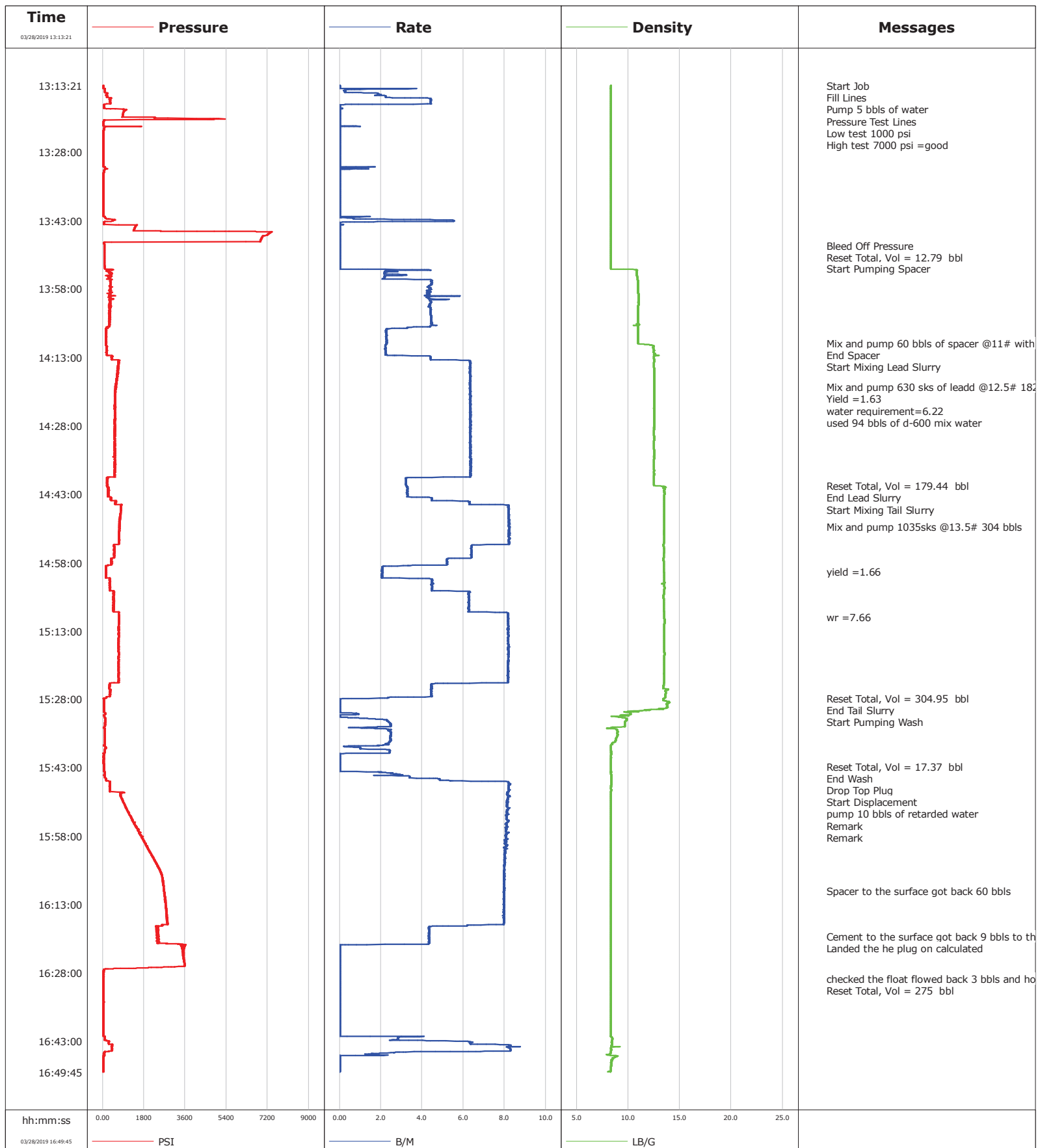


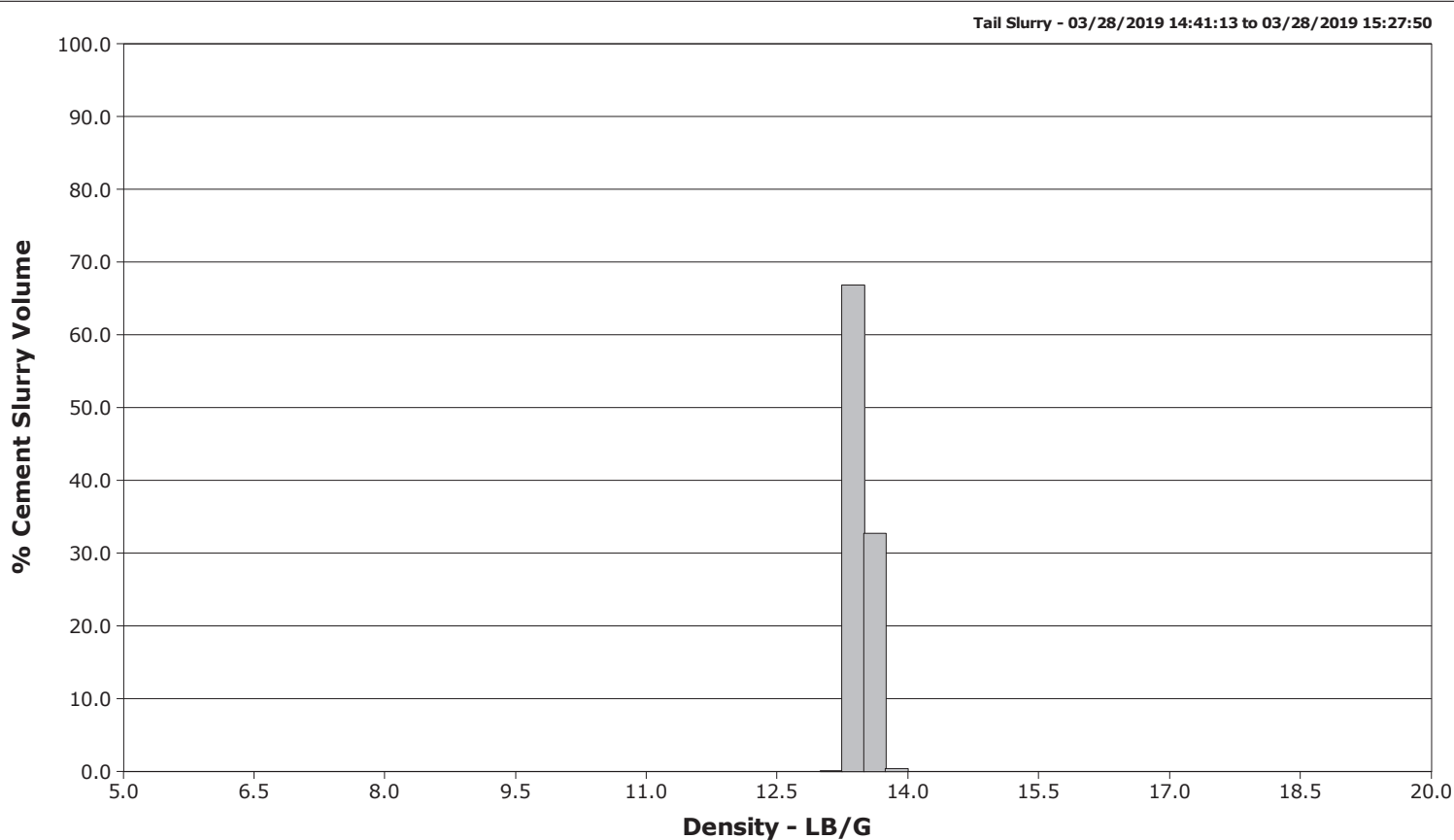
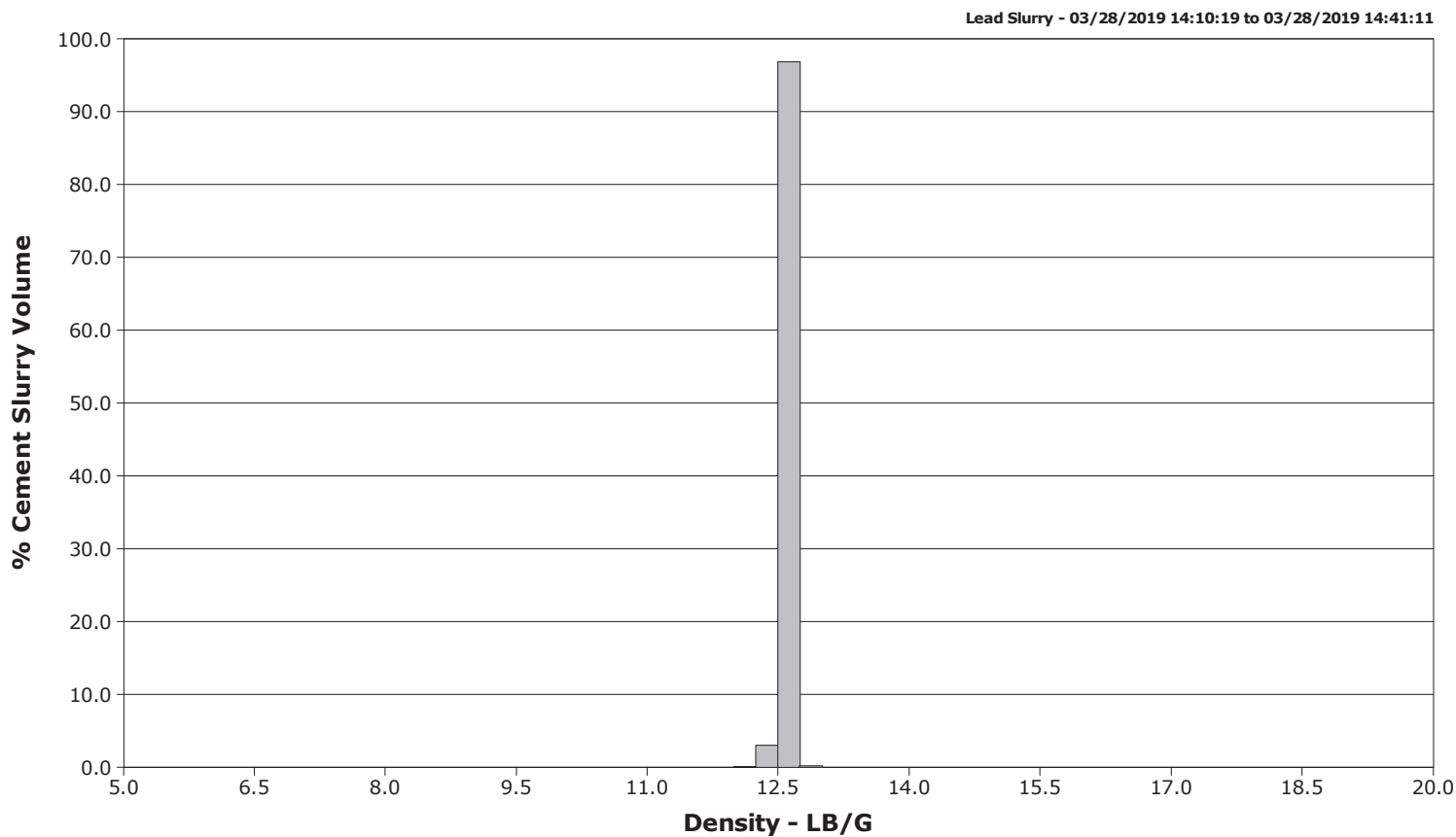
Well ECHEVERRIA
Field WILDCAT
Engineer ALBERT SNYDER
Country United States

Client Crestone peake
SIR No. 2893622
Job Type PRODUCTION
Job Date 03-28-2019



Well ECHEVERRIA
Field WILDCAT
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Client Crestone peake
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Cementing Service Report

				Customer Crestone peake			Job Number 2893622										
Well ECHEVERRIA 2K-2H-D267			Location (legal) 2K-2H-D267			Schlumberger Location CWY			Job Start Mar/28/2019								
Field WILDCAT		Formation Name/Type			Deviation deg		Bit Size in		Well MD 12412.0 ft		Well TVD 7270.0 ft						
County weld		State/Province Colorado			BHP psi		BHST 233 degF		BHCT 203 degF		Pore Press. Gradient lb/gal						
Well Master 0631799957		API/UWI															
Rig Name E-142		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 Development		2371.0		9.6		40.0		110		BUTT			
						12412.0		5.5		20.0		110		BUSE			
Drilling Fluid Type LT OBM		Max. Density 10.10 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			
Service Instructions						ft		ft						ft			
						ft		ft						Diameter			
						ft		ft						in			
		Treat Down Casing				Displacement 275.0 bbl				Packer Type				Packer Depth ft			
		Tubing Vol. bbl				Casing Vol. 275.3 bbl				Annular Vol. 110.0 bbl				Openhole Vol. 409.0 bbl			
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>				Casing Tools				Squeeze Job							
Lift Pressure psi						Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12412.0 ft				Tool Type							
