



HURRICANE SERVICES INC

Customer:	Murfin Drilling inc	Date:	4/19/2018	Ticket No.:	10090.6?
Field Rep:	John Gerstner				
Address:					
City, State:					
County, Zip:					

Field Order No.:	100906	Open Hole:		Perf Depths (ft)	
Well Name:	Popp # 114	Casing Depth:	4157		
Location:	Morland ks	Casing Size:	5.5" 15.5 bft		
Formation:		Tubing Depth:			
Type of Service:	DV 2 stage cement	Tubing Size:			
Well Type:	oil	Inner Depth:			
Age of Well:	new	Liner Size:			
Packer Type:		Liner Top:			
Packer Depth:		Liner Bottom:			
Treatment Via:	Casing	Total Depth:			
				Total Perfs	0

	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (ols)	FLUID (lbs)
	FLUID	N2O2	STP	ANNULUS				
					4157' of 5.5" 15.5 bft casing - 0238 bb/R 22' shoe - 62 bbl			
					shoe capacity, OV tool @ 2295' - 56 bbls to OJ' tool			
					Latchdown collar @ 4138' - 98.6 bbls to collar			
					7 7/8" open hole annulus - 0309 bb/U 18625" cased hole @ 218'			
					Open hole calculated capacity - 217 bbls			
					1st stage tail cement HOC - 1547 6' TOC - 26094'			
					turbolizers - jls - 8,5,7,9,11,13,15,17 Baskel 44 , DI' tool 46			
1:00 AM					Arrived on location			
1:05 AM					Safety meeting			
1:10 AM					Rig up equipment			
5:09 AM	3		1800		Pump 3 bbls H2O ahead			3.00
6:10 AM	3.0		1800		Pump 12 bbls mud flush			1200
5:14 AM	3.0		140.0		Pump 3 bbls H2O ahead			300
6:16 AM	30		140.0		Start cement III 14.8 ppg			
5:22 AM	5.0		250.0		23 bbls cement away			
5:30 AM					End cement S/O wash pumps and lines			48.00
5:51 AM	3.0		40.0		Start displacement			
6:2 AM	2.0		40.0		Slow down @ 44 bbls away to pump bottom plug through dv ltoc			
TOTAL:						-		3720

SUMMARY

Max FI Rate	Avg FI Rate	Max PSI	Avg PSI
SO	3.4	1200.0	320.5

PRODUCTS USED
 1st stage 235sacks
 HL Long, 1% gel, 5% gypsum, 0.25% defoamer, 0.6% fluid loss, 10% salt, 5#/sk gilsonite.
 2nd stage 325 sacks hCon- 3%CC, 2% gypsum, 2% metso, 0.5#/sk phenoseal

Treat or Fennis Garduno

Customer: SJ 4.18.18