CEMENT TREATMENT REPORT

Customer:	St. Croix Operating	Well:	Rocky 1	Ticket:	ICT2068
City, State:		County:	Washington, CO	Date:	6/17/2019
Field Rep:	Tom	S-T-R:	8-3S-50W	Service:	Cement

Downhole Information	
Hole Size:	7.785
Hole Depth:	4100'
Casing Size:	In
Casing Depth:	ft
Tubing / Liner:	In
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	bbls

Slurry	
Weight:	13.8 # / sx
Water / Sx:	6 5/7 gal / sx
Yield:	1 3/7 ft^3 / sx
Bbls / Ft.:	
Depth:	ft
Volume:	bbls
Excess:	%
Total Slurry:	38 bbls
Total Sacks:	150 sx

Cement Blend		
Product	%	#
Class A		8460
Gel		516
CaCl		
Metso		
KolSeal		
PhenoSeal		
Salt		
Poz		4440
	Total	13,416

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
1230pm				Arrivial					
1235pm				Safety meeting					
1240pm				Rig up equip					
145pm	3.0	300.0	20.0	Pump and displace 40sx @ 3900'					
235pm	4.0	300.0	15.0	Pump and displace 40sx @ 3000'					
345pm	3.0	100.0	15.0	Pump and displace 50sx @ 560'					
440pm	2.0		5.0	Pump and displace 15sx @ 60'					
12:00 AM	1.0		3.0	Pump 5sx RH					
5pm				Wash up and rig down					
530pm				Depart					

	CREW	UNIT
Cementer:	Miles Shaw	266.0
Pump Operator:	Alan Ryan	242.0
Bulk #1:		
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
2.6 bpm	233.33 psi	58.00 bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202