IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Thursday 10-25-2018	Remote monitor Start: 7:00 AM Site Visit start AM	Remote Monitor End: 11:30PM Site Visit end PM
Condition: Temperature 39- 64	x 🗆 Partly Cloudy	🗆 Balmy	
Precip Past 24 hours:		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. The Flare continues to run on gravity gas flow of 8-10 CFM. No venting since Friday 10-12-2018.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Blower	🛛 Auto 🛛 Hand On 🖾 Off 🗔 In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Flush Pumps	🗆 Auto 🛛 Hand On 🗆 Off 🗆 In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗔 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🖾 Cycle			
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	□ Continuous ⊠ Both □ Sequential				

MOTOR DATA:

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

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Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Sta	Operational Status					
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.		
Fault? 🗆 Yes 🖾 No	20.9						
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out		
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw		
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp		
		X I N	31.2	29.1	301		

UNISON GAS CONDITIONING LOG

Pressure	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	Door	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email	

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Friday 10-26-2018	Remote monitor Start: 7:00 AM Site Visit start 6:00 PM	Remote Monitor End: 11:30PM
			Site Visit end 7:00 PM
Condition: Temperature 39- 64	x 🗆 Raining all day	🗆 Balmy	
Precip Past 24 hours: 2,20 inches taken at		Wind: (mph): calm 4-10m	ph
6:42PM			

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. Site Visit needed to check system the team viewer was not working dependably we need to install cameras asap to save on visits. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. The Flare continues to run on gravity gas flow of 8-10 CFM. No venting since Friday 10-12-2018.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status		
Fluidyne Aeration System, Including:			
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault		
Blower	🛛 Auto 🛛 Hand On 🗌 Off 🗌 In Fault:		
CP-1 (Control Panel)	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault		
Flush Pumps	□ Auto		
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗌 In Fault		

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🖾 Cycle			
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous	🖾 Both 🗆 Sequ	ential		

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	

Blower	30Hz	
Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		⊠Y □N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure	PIT 311	PIT 331	PIT 351	Pressure	Panel	HM 331	
Data	-5 to 10 inWC	88 to 110psig	88 to 110 psig	Differential	Door	Hours	
	-0.1	97.39	91.8	2.0		7060	
Temperature	TE 141	TE 311	TE 321	TE 331	TE 341	TE 342	TE 31
Data	32 to 45 F	40 to 115 F	35 to 75 F	80 to 220 F	33 to 45 F	65 to 90 F	35 to 115 F
Dutu	35.1	83.1	46.6	186.5	35.2	88.3	
Glycol	TI 141	PI 141	FI 141	TI 142	PI 142	TI 111	PI 111
Piping	32 to 45 F	35 to 52 psig	2.5 to 3.5 gpm	35 to 50 F	33 to 50 psig	38 to 52 F	30 to 48 psig
Oil	PI 231	TI 231	PI 232	TI 232	PI 233	TI 233	PI 234
Piping	90 to 110 psig	178 to 215 F	85 to 105 psig	130 to 180 F	80 to 100	168 to 185 F	78 to 100psig
					psig		
Gas	PIT 311	TI 311	TI 321	PDI 321	PI 331	TI 331	PI 332
Piping	-10 to10inWC	40 to 115 F	35 to 75 F	0 to 6 inWC	90 to 110	80 to 220 F	90 to 110psig
i iping					psig		
Gas	TI 341	PI 341	TI 342	PI 342	TE 343	PI 343	
	80 to 220 F	90 to 110	115 to 155 F	90 to 110 psig	33 to 45 F	90 to 110	
Piping		psig				psig	
Gas	TI 351	PI 351	Check	LI 721	LI 231	LI 741	
Piping	65 to 90 F	88 to 15 psig	Indicators				
0			maneators				

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Saturday and Sunday 10-27-28-2018	Remote monitor Start: 7:00 AM Site Visit start	Remote Monitor End: 11:30PM Site Visit end
Condition: Temperature 46- 68	x <a>D Partly Cloudy	🗆 Balmy	
Precip		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. The Flare continues to run on gravity gas flow of 8-10 CFM. No venting since Friday 10-12-2018.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	🖾 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Blower	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Flush Pumps	🗆 Auto 🛛 Hand On 🗆 Off 🗆 In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗔 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes
Static	60	60		
Anoxic	90	90		
Aerobic	180	180		
Blower	🗆 Continuous	🛛 Cycle		
Jet Motive Pumps	□ Continuous 🛛 Both □ Pump #1 □ Pump # 2			
Digester Pumps	🗆 Continuous 🗵 Both 🗆 Sequential			