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth ft							
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in							
Job Scheduled For Mar/28/2019 09:30		Arrived on Location Mar/28/2019 08:45		Leave Location Mar/28/2019 18:00		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 12401.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
03/28/2019	13:13:21	33	0.0	8.33	0.0	Started Acquisition											
03/28/2019	13:13:26	33	0.0	8.33	0.0	Start Job											
03/28/2019	13:13:31	33	0.0	8.33	0.0	Fill Lines											
03/28/2019	13:13:32	32	0.0	8.33	0.0	Pump 5 bbls of water											
03/28/2019	13:15:21	174	2.0	8.33	1.4												
03/28/2019	13:17:21	336	4.4	8.33	8.5												
03/28/2019	13:17:41	54	0.0	8.33	9.2	Pressure Test Lines											
03/28/2019	13:17:45	54	0.0	8.33	9.2	Low test 1000 psi											
03/28/2019	13:19:21	903	0.0	8.34	9.2												
03/28/2019	13:20:57	74	0.0	8.34	9.2	High test 7000 psi =good											
03/28/2019	13:21:21	40	0.0	8.34	9.2												
03/28/2019	13:23:21	41	0.0	8.34	9.3												
03/28/2019	13:25:21	35	0.0	8.34	9.3												
03/28/2019	13:27:21	34	0.0	8.34	9.3												
03/28/2019	13:29:21	34	0.0	8.34	9.3												
03/28/2019	13:31:21	92	0.3	8.33	9.5												
03/28/2019	13:33:21	34	0.0	8.33	9.7												
03/28/2019	13:35:21	34	0.0	8.33	9.7												
03/28/2019	13:37:21	34	0.0	8.33	9.7												
03/28/2019	13:39:21	34	0.0	8.34	9.7												
03/28/2019	13:41:21	34	0.0	8.34	9.7												

Well ECHEVERRIA 2K-2H-D267			Field WILDCAT	Job Start Mar/28/2019		Customer Crestone peake	Job Number 2893622
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/28/2019	13:45:21	4126	0.0	8.34	12.8		
