



CEMENT TREATMENT REPORT

Customer:	Murfin Drilling CO	Well:	Henderson G #7	Ticket:	ICT242434
City, State:		County:	Ellis KS	Date:	9/19/2019
Field Rep:	Andy Dinkel	S-T-R:	27/11S/18W	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	304 ft
Casing Size:	8 5/8 in
Casing Depth:	302 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	18.0 bbbls

Calculated Slurry	
Weight:	14.8 # / sx
Water / Sx:	6.88 gal / sx
Yield:	1.41 ft ³ / sx
Bbls / Ft:	0.0637
Depth:	302 ft
Annular Volume:	63 bbls
Excess:	120%
Total Slurry:	63.0 bbls
Total Sacks:	250 sx

Product	% / #	#
Class A	100%	23500
Poz		
Gel	2%	470
CaCl	3%	705
Gypsum		
Metso		
Kof Seal		
Flo Seal	.25 #	63
Salt (bww)		
		Total

TIME	RATE	PSI	BBLs	REMARKS
8:45 PM				Arrive on location
8:55 PM				Safety meeting
9:00 PM				Rig up
9:16 PM				Walking
11:16 PM				Run Casing
12:00 AM				Break Circulation
12:30 AM	3.5	190.0	63.0	Mix 250 sxs
12:40 AM	3.5	180.0	18.0	Displace
12:45 AM		300.0		Shut in well
1:00 AM				Rig down equipment
1:15 AM				Depart

CREW		UNIT	SUMMARY		
Cementer:	Walt	86	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jesse	230	3.5 bpm	223 psi	81 bbls
Bulk #1:	Corey	294			
Bulk #2:					



CEMENT TREATMENT REPORT

Customer: Murfin Drilling Co	Well: Henderson 'G' #7	Ticket: ICT2463
City, State: Wichita, KS	County: Ellis, KS	Date: 9/26/2019
Field Rep: Craig Hutchison	S-T-R: Sec27 - T11S - R18W	Service: DV Production

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	3711 ft
Casing Size:	5.5 in
Casing Depth:	3710 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV Tool
Depth:	1400 ft
Displacement:	bbbls

Calculated Slurry	
Weight:	12.00 # / sx
Water / Sx:	15.46 gal / sx
Yield:	2.56 ft ³ / sx
Bbbls / Ft.:	0.0309
Depth:	ft
Annular Volume:	0 bbbls
Excess:	
Total Slurry:	0.0 bbbls
Total Sacks:	325 sx

Product	% / #	#
Class A	100.00	30550
Poz		
CaCl	3.00	917
Gypsum	2.00	611
Melso Beads	2.00	611
CAL-160		
Kol Seal		
PhonoSeal	0.25	81
Salt (bww)		
Total		32,770

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	3711 ft
Casing Size:	5.5 in
Casing Depth:	3710 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV Tool
Depth:	1400 ft
Displacement:	bbbls

Calculated Slurry	
Weight:	14.8 # / sx
Water / Sx:	6.61 gal / sx
Yield:	1.50 ft ³ / sx
Bbbls / Ft.:	0.0309
Depth:	ft
Annular Volume:	0 bbbls
Excess:	
Total Slurry:	0.0 bbbls
Total Sacks:	150 sx

Product	% / #	#
Class A	100.00	14100
Poz		
Gel	1.00	141
CAF-38	0.25	35
Gypsum	5.00	705
CAL-160	0.60	85
Kol Seal	5.00	750
Flo Seal		
Salt (bww)	10.00	825
Total		16,641

TIME	RATE	PSI	BBLs	REMARKS
9:00				Call Out
13:30				Depart Oakley, KS
16:30				Arrive on locn. Rigging up casing crew
16:10				Start to RIH w/ 5 1/2" casing
16:30				Pump & bulk on locn
17:30				Make up DV tool
18:00				Casing @ setting depth
18:20		400.0		Circulate & condition hole
19:20	4.0	250.0	5.0	Pump water spacer
19:21		3,000.0		Pressure test
19:23	2.5	190.0	10.0	Pump mudflush spacer
19:26	2.5	180.0	5.0	Pump water spacer
19:28	5.0	300.0	23.0	Mix & pump 80sx lead cement @ 12.0ppg. Y - 2.56cuft/sk; MR - 15.46g/sk
19:33	4.0	180.0	40.0	Mix & pump 160sx tail cement @ 14.8ppg. Y - 1.5cuft/sk; MR - 6.61g/sk
19:45				Shutdown. Wash-up pumps & lines. Load first stage shut-off dart
19:51	5.0	170.0		Displace w/ water & mud
20:00	6.0	670.0	60.0	Start mud
20:05	2.5	600.0	80.0	Slow rate
20:08		960.0	87.0	Bump plug. Final circulating pressure - 350psi
20:10				Bleed off. 1/2bbl back
20:12				Drop shifting tool & preload shutoff plug



