CEMENT TREATMENT REPORT

Customer:	Murfin Drilling	Well:	Banister A 3-22	Ticket:	ICT2013
City, State:	Bird City, KS	County:	Cheyenne, KS	Date:	6/19/2019
Field Rep:	Arturo	S-T-R:	22-2S-37W	Service:	Cement

Downhole Information	
Hole Size:	12.25
Hole Depth:	373'
Casing Size:	8.625"
Casing Depth:	371
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	22.25

Slurry	
Weight:	14.8 # / sx
Water / Sx:	6 5/7 gal / sx
Yield:	1 2/5 ft^3 / sx
Bbls / Ft.:	
Depth:	ft
Volume:	bbls
Excess:	120% %
Total Slurry:	75 bbls
Total Sacks:	300 sx

Cement Blend		
Product	%	#
Class A		28200
Gel		564
CaCl		864
Metso		
KolSeal		
PhenoSeal		75
Salt		
	Total	29,703

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
1am				Arrivial					
105am				Safety meeting					
110am				Rig up equip					
220am				Circulate casing					
230am	6.0	300.0	97.3	Pump cement and displace					
255am				Shut in					
				Cement did circulate 5 bbls					

	CREW	UNIT
Cementer:	Miles Shaw	73.0
Pump Operator:	Josh Mosier	230.0
Bulk #1:	John Polley	181.0
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
6 bpm	300.00 psi	97.25 bbls

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

CEMENT TREATMENT REPORT

Customer:	Murfin Drilling INC	Well:	Banister A 3-22	Ticket:	ICT2027
City, State:	McDonald,KS	County:	Cheyenne	Date:	5/28/2019
Field Rep:	Troy Gonzales	S-T-R:	22-2-37	Service:	Cementing

Downhole Information	
Hole Size:	7 7/8
Hole Depth:	4950
Casing Size:	5.5
Casing Depth:	4947
Tubing / Liner:	
Depth:	
Tool / Packer:	
Depth:	
Displacement:	117

Slurry	
Weight:	12/14.8 # / sx
Water / Sx:	15.46/7.41 gal / sx
Yield:	2.56/1.50 ft^3 / sx
Bbls / Ft.:	0.0238
Depth:	ft
Volume:	
Excess:	
Total Slurry:	191
Total Sacks:	500

Cement Blend		
Product	%	#
Class A	500 SKS	
Gel		
CaCl		
Metso		
KolSeal		
PhenoSeal		
Salt		
	Total	-

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
10:00 PM				Arrive on location					
10:05 PM				Safety Meeting					
10:10 PM				Rig up					
11:40 PM				Run Casing					
12:50 AM				Circulate 30 mins					
2:00 AM				Casing on bottom. Circulate					
3:10 AM	6.0	350.0	12.0	Mix 500 Gallons of mudflush					
3:20 AM	3.0	200.0	23.0	Plug RH and MH with 60 sks					
3:35 AM	7.0	400.0	137.0	Mix 250 sks of H Con					
3:45 AM	7.0	450.0	54.0	Mix 200 sks of H Long					
3:50 AM	6.5	2,400.0	117.0	Displace					
4:30 AM				Final Lift 2000 Plug landed @ 2400					
4:45 AM				Wash up					
5:00 AM				Rig down					
5:15 AM				Depart					

		UNIT
Cementer:	Dane Retzloff	78
Pump Operator:	Josh Mosier	230
Bulk #1:	Kale Ochs	242
Bulk #2:	Michael Rebarchek	181/254

SUMMARY		
Average Rate	Average Pressure	Total Fluid
5.9 bpm	760.00 psi	343.00 bbls

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Wichita, KS 67202

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CEMENT TREATMENT REPORT

Customer:	Murfin Drilling	Well:	Banaster A 3-22	Ticket:	ICT2203
City, State:		County:	Cheyenne, KS	Date:	8/1/2019
Field Rep:	Troy	S-T-R:	22-2S-37W	Service:	cement

Downhole Information	
Hole Size:	in
Hole Depth:	ft
Casing Size:	5.5"
Casing Depth:	ft
Tubing / Liner:	2.375
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	17.25

Slurry	
Weight:	15.2 # / sx
Water / Sx:	5 3/4 gal / sx
Yield:	1 1/4 ft^3 / sx
Bbls / Ft.:	
Depth:	ft
Volume:	bbls
Excess:	%
Total Slurry:	34 bbls
Total Sacks:	155 sx

Cement Blend		
Product	%	#
Class A		
Gel		
CaCl		
Metso		
KolSeal		
PhenoSeal		
Salt		
	Total	-

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
905am				Arrivial					
910am				Safety meeting					
915am				Rig up equip					
1010am	3.0	2,000.0	10.0	Test tools 2000#					
1015am	2.0		7.0	Spot sand					
1030am				Wait for sand to fall					
				Back side would not hold @ 300#					
				Between 1st & 2nd perts					
				Pull up to 4302' to squeeze					
1220pm	2.0	500.0	11.8	Load and pressure BS to 500#					
1255pm	2.0	1,000.0	9.0	Injection rate 2bbl/min @ 1000#					
110pm	1.5	500.0	34.0	Mix 75sx class A with fluid loss tailed					
				in with 80sx neat class A					
130pm			10.0	Shut down clear pump and lines					
134pm	0.5	1,500.0	17.3	Start displacement					
220pm		1,500.0		Wait on cement					
240pm			0.3	Release pressure on cement held					
245pm	3.0	300.0	60.0	Reversed out ot pit					
330pm	0.5	500.0	2.0	Pull 2 jnts pressure to 500 shut in					
340pm				Wash up and rig down equip					
415pm				Depart					

	CREW	UNIT
Cementer:	Miles Shaw	73.0
Pump Operator:	Michael Rebarchek	231.0
Bulk #1:	John Polley	180 / 250
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
1.8125 bpm	975.00 psi	161.25 bbls

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