03/28/2019	13:47:21	6891	0.0	8.34	12.8		
03/28/2019	13:48:27	70	0.0	8.34	12.8	Bleed Off Pressure	
03/28/2019	13:48:56	71	0.0	8.34	12.8	Reset Total, Vol = 12.79 bbl	
03/28/2019	13:49:21	71	0.0	8.34	0.0		
03/28/2019	13:51:21	80	0.0	8.34	0.0		
03/28/2019	13:53:21	87	0.0	8.34	0.0		
03/28/2019	13:53:30	88	0.0	8.34	0.0	Start Pumping Spacer	
03/28/2019	13:55:21	224	2.2	10.88	4.3		
03/28/2019	13:57:21	337	4.3	10.97	11.9		
03/28/2019	13:59:21	292	4.2	10.99	20.6		
03/28/2019	14:01:21	334	4.4	10.99	29.6		
03/28/2019	14:03:21	272	4.4	10.96	38.4		
03/28/2019	14:05:21	325	4.5	10.96	47.2		
03/28/2019	14:07:21	164	2.3	10.97	54.3		
03/28/2019	14:09:21	138	2.3	10.97	58.8		
03/28/2019	14:09:51	152	2.3	10.97	60.0	Mix and pump 60 bbls of spacer @11# with surfactant	
03/28/2019	14:09:55	152	2.3	10.97	60.1	End Spacer	
03/28/2019	14:10:19	164	2.2	12.22	61.0	Start Mixing Lead Slurry	
03/28/2019	14:11:21	177	2.2	12.48	63.3		
03/28/2019	14:13:21	421	4.4	12.51	69.3		
03/28/2019	14:15:21	669	6.3	12.52	81.5		
03/28/2019	14:17:21	629	6.3	12.54	94.1		
03/28/2019	14:19:21	599	6.3	12.54	106.8		
03/28/2019	14:19:30	576	6.3	12.54	107.7	Mix and pump 630 sks of leadd @12.5# 182 bbls	
03/28/2019	14:19:33	585	6.3	12.54	108.1	Yield =1.63	
03/28/2019	14:19:34	590	6.3	12.54	108.2	water requirement=6.22	
03/28/2019	14:21:21	540	6.4	12.53	119.4		
03/28/2019	14:23:21	523	6.3	12.53	132.1		
03/28/2019	14:25:21	532	6.3	12.52	144.8		
03/28/2019	14:27:21	549	6.3	12.52	157.5		
03/28/2019	14:29:21	537	6.3	12.51	170.2		
03/28/2019	14:31:21	542	6.3	12.50	182.8		
03/28/2019	14:33:21	532	6.3	12.51	195.5		
03/28/2019	14:35:21	539	6.4	12.51	208.2		
