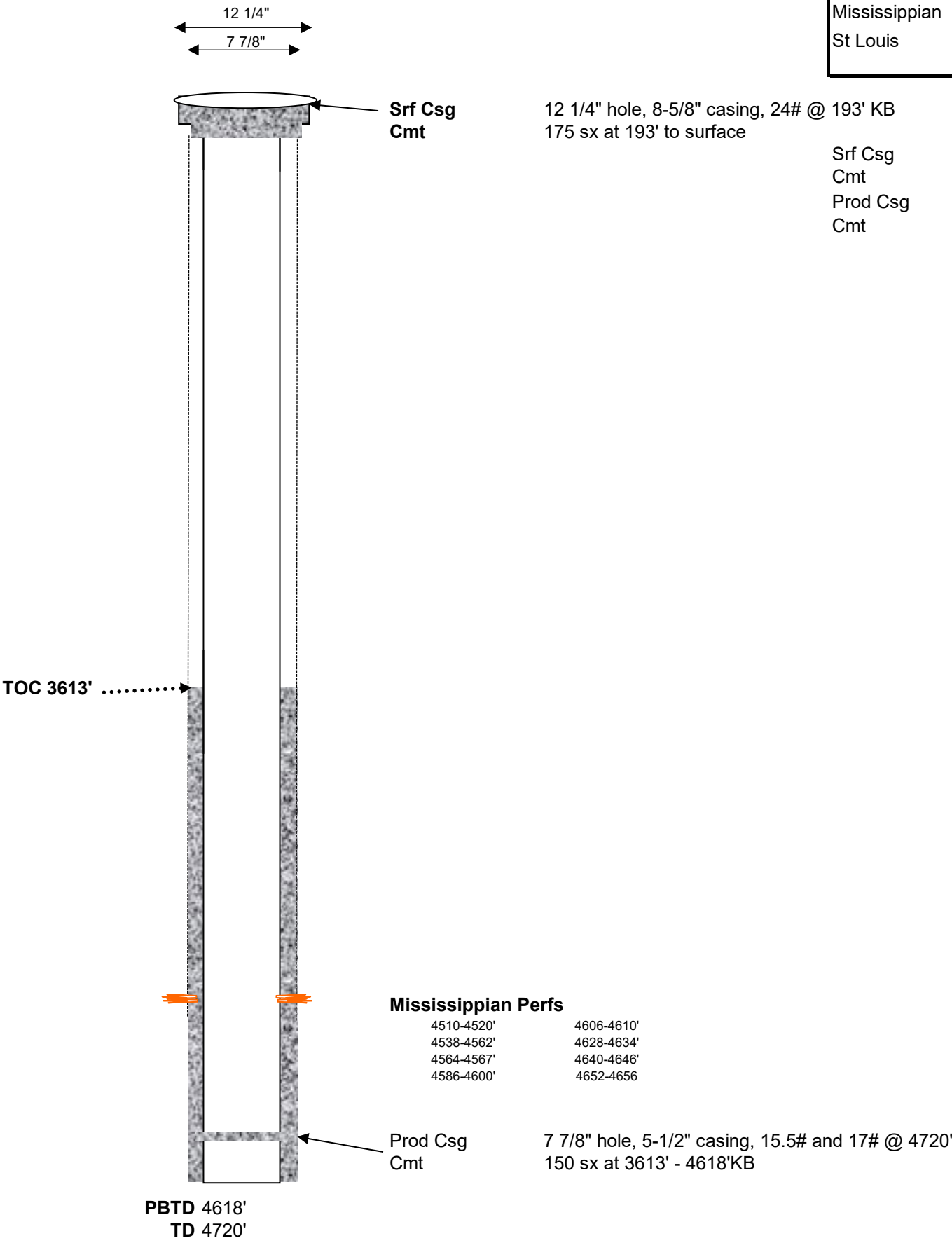


Western Operating Company

General Well Info			
Well Name:	Butler USA #1-X	Field:	Brandon
Diagram Date:	12/26/2024	County:	Kiowa
Srf Location:	SWNE 10 19S45W 6	State:	CO
Spud Date:	8/28/1974	API #:	05-061-06174
GL Elev:	3918'		
Formation Tops			
Zone	Depth	Zone	Depth
Morrow	4346'		
Keyes	4506'		
Mississippian	4520'		
St Louis	4650'		



Srf Csg	12 1/4" hole, 8-5/8" casing, 24# @ 193' KB
Cmt	175 sx at 193' to surface
Prod Csg	7 7/8" hole, 5-1/2" casing, 15.5# and 17# @ 4720'
Cmt	150 sx at 3613' - 4618'KB

TOC Calculation	
15.5# cement slurry density	1.16 cuft/sx
	150 sx
Volume of cement	174 cuft
Piping	5.7737 ft/cuft
Cement height	1004.6238 ft
Casing Set Depth	4618 ft
Calculated TOC	3613 ft