MOTOR DATA:

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

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Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		X I N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	Door	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Monday 10-29-2018	Remote monitor Start: 7:00 AM Site Visit start	Remote Monitor End: 11:30PM Site Visit end
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. The Flare continues to run on gravity gas flow of 8-10 CFM. No venting since Friday 10-12-2018. ProPump was on site installing the Phase converters and setting up for thr wiring change over of Flush Pump back to 3 Phase

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🛛 Auto 🛛 Hand On 🖾 Off 🗔 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Flush Pumps	□ Auto 🛛 Hand On □ Off □ In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗍 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes
Static	60	60		
Anoxic	90	90		
Aerobic	180	180		
Blower	🗆 Continuous	🛛 Cycle		
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2			
Digester Pumps	Continuous	🛛 Both 🗆 Seque	ential	

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status					
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.	
Fault? 🗆 Yes 🖾 No	20.9					
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out	
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw	
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp	
		X I N	31.2	29.1	301	

UNISON GAS CONDITIONING LOG

Pressure	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	Door	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Tuesday 10-30-2018	Remote monitor Start: 7:00 AM Site Visit start 9:45 AM	Remote Monitor End: 11:30PM Site Visit end 2:15 PM
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. The Flare continues to run on gravity gas flow of 8-10 CFM. No venting since Friday 10-12-2018. ProPump was on site installing the Phase converters and setting up for the wiring change over of Flush Pump back to 3 Phase Kevin Harward joined us to assist. We put boat in Basin for the wiring change on Flush Pump

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	🖾 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Blower	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Flush Pumps	🗆 Auto 🛛 Hand On 🗆 Off 🗆 In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗔 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes
Static	60	60		
Anoxic	90	90		
Aerobic	180	180		
Blower	🗆 Continuous	🛛 Cycle		
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2			
Digester Pumps	Continuous	🛛 Both 🗆 Seque	ential	

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		⊠Y □N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure	PIT 311	PIT 331	PIT 351	Pressure	Panel	HM 331	
Data	-5 to 10 inWC	88 to 110psig	88 to 110 psig	Differential	Door	Hours	
	-0.1	97.39	91.8	2.0		7060	
Temperature	TE 141	TE 311	TE 321	TE 331	TE 341	TE 342	TE 31
Data	32 to 45 F	40 to 115 F	35 to 75 F	80 to 220 F	33 to 45 F	65 to 90 F	35 to 115 F
	35.1	83.1	46.6	186.5	35.2	88.3	
Glycol	TI 141	PI 141	FI 141	TI 142	PI 142	TI 111	PI 111
Piping	32 to 45 F	35 to 52 psig	2.5 to 3.5 gpm	35 to 50 F	33 to 50 psig	38 to 52 F	30 to 48 psig
Oil	PI 231	TI 231	PI 232	TI 232	PI 233	TI 233	PI 234
Piping	90 to 110 psig	178 to 215 F	85 to 105 psig	130 to 180 F	80 to 100	168 to 185 F	78 to 100psig
					psig		
Gas	PIT 311	TI 311	TI 321	PDI 321	PI 331	TI 331	PI 332
Piping	-10 to10inWC	40 to 115 F	35 to 75 F	0 to 6 inWC	90 to 110	80 to 220 F	90 to 110psig
					psig		
		-					
Gas	TI 341	PI 341	TI 342	PI 342	TE 343	PI 343	
Piping	80 to 220 F	90 to 110 psig	115 to 155 F	90 to 110 psig	33 to 45 F	90 to 110 psig	
		haig				psig	
•	TI 254	DI 251				11744	
Gas	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check	LI 721	LI 231	LI 741	
Piping	03 10 90 F	oo to to held	Indicators				
				1			

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Wednesday 10-31-2018	Remote monitor Start: 7:00 AM Site Visit start 11:00 AM	Remote Monitor End: 11:30PM Site Visit end 3:15 PM
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip in the past 24 hrs: 0.	00 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. The Flare continues to run on gravity gas flow of 8-10 CFM. No venting since Friday 10-12-2018. Kevin Harward came to the farm to install a power part on the Unison system. We tried to start but the chiller had a failure and would not start. We are trying to get help in solving the problem. ProPump will probably need to come back and help with the SCADA. Kevin and I moved the hose to push some of the digester sludge water to the Lagoon

