



CEMENT TREATMENT REPORT

Customer: Murfin Drilling Co	Well: Jones 'A' #4-17	Ticket: ICT2392
City, State: Wichita	County: Cheyenne, KS	Date: 9/12/2019
Field Rep: Jay	S-T-R: Sec17 - T1S - R37W	Service: Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	295 ft
Casing Size:	8 5/8 in
Casing Depth:	295 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	17.6 bbls

Calculated Slurry	
Weight:	275 # / sx
Water / Sx:	6.88 gal / sx
Yield:	1.41 ft ³ / sx
Bbls / Ft.:	0.0735
Depth:	295 ft
Annular Volume:	21.68 bbls
Excess:	220%
Total Slurry:	69.1 bbls
Total Sacks:	275 sx

Product	% / #	#
Class A	100.00	25850
Poz		
Gel	2.00	517
CaCl	3.00	776
Gypsum		
Metso		
Koi Seal		
Flo Seal	0.25	65
Salt (bww)		

Total 27,207

TIME	RATE	PSI	BBLs	REMARKS
13:45				Called for Job
15:00				Depart Oakley yard
17:00				Arrive on locn
17:05				JSA, discuss moving on, spotting & rigging up equipment
17:10				Move on, spot & rig up equipment
17:30				Rig-up complete. Rig TD 12 1/4" OH @ 295', circulate & condition hole.
18:00				Rig TOH w/ DP
18:40				Rig RIH w/ csg
19:20				Casing @ setting depth
19:25	6.5	75.0		Circulate & condition hole
19:39	3.5	85.0	5.0	Pump water
19:42	3.3	180.0	69.1	Mix & pump 200sx @ 14.8ppg. Y - 1.41cuft/sk, MW - 6.88g/sk
20:09	4.4	190.0		Displace w/ water
20:10	4.4	200.0	3.0	Cement returns to surface Note: 14bbls / 55sx of cement circulated to surface.
20:13			17.6	Shutdown & shut-in
20:15				Wash-up pumps & lines
20:25				JSA, discuss rigging down & racking up equipment
20:30				Rig down & rack up equipment
20:55				JSA, discuss journey management
21:00				Depart locn
				Thanks for calling Hurricane Services Inc

CREW		UNIT	SUMMARY		
Cementer:	Scott Green	74	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jesse Jones	230	4.42 bpm	146 psi	95 bbls
Bulk #1:	Neil	242			
Bulk #2:	Josh Mosier				



CEMENT TREATMENT REPORT

Customer: Murfin Drilling Co	Well: Jones 'A' #4-17	Ticket: ICT2445
City, State: Wichita, KS	County: Cheyenne, KS	Date: 9/21/2019
Field Rep: Jay / Nathan	S-T-R: Sec17 - T1S - R37W	Service: Production

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	4770 ft
Casing Size:	5.5 in
Casing Depth:	4761.08 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packoff:	
Depth:	ft
Displacement:	112.8 bbls

Calculated Slurry - Lead	
Weight:	12.00 # / sx
Water / Sk:	15.46 gal / sx
Yield:	2.56 ft ³ / sx
Bbls / Ft.:	0.0309
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	137.0 bbls
Total Sacks:	300 sx

Product	% / #	#
Class A	100.00	28200
Poz		
Gel		
CaCl	3.00	846
Gypsum	2.00	564
Metso	2.00	564
PhenoSeal	0.25	75
Flo Seal		
Sal (bww)		
Total		30,249

Calculated Slurry - Tail	
Weight:	14.80 # / sx
Water / Sk:	6.61 gal / sx
Yield:	1.60 ft ³ / sx
Bbls / Ft.:	0.0309
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	63.0 bbls
Total Sacks:	200 sx

Product	% / #	#
Class A	100.00	18800
Poz		
Gel	1.00	188
CAF-38	0.25	47
Gypsum	5.00	940
CAL-160	0.60	113
Kel Seal		
Gilsonite	5.00	1000
Sal (bww)	10.00	1101
Total		22,189

TIME	RATE	PSI	BBLs	REMARKS
6:00				Call out
10:30				Deplan Oakley yard
12:45				Arrive on locn. Rig TOH w/ DP & laying down same
12:50				JSA, discuss moving on, spotting & rigging up equipment
13:00				Move on, spot & rig-up equipment
13:30				Rig-up complete. Wait on rig.
15:25				Rig laydown kelly, rathole & mousehole
16:05				Rig-up casing crew
16:30				Start to RIH w/ 5.5" 15.5# casing
18:30				Casing @ setting depth
18:50	6.5	300.0		Circulate & condition hole
19:32	3.0	200.0	5.0	Pump H2O ahead
19:35		2,750.0		Pressure test
19:37	4.0	200.0	10.0	Pump mudflush spacer
19:39	3.0	220.0	5.0	Pump H2O spacer
19:44			13.0	Plug rathole w/ 30sx cement @ 12.0ppg
19:48			9.0	Plug mousehole w/ 20sx cement @ 12.0ppg
19:53	4.5	250.0	137.0	Mix & pump 300sx lead slurry @ 12.0ppg. Y - 2.56cuft/sk; MR - 15.46g/sk
20:25	4.5	250.0	55.0	Mix & pump 200sx tail slurry @ 14.8ppg. Y - 1.60cuft/sk; MR - 6.61g/sk
20:45				Shutdown. Wash-up pumps & lines. Release latchdown plug
20:50	5.6	200.0		Pump displacement
21:10	2.5	1,200.0	100.0	Slow rate
21:16		2,050.0	112.8	Bump plug
21:18				Bleed off. Plug latched. 1/2bbl back. Cement returns to cellar
21:20				Wash-up pumps & lines to pit
21:35				JSA, discuss rigging down & racking up equipment
21:40				Rig down & rack up equipment
22:10				JSA, discuss journey management
22:15				Depart locn
				Thanks for calling Hurricane Services Inc

CREW	UNIT	SUMMARY		
Operator: Scott Green	74	Average Rate	Average Pressure	Total Fluid
Pump Operator: Michael Rebarehek	230	4.2 bpm	770 psi	447 bbls
Tool J: Neil White	104 / 256			
Unit #2: Kale Ochs	742			