CEMENT TREATMENT REPORT

Customer:	Mull Drilling	Well:	Schippers 1-33	Ticket:	ICT2079
City, State:		County:	Sheridan, KS	Date:	6/21/2019
Field Rep:	Ray Brown	S-T-R:	33-10S-31W	Service:	Cement

Downhole Information	
Hole Size:	7.875
Hole Depth:	4680'
Casing Size:	5.5"
Casing Depth:	4667'
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	bbls

Slurry		
Weight:	12/14.8	# / sx
Water / Sx:	15.4/6.6	gal / sx
Yield:	2.56/1.51	ft^3 / sx
Bbls / Ft.:		
Depth:		ft
Volume:		bbls
Excess:		%
Total Slurry:	190	bbls
Total Sacks:	500	sx

Cement Blend		
Product	%	#
Class A		47000
Gel		188
CaCl		846
Metso		564
KolSeal		1000
PhenoSeal		75
Salt		1240
	Total	50,913

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
6pm				Arrivial					
605pm				Safety meeting					
610pm				Rig up equip					
645pm				Run in casing					
910pm				Circulate casing					
1040pm	4.0	400.0	25.0	Pump 200# Calcium and 200#					
				Metso Flush					
11pm	4.0	100.0	15.0	Plug RH 30sx					
1110pm	6.0	400.0	176.0	Pump 270sx Hcon & 200sx H long					
1140pm				Release plug and wash up					
1145pm				Displace plug					
1215am	6.0	1,800.0	111.5	Plug down and held					
1230am				Rig down equip					
1255am				Depart					
				Cement did [redacted] circulate					

	CREW	UNIT
Cementer:	Miles Shaw	73.0
Pump Operator:	Michael Schwickert	230.0
Bulk #1:	Jesse Jones	242.0
Bulk #2:	John Polley	181 / 254

SUMMARY		
Average Rate	Average Pressure	Total Fluid
5 bpm	675.00 psi	327.50 bbls

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