03/28/2019	14:37:21	548	6.3	12.51	220.9		
03/28/2019	14:39:21	225	3.7	12.50	233.5		
03/28/2019	14:41:10	225	3.2	12.72	239.4	Reset Total, Vol = 179.44 bbl	
03/28/2019	14:41:11	215	3.2	12.84	239.4	End Lead Slurry	
03/28/2019	14:41:13	191	3.2	13.05	239.5	Start Mixing Tail Slurry	
03/28/2019	14:41:21	208	3.3	13.52	240.0		
03/28/2019	14:43:21	239	3.3	13.51	246.5		
03/28/2019	14:45:21	819	7.9	13.51	256.7		
03/28/2019	14:47:21	789	8.2	13.50	273.0		
03/28/2019	14:49:21	748	8.2	13.48	289.4		
03/28/2019	14:50:00	742	8.2	13.48	294.8	Mix and pump 1035sks @13.5# 304 bbls	
03/28/2019	14:51:21	704	8.2	13.46	305.9		
03/28/2019	14:53:21	709	8.2	13.49	322.3		
03/28/2019	14:55:21	514	6.4	13.49	336.4		
03/28/2019	14:57:21	405	5.2	13.41	348.9		
03/28/2019	14:59:21	141	2.1	13.45	357.2		
03/28/2019	15:00:00	141	2.1	13.46	358.5	yield =1.66	
03/28/2019	15:01:21	147	2.0	13.47	361.3		
03/28/2019	15:03:21	320	4.5	13.51	369.9		

Well ECHEVERRIA 2K-2H-D267			Field WILDCAT		Job Start Mar/28/2019	Customer Crestone peake		Job Number 2893622
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/28/2019	15:07:21	476	6.3	13.43	393.4			
03/28/2019	15:09:21	705	8.2	13.51	406.7			
03/28/2019	15:10:00	711	8.1	13.51	412.0	wr =7.66		
03/28/2019	15:11:21	710	8.2	13.52	423.1			
03/28/2019	15:13:21	700	8.2	13.50	439.4			
03/28/2019	15:15:21	710	8.2	13.49	455.8			
03/28/2019	15:17:21	709	8.2	13.50	472.1			
03/28/2019	15:19:21	689	8.2	13.50	488.5			
03/28/2019	15:21:21	695	8.2	13.49	504.8			
03/28/2019	15:23:21	692	8.2	13.50	521.1			
03/28/2019	15:25:21	298	4.5	13.42	534.2			
03/28/2019	15:27:21	316	4.5	13.61	543.1			
03/28/2019	15:27:44	134	2.2	13.54	544.3	Reset Total, Vol = 304.95 bbl		