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault
Blower	🛛 Auto 🗆 Hand On \Box Off \Box In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault
Flush Pumps	□ Auto 🛛 Hand On □ Off □ In Fault
Digester Mixing Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes		
Static	60	60				
Anoxic	90	90				
Aerobic	180	180				
Blower	🗆 Continuous 🛛 Cycle					
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2					
Digester Pumps	Continuous	□ Continuous ⊠ Both □ Sequential				

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		⊠Y □N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure	PIT 311	PIT 331	PIT 351	Pressure	Panel	HM 331	
Data	-5 to 10 inWC	88 to 110psig	88 to 110 psig	Differential	Door	Hours	
	-0.1	97.39	91.8	2.0		7060	
Temperature	TE 141	TE 311	TE 321	TE 331	TE 341	TE 342	TE 31
Data	32 to 45 F	40 to 115 F	35 to 75 F	80 to 220 F	33 to 45 F	65 to 90 F	35 to 115 F
	35.1	83.1	46.6	186.5	35.2	88.3	
Glycol	TI 141	PI 141	FI 141	TI 142	PI 142	TI 111	PI 111
Piping	32 to 45 F	35 to 52 psig	2.5 to 3.5 gpm	35 to 50 F	33 to 50 psig	38 to 52 F	30 to 48 psig
Oil	PI 231	TI 231	PI 232	TI 232	PI 233	TI 233	PI 234
Piping	90 to 110 psig	178 to 215 F	85 to 105 psig	130 to 180 F	80 to 100	168 to 185 F	78 to 100psig
					psig		
Gas	PIT 311	TI 311	TI 321	PDI 321	PI 331	TI 331	PI 332
Piping	-10 to10inWC	40 to 115 F	35 to 75 F	0 to 6 inWC	90 to 110	80 to 220 F	90 to 110psig
					psig		
		-					
Gas	TI 341	PI 341	TI 342	PI 342	TE 343	PI 343	
Piping	80 to 220 F	90 to 110 psig	115 to 155 F	90 to 110 psig	33 to 45 F	90 to 110 psig	
		haig				psig	
•	TI 254	DI 251				11744	
Gas	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check	LI 721	LI 231	LI 741	
Piping	03 10 90 F	oo to to held	Indicators				
				1			

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Friday 11-02-2018	Remote monitor Start: 7:00 AM Site Visit start 11:30 AM	Remote Monitor End: 11:30PM Site Visit end 3:30 PM
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip in the past 24 hrs: 0.	.00 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now.. No venting since Friday 10-12-2018. I did a Site visit to do a manual restart after we had an overnight failure, then working with folks at ProPump trying to get SCADA to talk with Unison skid. The Mt and skid were running again and no flare. I talked more with ProPump by phone setting up for the SCADA repair.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🖾 Auto 🛛 Hand On 🖾 Off 🗔 In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Flush Pumps	□ Auto
Digester Mixing Pumps	🛛 Auto 🗌 Hand On 🗌 Off 🗌 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous 🛛 Cycle				
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous	🛛 Both 🗆 Seque	ential		

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status					
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.	
Fault? 🗆 Yes 🖾 No	20.9					
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out	
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw	
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp	
		⊠Y □N	31.2	29.1	301	

UNISON GAS CONDITIONING LOG

Pressure	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	Door	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Saturday 11-03-2018	Remote monitor Start: 7:00 AM Site Visit start 11:00 AM	Remote Monitor End: 11:30PM Site Visit end 12:00 PM
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip in the past 24 hrs: 1.	10 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. Steve Cavanaugh made a site visit to start conditioner. The MT failed after several tries it shut down.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Blower	🛛 Auto 🛛 Hand On 🗌 Off 🗍 In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Flush Pumps	□ Auto 🛛 Hand On □ Off □ In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗍 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous 🛛 Cycle				
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous	🛛 Both 🗆 Sequ	ential		

