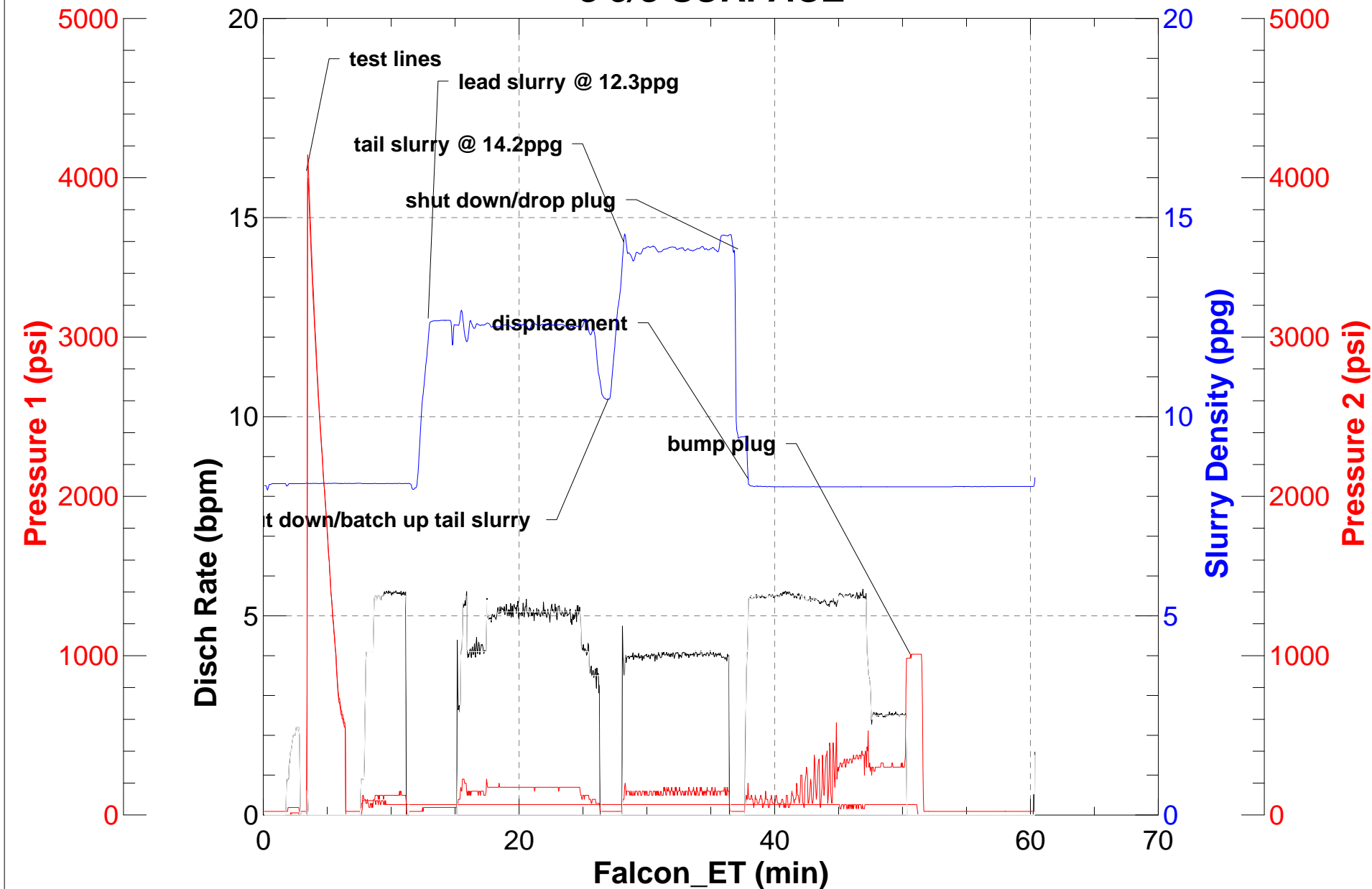


Surface Job



8 5/8 SURFACE



CEMENT JOB REPORT



CUSTOMER Antero Resources Corporation			DATE 09-JUL-10		F.R. # 1001648040		SERV. SUPV. FRANCISCO P CASTILLO				
LEASE & WELL NAME FREI A9 - API 05045196410000			LOCATION 7-6S-91W			COUNTY-PARISH-BLOCK Garfield Colorado					
DISTRICT Grand Junction			DRILLING CONTRACTOR RIG #			TYPE OF JOB Surface					
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES							
9-5/8" Top Cem Plug, Nitrile cvr, Phe		Float Collar, Ball Valve, 9-5/8 - 8rd		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
		Guide Shoe, Cement Nose, 9-5/8 i									
MATERIALS FURNISHED BY BJ											
Fresh Water				0	8.34	0	0	00:00	20		
PL+.04lbs/skSF+1%Cacl2+.25lbs/skCF+8%Bentonite II				157	12.3	2.09	11.62	03:00	58.4	43.41	
TypeIII+.04lbs/skSF+1%Cacl2+.25lbs/skCF				110	14.2	1.47	7.35	02:09	28.7	19.18	
Fresh Water				0	8.34	0	0	00:00	61		
Available Mix Water 800 Bbl. Available Displ. Fluid 800 Bbl.				TOTAL			168.1		62.59		
HOLE			TBG-CSG-D.P.				COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE	
12.25	15	1011	8.625	24	CSG	1001	J-55	1001	956	0	
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		TOP	BTM	SIZE	THREAD	TYPE	WGT.
				no packer		0	0	8.625	8RD	WATER BASED MU	9.5
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
61.0	BBLS	Fresh Water	8.34	500	0	0	0	0	2950	2360	rig tank
Circulation Prior to Job											
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time:			Circulation Rate: BPM		
Mud Density In: 9.5 LBS/GAL Mud Density Out: 9.5 LBS/GAL						PV & YP Mud In: 35			PV & YP Mud Out: 35		
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> Units:						Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>					
Displacement And Mud Removal											
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: .5 BBLS					
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL						Method Used to Verify Returns: Visual					
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES					
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE											
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES						Quantity: 12		Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID			
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD											
Plugs											