03/28/2019	15:27:50	43	0.6	13.42	544.5	End Tail Slurry		
03/28/2019	15:30:49	69	0.0	9.81	544.6	Start Pumping Wash		
03/28/2019	15:31:21	103	0.8	10.24	544.8			
03/28/2019	15:33:21	107	2.5	9.65	547.7			
03/28/2019	15:35:21	101	2.5	8.96	552.1			
03/28/2019	15:37:21	96	2.4	8.73	557.0			
03/28/2019	15:39:21	98	2.4	8.35	560.5			
03/28/2019	15:41:21	43	0.0	8.35	561.7			
03/28/2019	15:42:42	44	0.0	8.35	561.7	Reset Total, Vol = 17.37 bbl		
03/28/2019	15:42:44	43	0.0	8.35	561.7	End Wash		
03/28/2019	15:43:11	43	0.0	8.35	561.7	Drop Top Plug		
03/28/2019	15:43:21	44	0.0	8.35	561.7			
03/28/2019	15:43:26	43	0.0	8.35	561.7	Start Displacement		
03/28/2019	15:43:27	44	0.0	8.35	561.7	pump 10 bbls of retarded water		
03/28/2019	15:45:21	137	4.6	8.37	565.9			
03/28/2019	15:47:21	326	8.2	8.35	580.3			
03/28/2019	15:48:21	800	8.1	8.34	588.5	Remark		
03/28/2019	15:49:21	812	8.2	8.35	596.6			
03/28/2019	15:51:21	981	8.1	8.34	612.9			
03/28/2019	15:53:21	1185	8.1	8.34	629.2			
03/28/2019	15:55:21	1377	8.0	8.34	645.4			
03/28/2019	15:57:21	1584	8.1	8.34	661.6			
03/28/2019	15:59:21	1827	8.0	8.33	677.7			
03/28/2019	16:01:21	2037	8.0	8.33	693.8			
03/28/2019	16:03:21	2279	8.0	8.33	709.8			
03/28/2019	16:05:21	2477	8.0	8.33	725.8			
03/28/2019	16:07:21	2609	8.0	8.33	741.7			
03/28/2019	16:09:21	2666	8.0	8.33	757.7			
03/28/2019	16:10:00	2679	8.0	8.33	762.9	Spacer to the surface got back 60 bbls		
03/28/2019	16:11:21	2719	8.0	8.33	773.6			
03/28/2019	16:13:21	2753	8.0	8.33	789.5			
03/28/2019	16:15:21	2808	8.0	8.33	805.5			
03/28/2019	16:17:21	2841	8.0	8.33	821.4			
03/28/2019	16:19:21	2400	4.3	8.33	831.0			
