751	8	8
	13,789	13,791	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments
	12/8/2017	Open	Wolfcamp	5789 clean bbls consisting of 200 bbls treated water 4719 bbls Liberty FR, 36 bbls HCL-15, 52 bbls FW, 12 bbls Rhino NSF, 770 bbls 14# Linear Guar. Pumped 194,830 lbs 40/70 white, and 0 lbs 40/70 CRC. AP-7205 psi, MaxP-7953 psi, AR-76 bpm, MaxR-81 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,519	13,521	8	8
	13,559	13,561	8	8
	13,599	13,601	8	8
	13,639	13,641	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments
	12/8/2017	Open	Wolfcamp	8745 clean bbls consisting of 181 bbls treated water 7226 bbls Liberty FR, 36 bbls HCL-15, 31 bbls FW, 12 bbls Rhino NSF, 1259 bbls 14# Linear Guar. Pumped 319,910 lbs 40/70 white, and 10,000 lbs 40/70 CRC. AP-6615 psi, MaxP-6963 psi, AR-79 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,369	13,371	8	8
	13,409	13,411	8	8
	13,449	13,451	8	8
	13,489	13,491	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments
	12/8/2017	Open	Wolfcamp	9363 clean bbls consisting of 177 bbls treated water 7902 bbls Liberty FR, 36 bbls HCL-15, 34 bbls FW, 12 bbls Rhino NSF, 1259 bbls 16# Linear Guar. Pumped 348,340 lbs 40/70 white, and 29,500 lbs 40/70 CRC. AP-6513 psi, MaxP-7968 psi, AR-80 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,219	13,221	8	8
	13,259	13,261	8	8
	13,299	13,301	8	8
	13,339	13,341	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments
	12/8/2017	Open	Wolfcamp	9138 clean bbls consisting of 147 bbls treated water 7590 bbls Liberty FR, 36 bbls HCL-15, 108 bbls FW, 12 bbls Rhino NSF, 1245 bbls 16# Linear Guar. Pumped 349,770 lbs 40/70 white, and 25,500 lbs 40/70 CRC. AP-6567 psi, MaxP-7314 psi, AR-80 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	13,069	13,071	8	8
	13,109	13,111	8	8
	13,149	13,151	8	8
	13,189	13,191	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments
	12/9/2017	Open	Wolfcamp	9322 clean bbls consisting of 166 bbls treated water 7855 bbls Liberty FR, 36 bbls HCL-15, 53 bbls FW, 12 bbls Rhino NSF, 1201 bbls 16# Linear Guar. Pumped 348,170 lbs 40/70 white, and 26,180 lbs 40/70 CRC. AP-6612 psi, MaxP-7997 psi, AR-80 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	12,919	12,921	8	8
	12,959	12,961	8	8
	12,999	13,001	8	8
	13,039	13,041	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments
	12/9/2017	Open	Wolfcamp	8945 clean bbls consisting of 149 bbls treated water 7529 bbls Liberty FR, 36 bbls HCL-15, 20 bbls FW, 12 bbls Rhino NSF, 1199 bbls 16# Linear Guar. Pumped 321,370 lbs 40/70 white, and 24,070 lbs 40/70 CRC. AP-6610 psi, MaxP-6904 psi, AR-80 bpm,
