



**CEMENT TREATMENT REPORT**

Customer: <b>Black Oak Expl.</b>	Well: <b>MW &amp; MS Fams #1-16</b>	Ticket: <b>ICT2202</b>
City, State:	County: <b>Rawlins, KS</b>	Date: <b>8/1/2019</b>
Field Rep: <b>Arturo</b>	S-T-R: <b>Sec16 - T2S - R31W</b>	Service: <b>Cement</b>

Downhole Information		Slurry		Cement Blend		
Hole Size:	12.25 in	Weight:	14.8 # / sx	Product	%	#
Hole Depth:	274 ft	Water / Sx:	6.88 gal / sx	Class A	100.0	21150
Casing Size:	8.625 in	Yield:	1.41 ft <sup>3</sup> / sx	Gel	2.0	423
Casing Depth:	272.21 ft	Bbls / Ft.:	0.0735	CaCl	3.0	635
Tubing / Liner:	in	Depth:	274 ft	Metso		
Depth:	ft	Volume:	20.14 bbls	KolSeal		
Tool / Packer:		Excess:	180 %	PhenoSeal	0.25#/sk	56
Depth:	ft	Total Slurry:	56.5 bbls	Salt		
Displacement:	16 bbls	Total Sacks:	225 sx			
				Total	22,264	

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
16:00				Called for job					
18:45				Depart Oakley yard					
20:15				Arrive on locn. Rig performing wiper trip					
20:20				JSA, discuss moving, spotting & rig-up					
20:25				Rig TOH w/ DP					
20:30				Move on, spot & rig-up					
20:50				Rig-up complete					
20:55				Start to RIH w/ casing					
21:50				Casing @ setting depth					
21:52		100.0		Circulate & condition hole					
22:02	3.4	80.0	5.0	Pump H2O ahead					
22:04	3.2	150.0	56.5	Mix & pump 225sx cement @ 14.8# Y - 1.41cuft/sk, MW - 6.88g/sk					
22:22				Cement to surface, 56bbl cement away					
22:22	3.3	125.0	16.0	Displ. w/ H2O					
22:28				Shutdown. End Job					
22:30				Wash-up pumps & lines					
22:35				JSA, discuss racking up & moving off					
22:40				Rig down & rack-up equipment					
23:00				Depart locn					
				Note: Circulated approx 16bbl good cement to surface.					
				Thanks for calling Hurricane Services					

CREW		UNIT	SUMMARY		
Cementer:	Scott Green	74	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Josh Mosier	231	3.3 bpm	113.75 psi	77.50 bbls
Bulk #1:	Kale Ochs	242			
Bulk #2:					