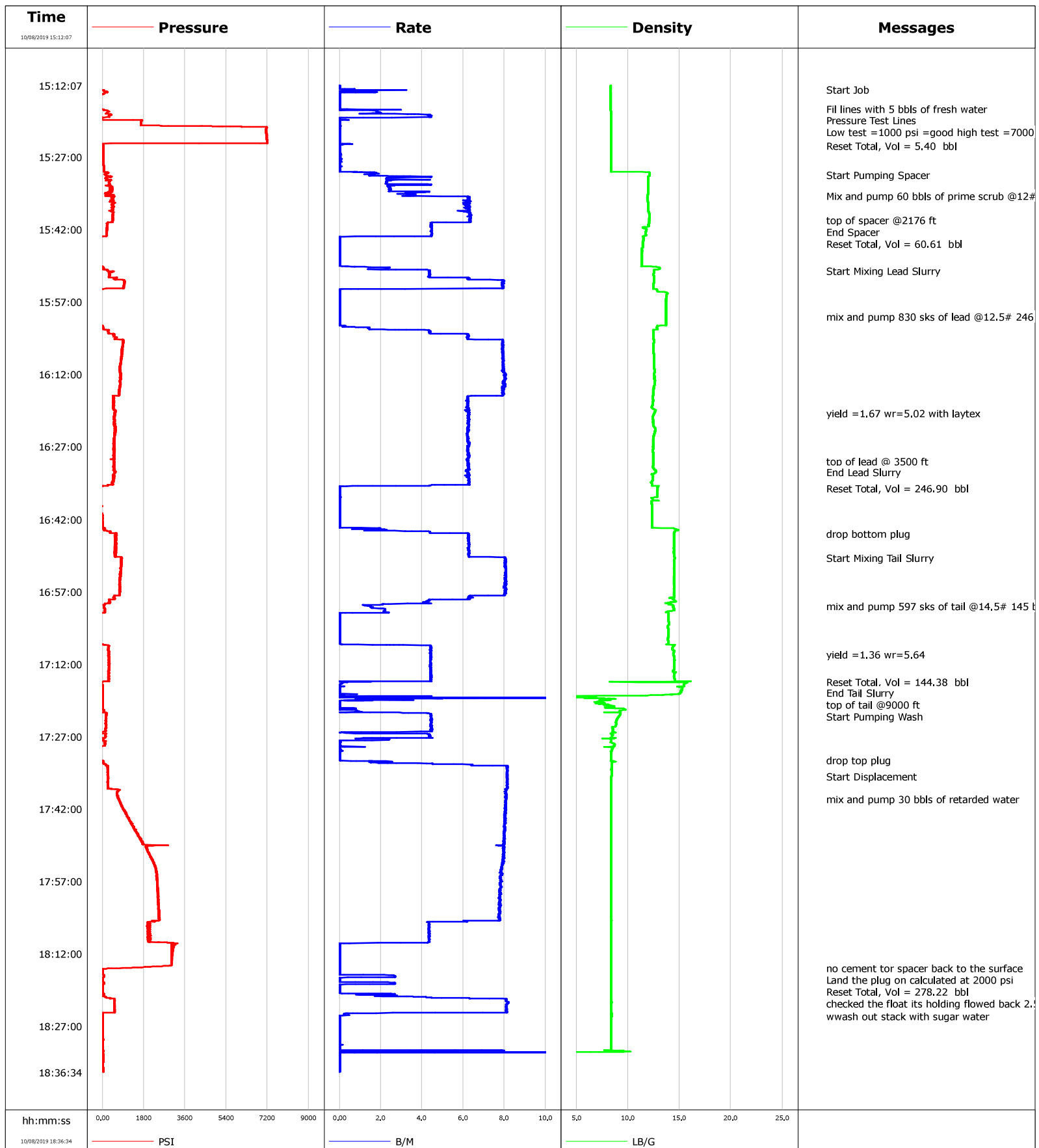
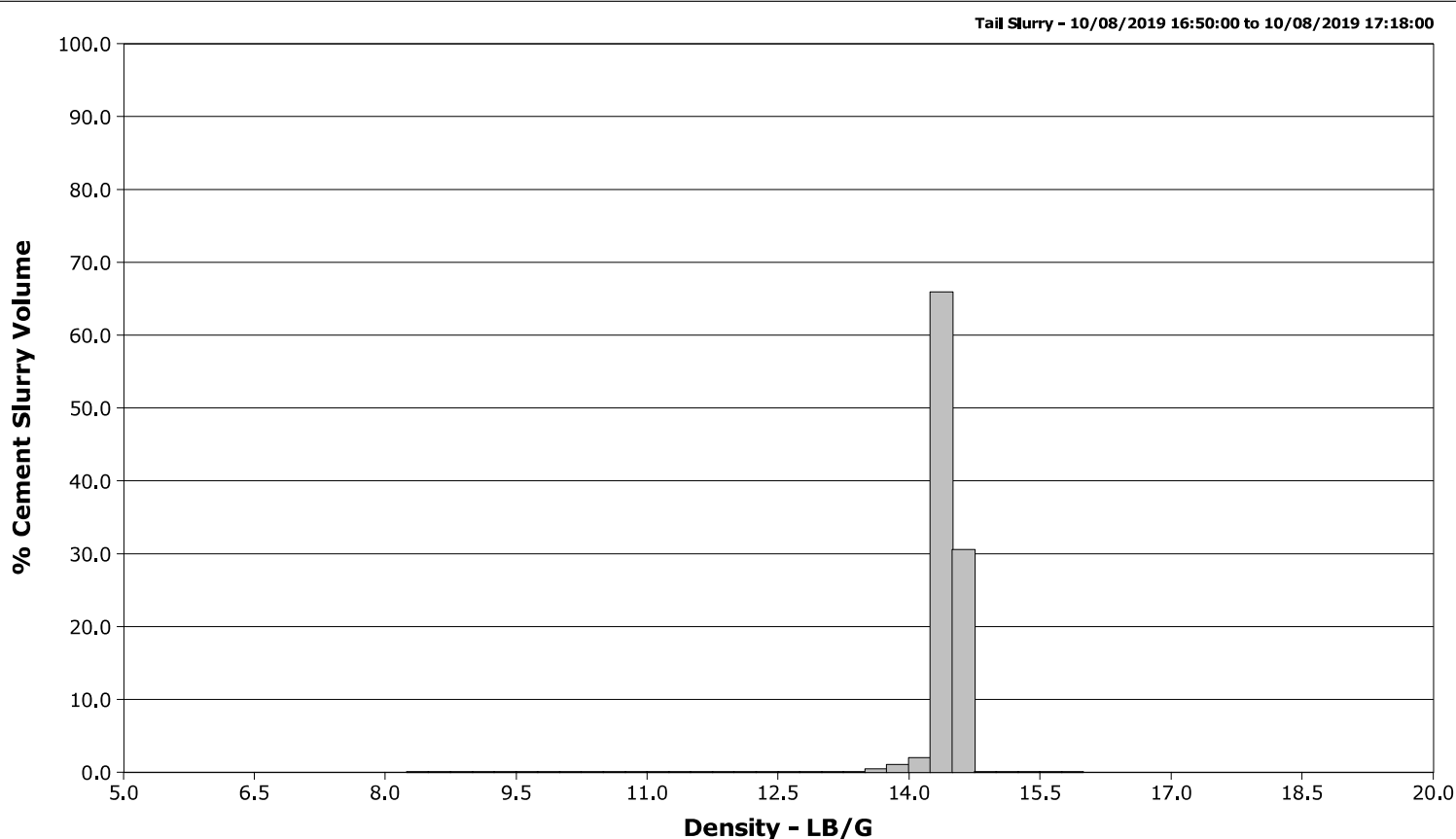
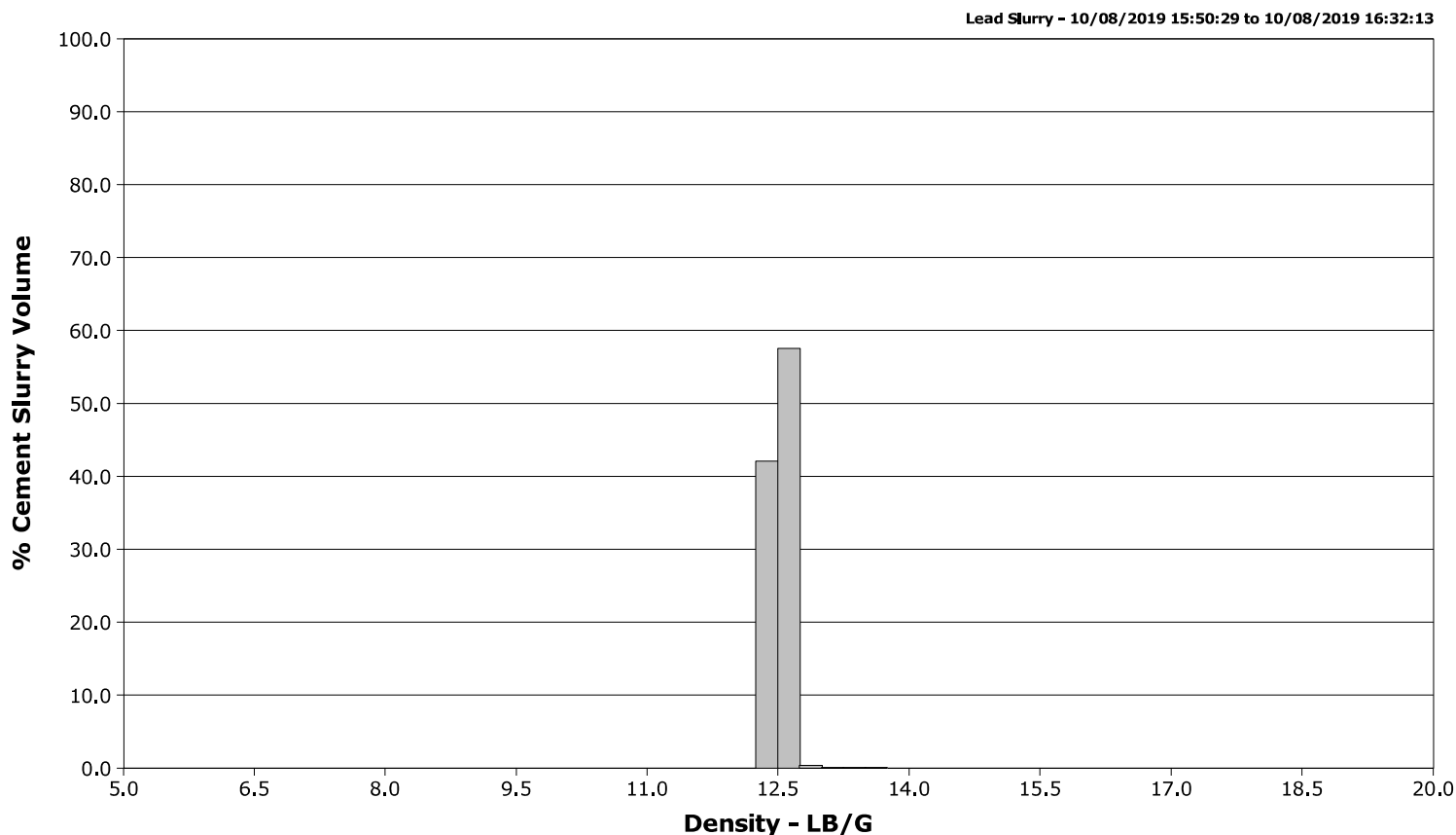


Well	HINGLEY	Client	CRESONE
Field		SIR No.	3067252
Engineer	ALBERT SNYDER	Job Type	PRODUCTION
Country	United States	Job Date	10-08-2019



Well HINGLEY
Field
Engineer ALBERT SNYDER
Country United States

Client CRESONE
SIR No. 3067252
Job Type PRODUCTION
Job Date 10-08-2019



Cementing Service Report

				Customer CRESONE				Job Number 3067252			
Well HINGLEY 1C-18H-A167			Location (legal) 1C-18H-A167			Schlumberger Location CWY			Job Start Oct/08/2019		
Field		Formation Name/Type		Deviation deg		Bit Size in		Well MD 12425.0 ft		Well TVD 7510.0 ft	
County WELD		State/Province Colorado		BHP psi		BHST 234 degF		BHCT 213 degF		Pore Press. Gradient lb/gal	
Well Master 05-123-47163		API/UWI 05-123-47163									
Rig Name E 153		Drilled For Oil & Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone N/A		Well Class New		Well Type Exploration		2552.0		9.6		36.0	
						12418.0		5.5		20.0	
										110	
										110	
Drilling Fluid Type LT OBM		Max. Density 10.70 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type PRODUCTION									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 275.1 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 275.4 bbl		Annular Vol. 467.7 bbl	
										Openhole Vol. 200.0 bbl	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>				Casing Tools				Squeeze Job	
Lift Pressure 10454 psi						Shoe Type Guide				Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12418.0 ft				Tool Type	