	Top (MD ft)	Bottom (MD ft)	SPF	Shots
	12,769	12,771	8	8
	12,809	12,811	8	8
	12,849	12,851	8	8
	12,889	12,891	8	8
				60
				60
				60
				60
C	Date	Perf. Status	Formation	Comments

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C	Date	Perf. Status	Formation	Comments		
	12/9/2017	Open	Wolfcamp	9271 clean bbls consisting of 138 bbls treated water 7855 bbls Liberty FR, 36 bbls HCL-15, 35 bbls FW, 12 bbls Rhino NSF, 1159 bbls 16# Linear Guar. Pumped 348,360 lbs 40/70 white, and 25,890 lbs 40/70 CRC. AP-6585 psi, MaxP-7876 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,619	12,621	8	8	60	
	12,659	12,661	8	8	60	
	12,699	12,701	8	8	60	
	12,739	12,741	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/9/2017	Open	Wolfcamp	9085 clean bbls consisting of 114 bbls treated water 7622 bbls Liberty FR, 36 bbls HCL-15, 102 bbls FW, 12 bbls Rhino NSF, 1200 bbls 16# Linear Guar. Pumped 344,530 lbs 40/70 white, and 28,990 lbs 40/70 CRC. AP-6616 psi, MaxP-7317 psi, AR-81 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,484	12,486	8	8	60	
	12,519	12,521	8	8	60	
	12,554	12,556	8	8	60	
	12,589	12,591	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/9/2017	Open	Wolfcamp	9104 clean bbls consisting of 112 bbls treated water 7635 bbls Liberty FR, 36 bbls HCL-15, 111 bbls FW, 12 bbls Rhino NSF, 1199 bbls 16# Linear Guar. Pumped 348,440 lbs 40/70 white, and 25,920 lbs 40/70 CRC. AP-6455 psi, MaxP-7460 psi, AR-81 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,343	12,345	8	8	60	
	12,380	12,382	8	8	60	
	12,417	12,419	8	8	60	
	12,454	12,456	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/10/2017	Open	Wolfcamp	9389 clean bbls consisting of 243 bbls treated water 7865 bbls Liberty FR, 36 bbls HCL-15, 34 bbls FW, 12 bbls Rhino NSF, 1199 bbls 16# Linear Guar. Pumped 344,460 lbs 40/70 white, and 25,890 lbs 40/70 CRC. AP-6328 psi, MaxP-7915 psi, AR-79 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,192	12,194	8	8	60	
	12,229	12,231	8	8	60	
	12,266	12,268	8	8	60	
	12,303	12,305	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/10/2017	Open	Wolfcamp	9153 clean bbls consisting of 243 bbls treated water 7880 bbls Liberty FR, 36 bbls HCL-15, 23 bbls FW, 12 bbls Rhino NSF, 1202 bbls 16# Linear Guar. Pumped 348,080 lbs 40/70 white, and 25,930 lbs 40/70 CRC. AP-6246 psi, MaxP-6589 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12,041	12,043	8	8	60	
