CEMENT TREATMENT REPORT

Customer:	Murfin Drilling Co	Well:	Smith A 1-21	Ticket:	ICT2100
City, State:	Wichita,KS	County:	Cheyenne	Date:	~~6/26/2019~~ 6/27
Field Rep:	Jay	S-T-R:	21-2-37	Service:	Cement

Downhole Information	
Hole Size:	12.13
Hole Depth:	369.5
Casing Size:	8.625
Casing Depth:	369
Casing weight	24
Depth:	
Tool / Packer:	
Depth:	
Displacement:	22

Slurry	
Weight:	14.8 # / sx
Water / Sx:	6 7/8 gal / sx
Yield:	1 2/5 ft^3 / sx
Bbls / Ft.:	0.0637
Depth:	369 ft
Volume:	bbls
Excess:	125% %
Total Slurry:	71.5 bbls
Total Sacks:	285 sx

Cement Blend		
Product	%	#
Class A	100.0	26790
Gel	2.0	536
CaCl	3.0	804
Metso		
KolSeal		
PhenoSeal	0.3	80
Salt		
	Total	28,210

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
5:00 PM				Arrive on location					
5:05 PM				Safety meeting					
5:10 PM				Rig up equipment					
7:20 PM				Casing on bottom					
7:25 PM				Rig circulates					
7:35 PM	3.0	200.0	5.0	Water ahead					
7:40 PM	5.0	250.0	72.0	Pump 285 sacks at14.8ppg,1.41 yield					
7:50 PM	5.0	250.0	22.0	Displace					
8:00 PM		150.0		Shut in well					
8:10 PM				Wash up equipment					
8:30 PM				Depart location					
				5 bbls to pit					

	CREW	UNIT
Cementer:	Dane Retzloff	78
Pump Operator:	Josh Mosier	230
Bulk #1:	Kale Ochs	181/264
Bulk #2:	Alan Ryan	

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.333333 bpm	212.50 psi	99.00 bbls

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

CEMENT TREATMENT REPORT

Customer:	Murfin Drilling INC	Well:	Smith A 2-21	Ticket:	ICT2118
City, State:	McDonald,KS	County:	Rawlins Co	Date:	7/719
Field Rep:	Nathan Witt	S-T-R:	21-2-37w	Service:	Cementing

Downhole Information	
Hole Size:	7 7/8
Hole Depth:	5100
Casing Size:	5.5
Casing Depth:	5096
Tubing / Liner:	
Depth:	
Tool / Packer:	
Depth:	
Displacement:	120

Slurry	
Weight:	12/14.5 # / sx
Water / Sx:	15.46/7.41 gal / sx
Yield:	2.56/1.63 ft^3 / sx
Bbls / Ft.:	0.0238
Depth:	ft
Volume:	
Excess:	
Total Slurry:	167
Total Sacks:	500

Cement Blend		
Product	%	#
Class A	500.0	51700
Gel		
CaCl		987
Metso		1034
KolSeal		1000
PhenoSeal		87
Salt		1236
	Total	56,044

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
11:00 AM				Arrive					
11:05 AM				Safety Meeting					
11:10 AM				Rig up equipment					
11:30 AM				Rig Runs Casing					
12:00 PM				Circulate on JT 61					
1:15 PM				Casing on bottom					
				Ball thru @ 400 psi					
2:20 PM	3.0	330.0	12.0	Pump 500 gals of mudflush					
2:25 PM	3.0	100.0	8.0	Plug MH and RH with 50 sks					
2:35 PM	5.5	200.0	114.0	Mix H-Con 250 sks					
2:50 PM	5.0	230.0	53.0	Mix H-Long 200 sks					
3:05 PM				Wash up					
3:10 PM	5.5	1,700.0	120.0	Displace					
				Final lift @ 1700 Plug landed @ 2200					
3:45 PM				Plug Held. Final wash up					
4:15 PM				Rig down and depart					

		UNIT
Cementer:	Dane Retzloff	78
Pump Operator:	Josh Mosier	230
Bulk #1:	Kale Ochs	242
Bulk #2:	Alan Ryan	181/264

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.4 bpm	512.00 psi	307.00 bbls

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