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		X I N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure	PIT 311	PIT 331	PIT 351	Pressure	Panel	HM 331	
Data	-5 to 10 inWC	88 to 110psig	88 to 110 psig	Differential	Door	Hours	
	-0.1	97.39	91.8	2.0		7060	
Temperature	TE 141	TE 311	TE 321	TE 331	TE 341	TE 342	TE 31
Data	32 to 45 F	40 to 115 F	35 to 75 F	80 to 220 F	33 to 45 F	65 to 90 F	35 to 115 F
2000	35.1	83.1	46.6	186.5	35.2	88.3	
Glycol	TI 141	PI 141	FI 141	TI 142	PI 142	TI 111	PI 111
Piping	32 to 45 F	35 to 52 psig	2.5 to 3.5 gpm	35 to 50 F	33 to 50 psig	38 to 52 F	30 to 48 psig
Oil	PI 231	TI 231	PI 232	TI 232	PI 233	TI 233	PI 234
Piping	90 to 110 psig	178 to 215 F	85 to 105 psig	130 to 180 F	80 to 100 psig	168 to 185 F	78 to 100psig
Gas	PIT 311	TI 311	TI 321	PDI 321	PI 331	TI 331	PI 332
Piping	-10 to10inWC	40 to 115 F	35 to 75 F	0 to 6 inWC	90 to 110 psig	80 to 220 F	90 to 110psig
Gas	TI 341	PI 341	TI 342	PI 342	TE 343	PI 343	
Piping	80 to 220 F	90 to 110 psig	115 to 155 F	90 to 110 psig	33 to 45 F	90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Sunday 11-04-2018	Remote monitor Start: 7:00 AM Site Visit start 10:45 AM	Remote Monitor End: 11:30PM Site Visit end 11:45 AM
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip in the past 24 hrs: 0.	0 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I made a site visit to start conditioner and MT. I found conditioner running but the MT not running and SCADA not recording properly. The MT failed after several tries it shut down. I then did a hard boot and it has been running since 11:05 AM. The MT is producing 59.6 output 54.9 on 18.3 CFM I will monitor and keep records of out put until SCADA can be fixed.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Blower	🛛 Auto 🛛 Hand On 🗌 Off 🗌 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Flush Pumps	□ Auto 🛛 Hand On □ Off □ In Fault
Digester Mixing Pumps	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes
Static	60	60		
Anoxic	90	90		
Aerobic	180	180		
Blower	🗆 Continuous	🖾 Cycle		
Jet Motive Pumps		🛛 Both 🛛 Pump	o #1 🛛 Pump # 2	
Digester Pumps	Continuous	🛛 Both 🗆 Seque	ential	

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		X I N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure	PIT 311	PIT 331	PIT 351	Pressure	Panel	HM 331	
Data	-5 to 10 inWC	88 to 110psig	88 to 110 psig	Differential	Door	Hours	
	-0.1	97.39	91.8	2.0		7060	
Temperature	TE 141	TE 311	TE 321	TE 331	TE 341	TE 342	TE 31
Data	32 to 45 F	40 to 115 F	35 to 75 F	80 to 220 F	33 to 45 F	65 to 90 F	35 to 115 F
2000	35.1	83.1	46.6	186.5	35.2	88.3	
Glycol	TI 141	PI 141	FI 141	TI 142	PI 142	TI 111	PI 111
Piping	32 to 45 F	35 to 52 psig	2.5 to 3.5 gpm	35 to 50 F	33 to 50 psig	38 to 52 F	30 to 48 psig
Oil	PI 231	TI 231	PI 232	TI 232	PI 233	TI 233	PI 234
Piping	90 to 110 psig	178 to 215 F	85 to 105 psig	130 to 180 F	80 to 100 psig	168 to 185 F	78 to 100psig
Gas	PIT 311	TI 311	TI 321	PDI 321	PI 331	TI 331	PI 332
Piping	-10 to10inWC	40 to 115 F	35 to 75 F	0 to 6 inWC	90 to 110 psig	80 to 220 F	90 to 110psig
Gas	TI 341	PI 341	TI 342	PI 342	TE 343	PI 343	
Piping	80 to 220 F	90 to 110 psig	115 to 155 F	90 to 110 psig	33 to 45 F	90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Monday 11-05-2018	Remote monitor Start: 7:00 AM Site Visit start 10:45 AM	Remote Monitor End: 11:30PM Site Visit end 4:30 PM
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip in the past 24 hrs: 0.	0 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. Bryan from PrpPump came to farm to work on SCADA, I was able to talk him through a restart. He had to drain the water from the gas pump on the south end of the skid and then the skid would start. I made a site visit to meet with Bryan. We were able to get the Skid and SCADA talking and we are now running full bore. We have a lot of gas and I plan to stay as long as possible running both flare wade open and the MT wide open burning about 50 CFM. I shut the Flare off at 4:30 PM