	12,078	12,080	8	8	60	
	12,115	12,117	8	8	60	
	12,152	12,154	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/10/2017	Open	Wolfcamp	9305 clean bbls consisting of 111 bbls treated water 7881 bbls Liberty FR, 36 bbls HCL-15, 32 bbls FW, 12 bbls Rhino NSF, 1209 bbls 16# Linear Guar. Pumped 358,070 lbs 40/70 white, and 25,960 lbs 40/70 CRC. AP-6337 psi, MaxP-8451 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,890	11,892	8	8	60	
	11,927	11,929	8	8	60	
	11,964	11,966	8	8	60	
	12,001	12,003	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/10/2017	Open	Wolfcamp	9086 clean bbls consisting of 89 bbls treated water 7645 bbls Liberty FR, 36 bbls HCL-15, 105 bbls FW, 12 bbls Rhino NSF, 1199 bbls 16# Linear Guar. Pumped 355,030 lbs 40/70 white, and 26,360 lbs 40/70 CRC. AP-6430 psi, MaxP-7760 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,739	11,741	8	8	60	
	11,776	11,778	8	8	60	
	11,813	11,815	8	8	60	
	11,850	11,852	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/10/2017	Open	Wolfcamp	9622 clean bbls consisting of 79 bbls treated water 7863 bbls Liberty FR, 36 bbls HCL-15, 29 bbls FW, 12 bbls Rhino NSF, 1603 bbls 16# Linear Guar. Pumped 337,480 lbs 40/70 white, and 26,380 lbs 40/70 CRC. AP-6684 psi, MaxP-7614 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,588	11,590	8	8	60	
	11,625	11,627	8	8	60	
	11,662	11,664	8	8	60	
	11,699	11,701	8	8	60	
C	Date	Perf. Status	Formation	Comments		

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C	Date	Perf. Status	Formation	Comments		
	12/11/2017	Open	Wolfcamp	9315 clean bbls consisting of 164 bbls treated water 7922 bbls Liberty FR, 36 bbls HCL-15, 35 bbls FW, 12 bbls Rhino NSF, 1146 bbls 16# Linear Guar. Pumped 355,370 lbs 40/70 white, and 25,880 lbs 40/70 CRC. AP-6461 psi, MaxP-8619 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,437	11,439	8	8	60	
	11,474	11,476	8	8	60	
	11,511	11,513	8	8	60	
	11,544	11,546	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/11/2017	Open	Wolfcamp	9257 clean bbls consisting of 66 bbls treated water 7839 bbls Liberty FR, 36 bbls HCL-15, 104 bbls FW, 12 bbls Rhino NSF, 1200 bbls 16# Linear Guar. Pumped 355,200 lbs 40/70 white, and 26,140 lbs 40/70 CRC. AP-6434 psi, MaxP-7872 psi, AR-81 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,286	11,288	8	8	60	
	11,323	11,325	8	8	60	
	11,360	11,362	8	8	60	