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth ft	
Cement Head Type SWEDGE						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Oct/08/2019 11:00		Arrived on Location Oct/08/2019 11:05		Leave Location Oct/08/2019 20:10		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 12404.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
10/08/2019	15:12:07	-13	0.0	8.34	0.0	Started Acquisition					
10/08/2019	15:13:01	-5	0.2	8.34	0.1	Start Job					
10/08/2019	15:14:07	-9	0.0	8.32	0.7						
10/08/2019	15:16:07	-11	0.0	8.32	0.7						
10/08/2019	15:17:00	-12	0.0	8.32	0.7	Fill lines with 5 bbls of fresh water					
10/08/2019	15:18:07	346	3.7	8.38	2.4						
10/08/2019	15:19:20	1720	0.0	8.38	5.3	Pressure Test Lines					
10/08/2019	15:20:07	1663	0.0	8.38	5.3						
10/08/2019	15:21:10	7144	0.0	8.38	5.3	Low test =1000 psi =good high test =7000 psi =good					
10/08/2019	15:22:07	7148	0.0	8.38	5.3						
10/08/2019	15:24:07	6887	0.0	8.39	5.3						
10/08/2019	15:24:36	22	0.0	8.38	5.4	Reset Total, Vol = 5.40 bbl					
10/08/2019	15:26:07	29	0.1	8.38	0.0						
10/08/2019	15:28:07	40	0.0	8.38	0.1						
10/08/2019	15:30:07	154	1.0	12.00	0.2						
10/08/2019	15:30:40	146	1.5	12.09	1.1	Start Pumping Spacer					
10/08/2019	15:32:07	305	2.3	11.95	4.9						
10/08/2019	15:34:07	400	4.1	11.95	10.1						
10/08/2019	15:35:00	141	3.5	11.90	13.3	Mix and pump 60 bbls of prime scrub @12# with surfactant					
10/08/2019	15:36:07	455	6.4	11.92	20.0						
10/08/2019	15:38:07	298	5.7	11.96	32.5						

