CEMENT TREATMENT REPORT

Customer:	Black Oak Expl.	Well:	Goetsch #1-10	Ticket:	ICT2088
City, State:		County:	Sherman, KS	Date:	6/25/2019
Field Rep:	Arturo	S-T-R:	Sec 5 - T13S - R32W	Service:	Cement

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	390 ft
Casing Size:	8.625 in
Casing Depth:	385 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	23.5 bbls

Slurry	
Weight:	14.8 # / sx
Water / Sx:	6.88 gal / sx
Yield:	1.41 ft^3 / sx
Bbls / Ft.:	0.0735
Depth:	385 ft
Volume:	28.3 bbls
Excess:	120% %
Total Slurry:	60.3 bbls
Total Sacks:	240 sx

Cement Blend		
Product	%	#
Class A	100.0	22560
Gel	2.0	451
CaCl	3.0	677
Metso		
KolSeal		
PhenoSeal		
Salt		
	Total	23,688

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
3:30 PM				Called for job					
5:30 PM				Depart Oakley yard					
6:45 PM				Arrive on locn. Rig drilling 12 14" OH					
				to 390'					
2:25 AM				JSA, discuss moving, spotting & rig-up					
7:00 PM				Move on, spot & rig-up					
7:30 PM				Rig-up complete					
9:15 PM				Rig TD'd hole @ 390'. Cir. & condition hole.					
9:45 PM				Perform wiper trip					
10:20 PM				Rig TOH w/ DP					
10:55 PM				Start to RIH w/ casing					
11:35 PM				Casing @ setting depth					
11:40 PM		100.0		Circulate & condition hole					
11:47 PM	3.5	100.0	5.0	Pump H2O ahead					
11:49 PM	5.0	350.0	60.0	Mix & pump 240sx cement @ 14.8#					
				Y - 1.41cuft/sk, MW - 6.88g/sk					
12:02 AM				Cement to surface, 60bbl cement away					
12:02 AM	3.5	200.0	23.5	Displ. w/ H2O					
12:08 AM				Shutdown. End Job					
12:15 AM				JSA, discuss racking up & moving off					
12:45 AM				Depart locn					
				Note: Circulated approx 23.5bbl good					
				cement to surface.					
				Thanks for calling Hurricane Services					

	CREW	UNIT
Cementer:	Scott Green	74
Pump Operator:	Josh Mosier	231
Bulk #1:	Kale Ochs	181 / 254
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4 bpm	187.50 psi	88.50 bbls

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