	11,397	11,399	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/11/2017	Open	Wolfcamp	9276 clean bbls consisting of 64 bbls treated water 7871 bbls Liberty FR, 36 bbls HCL-15, 93 bbls FW, 12 bbls Rhino NSF, 1200 bbls 16# Linear Guar. Pumped 354,620 lbs 40/70 white, and 26,220 lbs 40/70 CRC. AP-6522 psi, MaxP-7288 psi, AR-81 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11,135	11,137	8	8	60	
	11,172	11,174	8	8	60	
	11,209	11,211	8	8	60	
	11,246	11,248	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/11/2017	Open	Wolfcamp	9245 clean bbls consisting of 60 bbls treated water 7805 bbls Liberty FR, 36 bbls HCL-15, 105 bbls FW, 12 bbls Rhino NSF, 1227 bbls 16# Linear Guar. Pumped 355,840 lbs 40/70 white, and 26,000 lbs 40/70 CRC. AP-6335 psi, MaxP-7505 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,984	10,986	8	8	60	
	11,021	11,023	8	8	60	
	11,058	11,060	8	8	60	
	11,095	11,097	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/12/2017	Open	Wolfcamp	9270 clean bbls consisting of 52 bbls treated water 7935 bbls Liberty FR, 36 bbls HCL-15, 35 bbls FW, 12 bbls Rhino NSF, 1200 bbls 16# Linear Guar. Pumped 356,200 lbs 40/70 white, and 26,050 lbs 40/70 CRC. AP-6409 psi, MaxP-7528 psi, AR-81 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,833	10,835	8	8	60	
	10,870	10,872	8	8	60	
	10,907	10,909	8	8	60	
	10,944	10,946	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/12/2017	Open	Wolfcamp	9187 clean bbls consisting of 56 bbls treated water 7776 bbls Liberty FR, 36 bbls HCL-15, 104 bbls FW, 12 bbls Rhino NSF, 1203 bbls 16# Linear Guar. Pumped 355,310 lbs 40/70 white, and 26,020 lbs 40/70 CRC. AP-6264 psi, MaxP-7954 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,682	10,684	8	8	60	
	10,719	10,721	8	8	60	
	10,756	10,758	8	8	60	
	10,793	10,795	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/12/2017	Open	Wolfcamp	8341 clean bbls consisting of 52 bbls treated water 7260 bbls Liberty FR, 36 bbls HCL-15, 82 bbls FW, 12 bbls Rhino NSF, 899 bbls 16# Linear Guar. Pumped 355,790 lbs 40/70 white, and 26,030 lbs 40/70 CRC. AP-5821 psi, MaxP-8097 psi, AR-70 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,531	10,533	8	8	60	
	10,568	10,570	8	8	60	
	10,601	10,603	8	8	60	
	10,642	10,644	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/12/2017	Open	Wolfcamp	9145 clean bbls consisting of 39 bbls treated water 7835 bbls Liberty FR, 36 bbls HCL-15, 23 bbls FW, 12 bbls Rhino NSF, 1200 bbls 16# Linear Guar. Pumped 355,920 lbs 40/70 white, and 25,830 lbs 40/70 CRC. AP-6410 psi, MaxP-6738 psi, AR-78 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,380	10,382	8	8	60	