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🖾 Auto 🛛 Hand On 🖾 Off 🗔 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Flush Pumps	□ Auto
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗌 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes
Static	60	60		
Anoxic	90	90		
Aerobic	180	180		
Blower	🗆 Continuous	🖾 Cycle		
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2			
Digester Pumps	Continuous	🛛 Both 🗆 Seque	ential	

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	

Blower	30Hz	
Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status					
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.	
Fault? 🗆 Yes 🖾 No	20.9					
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out	
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw	
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp	
		⊠Y □N	31.2	29.1	301	

UNISON GAS CONDITIONING LOG

Pressure	PIT 311	PIT 331	PIT 351	Pressure	Panel	HM 331	
Data	-5 to 10 inWC	88 to 110psig	88 to 110 psig	Differential	Door	Hours	
	-0.1	97.39	91.8	2.0		7060	
Temperature	TE 141	TE 311	TE 321	TE 331	TE 341	TE 342	TE 31
Data	32 to 45 F	40 to 115 F	35 to 75 F	80 to 220 F	33 to 45 F	65 to 90 F	35 to 115 F
2414	35.1	83.1	46.6	186.5	35.2	88.3	
Glycol	TI 141	PI 141	FI 141	TI 142	PI 142	TI 111	PI 111
Piping	32 to 45 F	35 to 52 psig	2.5 to 3.5 gpm	35 to 50 F	33 to 50 psig	38 to 52 F	30 to 48 psig
Oil	PI 231	TI 231	PI 232	TI 232	PI 233	TI 233	PI 234
Piping	90 to 110 psig	178 to 215 F	85 to 105 psig	130 to 180 F	80 to 100	168 to 185 F	78 to 100psig
					psig		
Gas	PIT 311	TI 311	TI 321	PDI 321	PI 331	TI 331	PI 332
	-10 to10inWC	40 to 115 F	35 to 75 F	0 to 6 inWC	90 to 110	80 to 220 F	90 to 110psig
Piping					psig		
Gas	TI 341	PI 341	TI 342	PI 342	TE 343	PI 343	
Piping	80 to 220 F	90 to 110	115 to 155 F	90 to 110 psig	33 to 45 F	90 to 110	
r o		psig				psig	
Gas	TI 351	PI 351	Check	LI 721	LI 231	LI 741	
	65 to 90 F	88 to 15 psig					
Piping			Indicators				

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Wednesday 11-07-2018	Remote monitor Start: 7:00 AM Site Visit start 5:00 PM	Remote Monitor End: 11:30PM Site Visit end 6:00 PM
Condition: Temperature 46- 68	x 🗆 Partly Cloudy	🗆 Balmy	
Precip in the past 48 hrs: 0.	9 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I turned the flare off before I left on Monday and monitored all day Tuesday. Site visit today, the gas is still up and the MT has been running since Monday,

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🛛 Auto 🛛 Hand On 🗌 Off 🗌 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Flush Pumps	□ Auto 🛛 Hand On □ Off □ In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous 🛛 Cycle				
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous	🖾 Both 🗆 Seque	ential		

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	

Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
<i>Fault?</i> □ Yes ⊠ No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		X I N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	Door	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Thursday 11-08-2018	Remote monitor Start: 7:00 AM Site Visit start 5:00 PM	Remote Monitor End: 11:30PM
		Site Visit end 6:00 PM	
Condition: Temperature 46- 68	x 🗆 Cloudy with ligh	🗆 Balmy	
Precip in the past 24 hrs: 0.	inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I turned the flare off before I left on Monday and monitored all day Tuesday. Site visit today, We had a power blip that shut off team viewer, when I got to the site there were no alarms and the computer was back up the skid was just sitting there and not running and the MT was in stand by mode. I started the skid and when it was ready and sending to the MT the MT would not start it was on but not starting. I had to shut off breaker as before and when I turned it back on the MT started automatically. The gas volume is still up, and I will come back tomorrow and we may need to flare. We have Pigs in 8 of the 9 houses loaded one out just now leaving the 8.the MT has been running since Monday,