Number of Attempts by BJ: Competition:						Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			Quantity:		
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES					
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Top of Plug: FT			Bottom of Plug: FT		
Squeezes (Update Original Treatment Report for Primary Job)											
BLOCK SQUEEZE <input type="checkbox"/> SHOE SQUEEZE <input type="checkbox"/> TOP OF LINER SQUEEZE <input type="checkbox"/> PLANNED <input type="checkbox"/> UNPLANNED <input type="checkbox"/>											
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		PSI Applied:		Fluid Weight: LBS/GAL	
Casing Test (Update Original Treatment Report for Primary Job)											
Casing Test Pressure: PSI With LBS/GAL Mud						Time Held: Hours Minutes					
Shoe Test (Update Original Treatment Report for Primary Job)											
Depth Drilled out of Shoe: FT						Target EMW: LBS/GAL			Actual EMW: LBS/GAL		
Number of Times Tests Conducted:						Mud Weight When Test was Conducted: LBS/GAL					
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: had some trouble running casing but was able to finish.											

CEMENT JOB REPORT



Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	4000 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
13:30	0	0	0	0	0	leave yard	
15:00	0	0	0	0	0	arrive on location	
18:30	0	0	0	0	0	pre-job safety meeting	
19:00	4000	0	1	2	WATER	test lines	
19:04	123	0	5.5	20	WATER	fresh water spacer	
19:12	175	0	5	58	CEMENT	lead slurry @ 12.3ppg	
19:25	149	0	4	28	CEMENT	tail slurry @ 14.2ppg	
19:34	0	0	0	0	0	shut down/drop plug	
19:35	0	0	0	0	0	start displacement	
19:41	175	0	5	30	WATER	displacement	
19:45	300	0	5	50	WATER	displacement	
19:45	300	0	2.5	61	WATER	displacement/slow rate/ 61bbls total to bump plug	
19:47	984	0	0	0	0	bump plug	
19:48	0	0	0	0	0	check floats/floats held/0.5bbl flow back	
00:00	0	0	0	0	0	circulated 16bbls cement to pit	
00:00	0	0	0	0	0	thank you from javier castillo and crew	

BUMPED PLUG <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	PSI TO BUMP PLUG 500	TEST FLOAT EQUIP. <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 16	TOTAL BBL. PUMPED 170	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input checked="" type="checkbox"/> N	Service Supervisor Signature:
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