	10,417	10,419	8	8	60	
	10,454	10,456	8	8	60	
	10,491	10,493	8	8	60	
C	Date	Perf. Status	Formation	Comments		

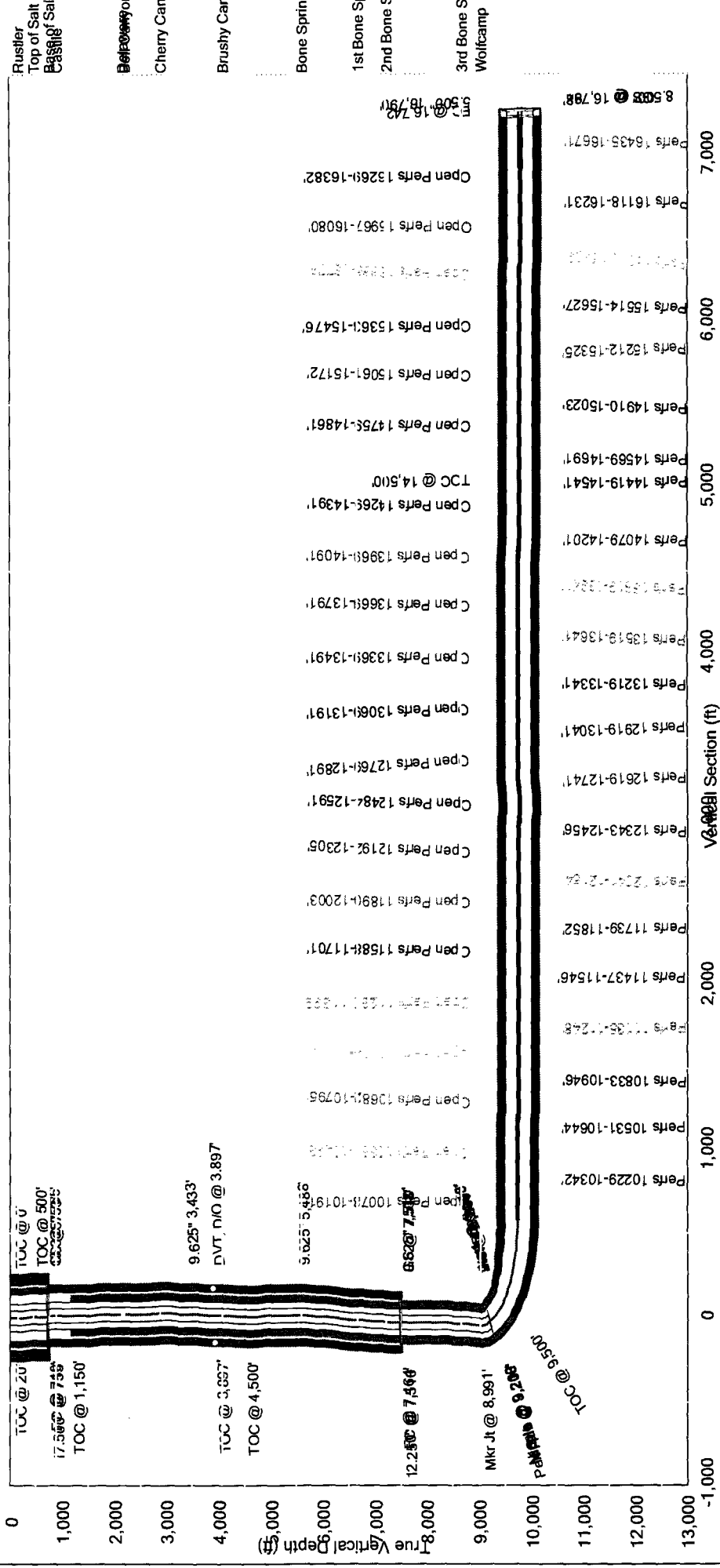
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C	Date	Perf. Status	Formation	Comments		
	12/13/2017	Open	Wolfcamp	9075 clean bbls consisting of 27 bbls treated water 7747 bbls Liberty FR, 36 bbls HCL-15, 37 bbls FW, 12 bbls Rhino NSF, 1216 bbls 16# Linear Guar. Pumped 354,800 lbs 40/70 white, and 27,160 lbs 40/70 CRC. AP-5788 psi, MaxP-7639 psi, AR-69 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,229	10,231	8	8	60	
	10,266	10,268	8	8	60	
	10,303	10,305	8	8	60	
	10,340	10,342	8	8	60	
C	Date	Perf. Status	Formation	Comments		
	12/13/2017	Open	Wolfcamp	11,250 clean bbls consisting of 88 bbls treated water 9850 bbls Liberty FR, 36 bbls HCL-15, 67 bbls FW, 12 bbls Rhino NSF, 1198 bbls 16# Linear Guar. Pumped 353,945 lbs 40/70 white, and 52,270 lbs 40/70 CRC. AP-6390 psi, MaxP-7598 psi, AR-80 bpm,		
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10,078	10,080	8	8	60	
	10,115	10,117	8	8	60	
	10,152	10,154	8	8	60	
	10,189	10,191	8	8	60	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
Rustler	153	
Top of Salt	453	
Base of Salt	753	
Castile	881	
Delaware	2,139	
Bell Canyon	2,196	
Cherry Canyon	2,875	
Brushy Canyon	4,066	
Bone Spring	5,584	
1st Bone Spring Sand	6,650	
2nd Bone Spring Sand	7,210	
3rd Bone Spring Sand	8,666	
Wolfcamp	9,012	

Field Name	Lease Name	Well No.	County	State	API No.	Version	Version Tag	Spud Date	Comp. Date	G.L. (ft)	K.B. (ft)
Forehand	Forehand Ranch 22 State	9H	Eddy	New Mexico	30015440630000	1	Completed	4/6/2017	12/14/2017	3,149.0	3,174.0
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
22	23S	27E	2310	FSL	2030	FWL		32.289571	-104.179923	Completed	314249
Last Updated	Prepared By	Updated By	Additional Information								
17/2018 3:38:04 PM	Steve	Steve									



Field Name		Lease Name		Well No.	API No.	Version	Version Tag			
Forehand		Forehand Ranch 22 State		9H	30015440630000	1	Completed			
Section	Township/Block		Range/Survey		County		State		GL (ft)	KB (ft)
22	23S		27E		Eddy		New Mexico		3,149.0	3,174.0
Target N (-S) (ft)		Target E (-W) (ft)		Latitude		Longitude		Operator		Well Status
-7230.219		146.4916		32.289571		-104.179923		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
230.0	1.7	224.5	230.0	2.4	-2.4	-2.4	0.74
416.0	1.4	232.6	415.9	5.7	-5.8	-6.1	0.20