Well			Field		Job Start	Customer	Job Number
HINGLEY 1C-18H-A167					Oct/08/2019	CRESONE	3067252
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/08/2019	15:40:07	410	6.3	12.07	45.1		
10/08/2019	15:41:03	210	4.4	11.98	50.0	End Spacer	
10/08/2019	15:42:07	189	4.5	11.77	54.8		
10/08/2019	15:43:26	-6	0.8	11.48	60.6	Reset Total, Vol = 60.61 bbl	
10/08/2019	15:44:07	-10	0.0	11.46	0.0		
10/08/2019	15:46:07	-9	0.0	11.36	0.0		
10/08/2019	15:48:07	-9	0.0	11.36	0.0		
10/08/2019	15:50:07	49	2.3	13.06	0.9		
10/08/2019	15:50:29	233	4.4	12.54	2.0	Start Mixing Lead Slurry	
10/08/2019	15:52:07	562	6.2	12.55	9.4		
10/08/2019	15:54:07	909	8.0	12.49	24.7		
10/08/2019	15:56:07	-7	0.0	13.71	26.1		
10/08/2019	15:58:07	-7	0.0	13.69	26.1		
10/08/2019	16:00:00	-6	0.0	13.68	26.1	mix and pump 830 sks of lead @12.5# 246 bbls	
10/08/2019	16:00:07	-6	0.0	13.68	26.1		
10/08/2019	16:02:07	1	0.2	12.83	26.1		
10/08/2019	16:04:07	497	6.2	12.50	33.8		
10/08/2019	16:06:07	895	7.9	12.50	48.5		
10/08/2019	16:08:07	822	7.9	12.52	64.2		
10/08/2019	16:10:07	773	7.9	12.55	80.2		
10/08/2019	16:12:07	783	8.1	12.56	96.1		
10/08/2019	16:14:07	756	8.0	12.59	112.1		
10/08/2019	16:16:07	728	8.0	12.47	128.0		
10/08/2019	16:18:07	493	6.2	12.40	141.0		
10/08/2019	16:20:00	524	6.3	12.57	152.8	yield =1.67 wr=5.02 with laytex	
10/08/2019	16:20:07	542	6.3	12.55	153.5		
10/08/2019	16:22:07	505	6.3	12.44	166.0		
10/08/2019	16:24:07	561	6.2	12.58	178.5		
10/08/2019	16:26:07	527	6.3	12.46	190.9		
10/08/2019	16:28:07	522	6.2	12.42	203.4		