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🛛 Auto 🛛 Hand On 🖾 Off 🗔 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault
Flush Pumps	🗆 Auto 🛛 Hand On 🗆 Off 🗆 In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗌 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous 🛛 Cycle				
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous	🛛 Both 🗆 Seque	ential		

Actobic Null line Secopeca Notes	Aerobic	Run Time	Set Speed	Notes
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Jet Motive Pump # 1	60Hz	
Jet Motive Pump # 2	60Hz	
Blower	30Hz	
Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🛛 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		⊠Y □N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	0001	7060	
Temperature Data	TE 141 32 to 45 F	TE 311 40 to 115 F	TE 321 35 to 75 F	TE 331 80 to 220 F	TE 341 33 to 45 F	TE 342 65 to 90 F	TE 31 35 to 115 F
Glycol Piping	35.1 TI 141 32 to 45 F	83.1 PI 141 35 to 52 psig	46.6 FI 141 2.5 to 3.5 gpm	186.5 TI 142 35 to 50 F	35.2 PI 142 33 to 50 psig	88.3 TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Friday 11-09-2018	Remote monitor Start: 7:00 AM Site Visit start 1:45 PM	Remote Monitor End: 11:30PM
			Site Visit end 4:00 PM
Condition: Temperature 46- 55 should go down in the 30's tonight	x <a>Cloudy and rair	iy 🗆 Balmy	
Precip in the past 24 hrs: 0.	. 5 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I turned the flare off before I left on Monday and monitored all day Tuesday. Site visit today, we have been running up until around 12:33PM we had a skid fault of high condensate at 741. I reset and restarted skid and the MT came on as it is supposed to at 2:00 PM. I started the flare to run while I am on site as the gas volume is still up. I did a walk around and up on the cover all is well. I installed a replacement fridge today. I received a new camera and will try and install it next week.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Blower	🛛 Auto 🛛 Hand On 🗌 Off 🗍 In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Flush Pumps	□ Auto 🛛 Hand On 🗆 Off 🗆 In Fault
Digester Mixing Pumps	🛛 Auto 🗌 Hand On 🗌 Off 🗌 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🛛 Cycle			
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	□ Continuous				

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Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	
Anaerobic			
Mixing Pump 4A		60 Hz	
Mixing Pump 4B		60 Hz	

Equipment Observed:	Operational Status						
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.		
Fault? 🗆 Yes 🛛 No	20.9						
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out		
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw		
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp		
		⊠Y□N	31.2	29.1	301		

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	0001	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Saturday 11-10-2018	Remote monitor Start: 7:00 AM Site Visit start PM	Remote Monitor End: 11:30PM Site Visit end PM
Condition: Temperature 46- 55 should go down in the 30's tonight	x Cloudy and rair	iy 🗆 Balmy	
Precip in the past 24 hrs: 0.5 inches		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM - 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I monitored remotely all day we had three shutdowns and then late we had a MT fault. No site visit

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxedsymbol{\boxtimes}$ Auto $\oxedsymbol{\square}$ Hand On $\oxedsymbol{\square}$ Off $\oxedsymbol{\square}$ In Fault
Blower	🛛 Auto 🛛 Hand On 🗍 Off 🗌 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Flush Pumps	□ Auto 🛛 Hand On □ Off □ In Fault
Digester Mixing Pumps	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🖾 Cycle			
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous	🖾 Both 🗆 Sequ	iential		

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Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	
Anaerobic			
Mixing Pump 4A		60 Hz	
Mixing Pump 4B		60 Hz	

Equipment Observed:	Operational Status						
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.		
Fault? 🗆 Yes 🛛 No	20.9						
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out		
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw		
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp		
		⊠Y□N	31.2	29.1	301		