03/28/2019	16:20:00	2404	4.3	8.33	833.8	Cement to the surface got back 9 bbls to the surface		
03/28/2019	16:21:21	2441	4.3	8.33	839.7			
03/28/2019	16:22:00	3423	0.0	8.33	841.6	Landed the he plug on calculated		
03/28/2019	16:23:21	3505	0.0	8.33	841.6			
03/28/2019	16:25:21	3551	0.0	8.33	841.6			
03/28/2019	16:27:21	43	0.0	8.33	841.6			
03/28/2019	16:29:16	42	0.0	8.33	841.6	checked the float flowed back 3 bbls and holding		

Well			Field		Job Start	Customer		Job Number
ECHEVERRIA 2K-2H-D267			WILDCAT		Mar/28/2019	Crestone peake		2893622
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/28/2019	16:30:38	42	0.0	8.33	841.6	Reset Total, Vol = 275 bbl		
03/28/2019	16:31:21	41	0.0	8.33	841.6			
03/28/2019	16:33:21	41	0.0	8.33	841.6			
03/28/2019	16:35:21	41	0.0	8.34	841.6			
03/28/2019	16:37:21	41	0.0	8.34	841.6			
03/28/2019	16:39:21	40	0.0	8.34	841.6			
03/28/2019	16:41:21	40	0.0	8.34	841.6			
03/28/2019	16:43:21	265	6.3	8.40	847.2			
03/28/2019	16:45:21	90	3.1	8.35	862.6			
03/28/2019	16:47:21	40	0.0	8.41	864.2			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry	N2	Mud	Maximum Rate		Total Slurry 286.0	Mud	Spacer 60.0	N2				
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 3500	Final 3500	Average	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 486.0 bbl	Displacement 275.0 bbl	Mix Water Temp 71 degF	Cement Circulated to Surface?		<input checked="" type="checkbox"/>	Volume 15.0 bbl					
				Washed Thru Perfs		<input type="checkbox"/>	To ft					
Customer or Authorized Representative BRENT MOON			Schlumberger Supervisor ALBERT SNYDER			Circulation Lost	<input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-		-				