600.0	0.9	222.1	599.9	8.1	-8.3	-8.9	0.29
701.0	1.1	211.7	700.8	9.5	-9.7	-10.0	0.26
798.0	0.9	216.0	797.8	10.8	-11.1	-10.9	0.24
979.0	0.8	207.8	978.8	13.0	-13.2	-12.3	0.10
1,163.0	0.6	239.8	1,162.8	14.5	-14.8	-13.7	0.22
1,349.0	0.7	120.7	1,348.8	15.6	-15.9	-13.5	0.60
1,538.0	2.0	107.4	1,537.7	17.2	-17.4	-9.5	0.68
1,728.0	3.6	107.1	1,727.5	20.1	-20.1	-0.7	0.85
1,918.0	3.7	86.7	1,917.1	21.7	-21.5	11.1	0.69
2,108.0	2.3	97.1	2,106.9	22.0	-21.6	21.0	0.82
2,297.0	1.6	91.4	2,295.8	22.7	-22.1	27.4	0.36
2,487.0	1.4	97.5	2,485.7	23.2	-22.5	32.4	0.15
2,677.0	1.5	108.1	2,675.6	24.3	-23.6	37.1	0.14
2,866.0	2.6	99.6	2,864.5	25.9	-25.0	43.6	0.61
3,056.0	2.9	83.0	3,054.3	26.2	-25.2	52.6	0.45
3,245.0	2.9	74.5	3,243.1	24.6	-23.3	61.9	0.23
3,434.0	2.7	67.1	3,431.8	21.7	-20.3	70.5	0.20
3,624.0	2.3	67.4	3,621.7	18.7	-17.1	78.2	0.24
3,813.0	2.1	67.3	3,810.5	16.1	-14.3	84.8	0.07
4,003.0	1.9	66.2	4,000.4	13.6	-11.7	90.9	0.13
4,192.0	1.6	69.5	4,189.3	11.5	-9.6	96.2	0.16
4,382.0	0.8	75.0	4,379.3	10.4	-8.3	99.8	0.44
4,571.0	0.2	101.5	4,568.3	10.1	-8.1	101.4	0.31
4,760.0	0.4	221.4	4,757.3	10.6	-8.6	101.3	0.26
4,950.0	0.8	248.6	4,947.3	11.5	-9.5	99.8	0.25
5,139.0	0.8	244.9	5,136.2	12.5	-10.5	97.4	0.03
5,255.0	0.1	173.4	5,252.2	12.9	-10.9	96.7	0.67
5,444.0	0.1	58.8	5,441.2	13.0	-11.0	96.8	0.09
5,633.0	1.1	6.2	5,630.2	11.1	-9.2	97.2	0.54
5,821.0	1.3	17.9	5,818.2	7.4	-5.4	98.0	0.17
6,011.0	0.9	344.2	6,008.2	4.0	-2.0	98.3	0.40
6,201.0	2.2	17.9	6,198.1	-0.9	2.9	99.0	0.83
6,391.0	1.3	13.2	6,388.0	-6.5	8.5	100.7	0.48
6,582.0	2.0	23.1	6,578.9	-11.7	13.7	102.5	0.38
6,771.0	1.3	29.9	6,767.8	-16.4	18.6	104.8	0.39
6,960.0	0.8	351.6	6,956.8	-19.5	21.7	105.7	0.43
7,150.0	1.3	339.9	7,146.8	-22.8	24.9	104.8	0.27
7,339.0	0.9	336.7	7,335.7	-26.1	28.2	103.4	0.17
7,450.0	0.9	306.6	7,446.7	-27.5	29.6	102.4	0.43
7,627.0	0.6	242.5	7,623.7	-28.0	30.0	100.3	0.49
7,817.0	0.6	350.7	7,813.7	-28.5	30.5	99.2	0.53
8,006.0	1.2	81.2	8,002.7	-29.7	31.8	101.0	0.72
8,195.0	2.8	89.9	8,191.6	-29.9	32.1	107.6	0.85
8,386.0	1.4	76.5	8,382.4	-30.4	32.7	114.6	0.76
8,575.0	2.0	22.4	8,571.4	-33.9	36.3	118.1	0.87
8,765.0	1.7	7.8	8,761.3	-39.8	42.2	119.8	0.29
8,860.0	2.0	1.5	8,856.2	-42.9	45.3	120.0	0.36
8,955.0	1.9	12.5	8,951.2	-46.0	48.5	120.4	0.41
9,003.0	1.8	15.0	8,999.1	-47.5	50.0	120.7	0.25
9,051.0	0.5	44.3	9,047.1	-48.4	50.8	121.1	2.87
9,098.0	4.6	187.0	9,094.1	-46.6	49.1	121.0	10.52
9,145.0	9.8	185.3	9,140.7	-40.8	43.3	120.4	11.07
9,192.0	14.3	180.8	9,186.7	-31.1	33.5	119.9	9.78

