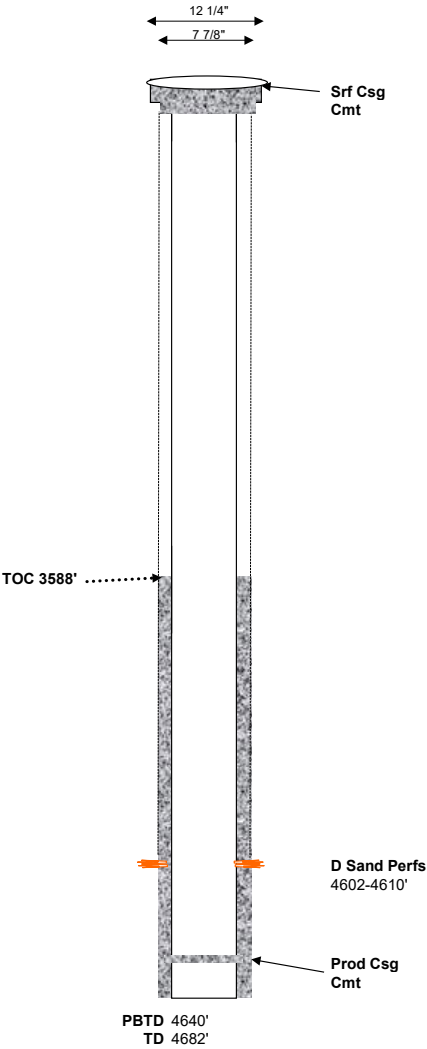


Western Operating Company



12 1/4" hole, 8-5/8" casing, 24# @ unk KB
125 sx at unk' to surface

Srf Csg 12 1/4" hole, 8-5/8" casing, 24# @ unk KB
Cmt 125 sx at unk' to surface
Prod Csg 7 7/8" hole, 5-1/2" casing, 14# @ 4678'
Cmt 125 sx at 3588' - 4678' KB

General Well Info			
Well Name:	Knutzen #2	Field:	Redwing
Diagram Date:	1/22/2025	County:	Washington
Srf Location:	SENE 3 2N52W 6	State:	CO
Spud Date:	4/11/1968	API #:	05-121-08087
GL Elev:	4598'		
Formation Tops			
Zone	Depth	Zone	Depth
Niobrara	3679'	J Sand	4630'
Carlile	4135'		
Greenhorn	4275'		
Bentonite	4447'		
D Sand	4536'		

TOC Calculation		
15# cement	1.51	cuft/sx
slurry density	125	sx
Volume of cement	188.75	cuft
Piping	5.7737	ft/cuft
Cement height	1089.7859	ft
Casing Set Depth	4678	ft
Calculated TOC	3588	ft