10/08/2019	16:30:00	492	6.2	12.45	215.2	top of lead @ 3500 ft	
10/08/2019	16:30:07	507	6.3	12.45	215.9		
10/08/2019	16:32:07	561	6.2	12.74	228.4		
10/08/2019	16:32:13	568	6.2	12.72	229.0	End Lead Slurry	
10/08/2019	16:34:07	490	6.3	12.36	240.9		
10/08/2019	16:35:36	-3	0.0	12.88	246.9	Reset Total, Vol = 246.90 bbl	
10/08/2019	16:36:07	-3	0.0	12.85	0.0		
10/08/2019	16:38:07	-1	0.0	12.91	0.0		
10/08/2019	16:40:07	-1	0.0	12.35	0.0		
10/08/2019	16:42:07	0	0.0	12.36	0.0		
10/08/2019	16:44:07	100	1.9	14.67	0.5		
10/08/2019	16:45:00	605	6.2	14.47	3.6	drop bottom plug	
10/08/2019	16:46:07	595	6.3	14.45	10.6		
10/08/2019	16:48:07	576	6.3	14.43	23.2		
10/08/2019	16:50:00	829	8.0	14.52	35.2	Start Mixing Tail Slurry	
10/08/2019	16:50:07	841	8.1	14.53	36.1		
10/08/2019	16:52:07	774	8.1	14.47	52.2		
10/08/2019	16:54:07	769	8.0	14.46	68.3		
10/08/2019	16:56:07	761	8.0	14.49	84.4		
10/08/2019	16:58:07	508	6.3	14.50	100.1		
10/08/2019	17:00:00	57	1.4	14.38	108.1	mix and pump 597 sks of tail @14.5# 145 bbls	
10/08/2019	17:00:07	63	1.5	14.34	108.2		
10/08/2019	17:02:07	-4	0.0	13.94	110.9		
10/08/2019	17:04:07	-2	0.0	13.88	110.9		

Well			Field		Job Start	Customer	Job Number
HINGLEY 1C-18H-A167					Oct/08/2019	CRESONE	3067252
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/08/2019	17:08:07	240	4.0	14.49	111.1		
10/08/2019	17:10:00	271	4.4	14.40	119.5	yield =1.36 wr=5.64	
10/08/2019	17:10:07	273	4.4	14.39	120.0		
10/08/2019	17:12:07	280	4.4	14.50	128.8		
10/08/2019	17:14:07	266	4.4	14.48	137.7		
10/08/2019	17:15:45	-1	0.2	8.46	144.4	Reset Total, Vol = 144.38 bbl	