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
9,240.0	18.6	177.2	9,232.7	-17.5	19.9	120.2	9.36
9,287.0	22.5	180.2	9,276.7	-1.0	3.4	120.6	8.49
9,335.0	23.6	182.7	9,320.8	17.8	-15.4	120.1	3.11
9,382.0	26.5	184.5	9,363.4	37.6	-35.2	118.8	6.31
9,430.0	29.0	185.5	9,405.9	59.8	-57.5	116.9	5.37
9,477.0	31.5	181.6	9,446.5	83.5	-81.1	115.4	6.77
9,525.0	35.4	177.9	9,486.5	109.9	-107.6	115.6	9.11
9,572.0	41.0	178.4	9,523.4	138.9	-136.6	116.5	11.85
9,620.0	45.5	178.7	9,558.4	171.8	-169.5	117.3	9.53
9,667.0	48.4	181.4	9,590.5	206.1	-203.8	117.3	7.34
9,715.0	52.7	179.9	9,621.0	243.2	-240.9	116.9	9.41
9,762.0	58.9	179.1	9,647.4	282.0	-279.7	117.2	13.24
9,810.0	64.6	177.3	9,670.1	324.3	-322.0	118.6	12.41
9,857.0	68.9	176.5	9,688.6	367.5	-365.1	120.9	9.14
9,905.0	71.6	175.7	9,704.8	412.6	-410.1	124.0	5.90
9,952.0	74.1	176.2	9,718.7	457.4	-454.9	127.2	5.44
9,999.0	78.9	177.2	9,729.7	503.1	-500.5	129.8	10.40
10,046.0	82.8	176.9	9,737.1	549.4	-546.9	132.2	8.32
10,094.0	88.1	177.2	9,740.9	597.3	-594.6	134.7	11.10
10,188.0	91.4	178.3	9,741.3	691.2	-688.6	138.4	3.71
10,282.0	89.2	181.0	9,740.8	785.2	-782.5	139.0	3.73
10,377.0	89.2	181.3	9,742.2	880.1	-877.5	137.0	0.34
10,473.0	89.6	181.5	9,743.2	976.0	-973.5	134.6	0.49
10,568.0	90.6	181.4	9,743.0	1,070.9	-1,068.4	132.2	1.03
10,663.0	88.6	181.4	9,743.7	1,165.8	-1,163.4	129.8	2.13
10,757.0	87.8	180.9	9,746.6	1,259.7	-1,257.3	128.0	0.99
10,852.0	88.3	178.8	9,749.9	1,354.6	-1,352.3	128.2	2.23
10,947.0	89.8	179.5	9,751.5	1,449.6	-1,447.3	129.7	1.74
11,042.0	90.2	179.1	9,751.6	1,544.6	-1,542.2	130.9	0.61
11,137.0	90.3	179.1	9,751.2	1,639.6	-1,637.2	132.4	0.14
11,232.0	90.1	178.6	9,750.8	1,734.6	-1,732.2	134.4	0.54
11,327.0	89.8	178.0	9,750.9	1,829.6	-1,827.2	137.2	0.75
11,422.0	90.6	178.5	9,750.6	1,924.6	-1,922.1	140.2	1.06
11,517.0	89.7	177.6	9,750.3	2,019.6	-2,017.1	143.4	1.30
11,612.0	87.7	176.3	9,752.5	2,114.5	-2,111.9	148.4	2.59
11,706.0	90.6	177.5	9,753.9	2,208.4	-2,205.7	153.5	3.33
11,801.0	90.3	178.7	9,753.2	2,303.4	-2,300.7	156.7	1.30
11,896.0	89.8	178.4	9,753.1	2,398.4	-2,395.6	159.1	0.61
11,990.0	88.2	177.9	9,754.9	2,492.4	-2,489.6	162.1	1.82
12,086.0	88.5	177.3	9,757.7	2,588.3	-2,585.4	166.2	0.71
12,180.0	89.0	179.5	9,759.7	2,682.3	-2,679.4	168.9	2.45
12,274.0	87.1	179.1	9,762.8	2,776.2	-2,773.3	170.1	2.06
12,369.0	89.0	180.4	9,766.1	2,871.1	-2,868.3	170.5	2.38
12,464.0	90.1	180.8	9,766.9	2,966.1	-2,963.2	169.6	1.26
12,559.0	87.9	180.8	9,768.6	3,061.0	-3,058.2	168.3	2.37
12,653.0	90.5	181.7	9,769.9	3,154.9	-3,152.2	166.2	3.01