20:32		710.0		Pressure up & open DV tool w/ 710psi
20:33	4.0	100.0	10.0	Confirm tool open
20:37				Rig continues to circulate condition hole
21:36			13.0	Plug rathole w/ 30sx @ 12.0ppg
21:42	6.0	270.0	111.0	Mix & pump 245sx cement @ 12.0ppg. Y - 2.66cuft/sk; MR - 15.46g/sk
22:00				Release shutoff plug
22:06	6.6	280.0		Displace w/ water
22:12	3.0	330.0	20.0	Slow rate
22:14		1,730.0	33.0	Bump plug. Final circulating pressure - 400psi
22:16				Bleed off. 1/4bbl back
22:20				Wash-up pumps & lines
22:35				Rig down & rack up equipment
23:00				Depart locn
				Note: Circulated 10bbbls good cement to surface
				Thanks for calling Hurricane Services Inc.

CREW		UNIT	SUMMARY		
Cementer:	Scott Green	74	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael Rebarchek	230	4.25 bpm	670 psi	444 bbbls
Bulk #1:	Neil White	194 / 254			
Bulk #2:	John Polley	181 / 266			

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



CEMENT TREATMENT REPORT

Customer: MDC	Well: Henderson G7	Ticket: ICT 2696
City, State:	County: Ellis, KS	Date: 11/1/2019
Field Rep: Craig H.	S-T-R:	Service: Squeeze

Downhole Information	
Hole Size:	in
Hole Depth:	ft
Casing Size:	5.5 in
Casing Depth:	ft
Tubing / Liner:	2.875 in
Depth:	ft
Tool / Packer:	3632
Depth:	ft
Displacement:	bbls

Calculated Slurry	
Weight:	12.6 # / sx
Water / Sx:	12.96 gal / sx
Yield:	2.24 ft ³ / sx
Bbls / Ft.:	0.0309
Depth:	350 ft
Annular Volume:	10.815 bbls
Excess:	
Total Slurry:	33.9 bbls
Total Sacks:	85 sx

Product	% / #	#
Class A	100.00	7990
Poz		
Gel	2.00	160
CaCl	3.00	240
Gypsum	2.00	160
Metso	2.00	160
Kol Seal		
Flo Seal	0.25	20
Salt (bww)		
Total		8,729

TIME	RATE	PSI	BBLs	REMARKS
8:30 AM				On location safety meeting. Spot in and rig up. Wait on rig crew.
9:18 AM	2.3	750.0	20.0	Packer set at 3180'. Pump water and clear annular of casing and hole. Held 260 PSI. Release back 1 BBL water
9:33 AM				Pull tubing out of hole and remove packer. Run back in with stinger for retainer
12:36 PM	1.8	750.0	20.0	Sting into retainer. Get injection rate
1:05 PM	1.3	150.0	29.9	Mix and pump 75 sacks H-Con cement @ 12.6 PPG
1:24 PM				25 BBL into cement pressure increase to 750 PSI
1:30 PM	3.0	50.0	10.0	Stop cement and wash pump and lines.
1:37 PM	1.3	500.0		Start displacement. 4.6 BBL into displacement catch cement and pressure increase
	0.5	1,000.0	20.0	Pressure slowly increase throughout displacement. Rate slowed to .5 BPM @ 1000 PSI
				20 BBL out (1 BBL short of full displacement) stop. Get ready to unsting from retainer and reverse out.
2:03 PM	2.6	350.0	60.0	Reverse out 60 BBL water the short way. 2.5 BBL cement to surface.
				Pull tubing out of hole and run back in with packer
6:10 PM				Packer set at 3180'. Get an injection rate. Pressure up to 1000# and slowly bleed off
6:25 PM	2.5	50.0	4.0	Reset packer at 3319' and spot 10 sack H-Con plug = 185' plug
6:35 PM	3.0	275.0	32.0	Pull tubing 2890' and reverse out to clean up around packer
6:14 PM	0.5	1,000.0	0.5	Pull one joint and set packer. Start staging in cement. Wait 30 min. Pressure to 1000 slowly bleed off
8:44 PM	0.3	1,000.0	0.2	Start pumping. Pressures up and holds 1000 PSI
6:50 PM				Shut well in with 750 PSI
				Rig down and leave location. Thanks

CREW	UNIT	SUMMARY		
Cementer: Kevin	265	Average Rate	Average Pressure	Total Fluid
Pump Operator: Garrett S	241	1.71818 bpm	634 psi	197 bbls
Bulk #1: Jake H	77			
Bulk #2:				