10/08/2019	17:16:07	-1	0.1	15.49	0.1		
10/08/2019	17:18:00	3	0.0	15.06	0.1	End Tail Slurry	
10/08/2019	17:18:07	3	0.0	15.10	0.1		
10/08/2019	17:20:07	3	0.0	6.97	2.9		
10/08/2019	17:21:32	45	0.6	9.71	3.0	Start Pumping Wash	
10/08/2019	17:22:07	134	3.1	9.26	3.5		
10/08/2019	17:24:07	143	4.5	8.81	12.4		
10/08/2019	17:26:07	-20	1.1	8.49	21.2		
10/08/2019	17:28:07	89	0.0	8.39	26.4		
10/08/2019	17:30:07	-4	0.0	8.38	26.5		
10/08/2019	17:31:59	-1	0.0	8.38	26.5	drop top plug	
10/08/2019	17:32:07	30	0.8	8.38	0.0		
10/08/2019	17:34:07	233	8.1	8.41	10.7		
10/08/2019	17:35:16	237	8.1	8.40	20.0	Start Displacement	
10/08/2019	17:36:07	222	8.1	8.39	27.0		
10/08/2019	17:38:07	727	8.1	8.39	43.2		
10/08/2019	17:40:00	697	8.1	8.39	58.4	mix and pump 30 bbls of retarded water	
10/08/2019	17:40:07	714	8.1	8.39	59.3		
10/08/2019	17:42:07	914	8.1	8.39	75.4		
10/08/2019	17:44:07	1120	8.0	8.39	91.5		
10/08/2019	17:46:07	1373	8.0	8.39	107.5		
10/08/2019	17:48:07	1657	8.0	8.39	123.5		
10/08/2019	17:50:07	1915	8.0	8.39	139.5		
10/08/2019	17:52:07	2121	7.9	8.39	155.4		
10/08/2019	17:54:07	2313	7.9	8.39	171.2		
10/08/2019	17:56:07	2368	7.8	8.39	186.9		
10/08/2019	17:58:07	2408	7.8	8.39	202.5		
10/08/2019	18:00:07	2429	7.8	8.39	218.1		
10/08/2019	18:02:07	2454	7.8	8.39	233.6		
10/08/2019	18:04:07	2471	7.7	8.39	249.2		
10/08/2019	18:06:07	1997	4.3	8.39	262.0		
10/08/2019	18:08:07	1996	4.4	8.39	270.7		
10/08/2019	18:10:07	3010	0.0	8.39	278.2		
10/08/2019	18:12:07	3043	0.0	8.39	278.2		
10/08/2019	18:14:07	3011	0.0	8.39	278.2		