12,749.0	95.0	181.7	9,765.2	3,250.6	-3,248.0	163.3	4.69
12,844.0	93.0	180.2	9,758.6	3,345.3	-3,342.7	161.8	2.72
12,939.0	90.9	177.5	9,755.4	3,440.3	-3,437.7	163.7	3.58
13,034.0	93.1	177.5	9,752.1	3,535.2	-3,532.5	167.8	2.31
13,129.0	91.4	178.8	9,748.4	3,630.1	-3,627.4	170.9	2.20
13,224.0	90.2	181.2	9,747.1	3,725.1	-3,722.4	170.9	2.85
13,319.0	88.7	180.9	9,748.1	3,820.0	-3,817.3	169.2	1.57
13,414.0	89.9	180.4	9,749.2	3,914.9	-3,912.3	168.1	1.34
13,509.0	88.5	180.4	9,750.5	4,009.9	-4,007.3	167.4	1.56
13,603.0	87.1	180.4	9,754.2	4,103.8	-4,101.2	166.8	1.47
13,698.0	88.5	180.6	9,757.8	4,198.7	-4,196.2	165.9	1.54
13,792.0	88.6	179.3	9,760.2	4,292.6	-4,290.1	166.1	1.44
13,887.0	87.9	178.2	9,763.2	4,387.6	-4,385.0	168.1	1.29
13,982.0	88.8	179.6	9,766.0	4,482.5	-4,480.0	169.9	1.73
14,077.0	90.0	180.4	9,767.0	4,577.5	-4,575.0	170.0	1.53
14,172.0	89.6	179.4	9,767.3	4,672.5	-4,670.0	170.1	1.15
14,267.0	89.5	178.8	9,768.1	4,767.5	-4,765.0	171.5	0.63
14,362.0	88.4	180.3	9,769.9	4,862.4	-4,859.9	172.3	1.90
14,457.0	90.6	181.9	9,770.7	4,957.3	-4,954.9	170.4	2.94
14,552.0	90.7	182.1	9,769.6	5,052.2	-5,049.8	167.1	0.17
14,646.0	89.3	180.0	9,769.6	5,146.1	-5,143.8	165.4	2.67

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
14,742.0	89.3	178.9	9,770.9	5,242.1	-5,239.8	166.3	1.18
14,837.0	88.9	179.6	9,772.4	5,337.1	-5,334.8	167.5	0.89
14,932.0	87.8	180.4	9,775.2	5,432.0	-5,429.7	167.5	1.42
15,027.0	87.8	180.1	9,778.9	5,526.9	-5,524.7	167.0	0.27
15,122.0	88.9	180.8	9,781.7	5,621.8	-5,619.6	166.3	1.37
15,217.0	92.6	180.1	9,780.5	5,716.8	-5,714.6	165.6	3.94
15,312.0	91.0	178.2	9,777.5	5,811.7	-5,809.5	167.0	2.59
15,406.0	89.6	177.8	9,777.0	5,905.7	-5,903.5	170.2	1.52
15,501.0	91.4	179.4	9,776.2	6,000.7	-5,998.4	172.5	2.47
15,596.0	86.5	182.4	9,777.9	6,095.6	-6,093.4	171.0	6.05
15,691.0	89.3	183.1	9,781.4	6,190.3	-6,188.2	166.4	3.08
15,786.0	84.6	181.5	9,786.5	6,284.9	-6,282.9	162.6	5.23
15,881.0	86.4	181.1	9,793.9	6,379.6	-6,377.6	160.5	1.88
15,976.0	89.3	181.4	9,797.5	6,474.4	-6,472.5	158.4	3.09
16,071.0	89.9	180.6	9,798.2	6,569.3	-6,567.5	156.7	1.06
16,166.0	89.7	181.0	9,798.5	6,664.3	-6,662.5	155.4	0.43
16,261.0	90.1	181.5	9,798.7	6,759.2	-6,757.5	153.4	0.72
16,355.0	90.0	181.4	9,798.6	6,853.1	-6,851.4	151.0	0.19
16,449.0	87.3	180.2	9,800.8	6,947.0	-6,945.4	149.7	3.20
16,544.0	88.2	180.0	9,804.5	7,041.9	-7,040.3	149.6	1.01
16,638.0	92.0	181.3	9,804.3	7,135.8	-7,134.3	148.6	4.28
16,734.0	91.7	181.1	9,801.2	7,231.7	-7,230.2	146.5	0.44