10/08/2019	18:15:00	1027	0.0	8.39	278.2	no cement tor spacer back to the surface	
10/08/2019	18:16:07	8	0.0	8.39	278.2		
10/08/2019	18:16:09	8	0.0	8.39	278.2	Land the plug on calculated at 2000 psi	
10/08/2019	18:16:11	8	0.0	8.39	278.2	Reset Total, Vol = 278.22 bbl	
10/08/2019	18:18:07	58	2.7	8.39	1.7		
10/08/2019	18:20:07	6	0.0	8.39	2.4		
10/08/2019	18:21:00	168	4.1	8.39	4.0	checked the float its holding flowed back 2.5 bbls	
10/08/2019	18:22:07	513	8.2	8.39	12.1		
10/08/2019	18:24:07	529	8.1	8.39	28.3		
10/08/2019	18:25:00	4	0.0	8.40	30.1	wwash out stack with sugar water	
10/08/2019	18:26:07	4	0.0	8.39	30.1		
10/08/2019	18:28:07	3	0.0	8.39	30.1		
10/08/2019	18:30:07	1	0.0	8.39	30.2		

Well HINGLEY 1C-18H-A167			Field		Job Start Oct/08/2019		Customer CRESONE		Job Number 3067252	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/08/2019	18:34:07	22	0.0	0.08	34.5					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 7.0	N2	Mud 6.0	Maximum Rate 8.0		Total Slurry 391.0	Mud	Spacer 60.0	N2				
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 3100	Final 2000	Average 1000	Bump Plug to 3100	Breakdown	Type FreshWater	Volume 5.0 bbl		Density 8.34 lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 727.3 bbl	Displacement 275.4 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume 0.0 bbl						
				Washed Thru Perfs <input type="checkbox"/>		To ft						
Customer or Authorized Representative RYAN BUFORD			Schlumberger Supervisor ALBERT SNYDER			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>					
						-	-					