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	0001	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Sunday 11-11-2018	Remote monitor Start: 7:00 AM Site Visit start 10:45 AM	Remote Monitor End: 11:30PM
			Site Visit end 12:00 PM
Condition: Temperature 27- 49 should go down to 31 tonight	x 🗆 Sunny-Partly Cl	oudy 🗆 Balmy	
Precip in the past 48 hrs: 0.	0 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM - 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. Site visit to restart the MT I found a fault showing on the screen and the breaker had tripped. I had cut the skid off when the MT was in fault so I restarted it, reset the breaker and opened the Flare valve. Everything restarted as it should have.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$igtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On 🗍 Off 🗍 In Fault
Flush Pumps	🗆 Auto 🛛 Hand On 🗆 Off 🗆 In Fault
Digester Mixing Pumps	🛛 Auto 🗌 Hand On 🗌 Off 🗌 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes		
Static	60	60				
Anoxic	90	90				
Aerobic	180	180				
Blower	🗆 Continuous	🖾 Cycle				
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2					
Digester Pumps	Continuous	Continuous Both Sequential				

Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	
Anaerobic			
Mixing Pump 4A		60 Hz	
Mixing Pump 4B		60 Hz	

Equipment Observed:	Operational Status						
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.		
Fault? 🗆 Yes 🛛 No	20.9						
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out		
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw		
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp		
		⊠Y □N	31.2	29.1	301		

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	0001	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Monday 11-12-2018	Remote monitor Start: 7:00 AM Site Visit start 10:45 AM	Remote Monitor End: 11:30PM
			Site Visit end 12:30 PM
Condition: Temperature 31- 42 we are 36 now at 12:30 PM	x Cloudy and rair	ning 🗆 Balmy	
Precip in the past 24 hrs: 0.	1 inches	Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. Site visit to restart the MT I found a fault showing on the screen and the breaker had tripped. I had cut the skid off when the MT was in fault so I restarted it, reset the breaker and opened the Flare valve. Everything restarted as it should have. This is the same as Sunday. I started the Gravity flow Flare and it is running 10+ CFM even though it does not seem to register on SCADA

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🖾 Auto 🛛 Hand On 🗍 Off 🗍 In Fault:
CP-1 (Control Panel)	$igtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Flush Pumps	□ Auto
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗍 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🛛 Cycle			
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	🗆 Continuous 🗵 Both 🗆 Sequential				

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Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	
Anaerobic			
Mixing Pump 4A		60 Hz	
Mixing Pump 4B		60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	ow Rate Total Flow Comp. Press.		Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🖾 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		⊠Y □N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	DUUI	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Tuesday and Wednesday 11-13-14 -2018	Remote monitor Start: 7:00 AM Site Visit start AM	Remote Monitor End: 11:30PM Site Visit end PM
Condition: Temperature 31- 42 we are 36 now at 12:30 PM	x <a>Cloudy and rair		
Precip in the past 48 hrs: inches		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I started the Gravity flow Flare and it is running 10+ CFM even though it does not seem to register on SCADA and I am glad because we had a shut down on Tuesday.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$igtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🛛 Auto 🛛 Hand On 🗋 Off 🗍 In Fault:
CP-1 (Control Panel)	$igtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Flush Pumps	□ Auto
Digester Mixing Pumps	$oxedsymbol{\boxtimes}$ Auto $\oxedsymbol{\square}$ Hand On $\oxedsymbol{\square}$ Off $\oxedsymbol{\square}$ In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🖾 Cycle			
Jet Motive Pumps	□ Continuous 🛛 Both □ Pump #1 □ Pump # 2				
Digester Pumps	🗆 Continuous 🗵 Both 🗆 Sequential				

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Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	
Anaerobic			
Mixing Pump 4A		60 Hz	
Mixing Pump 4B		60 Hz	

Equipment Observed:	Operational Status				
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.
Fault? 🗆 Yes 🛛 No	20.9				
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp
		⊠Y□N	31.2	29.1	301

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	DUUI	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Thursday 11-15-2018	Remote monitor Start: 7:00 AM Site Visit start 2:30 PM	Remote Monitor End: 11:30PM	
			Site Visit end 5:30 PM	
Condition: Temperature 31- 42 we are 36 now at 12:30 PM	x Cloudy and raining Balmy			
Precip in the past 48 hrs: 2.8 inches		Wind: (mph): calm 4-10m	ph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I started the Gravity flow Flare and it is running 10+ CFM even though it does not seem to register on SCADA and I am glad because we had a shut down on Tuesday. Site visit to restart system it refused but after 3 tries I finally got her going.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	🖾 Auto 🛛 Hand On 🖾 Off 🗍 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto \oxtimes Hand On \oxtimes Off \oxtimes In Fault
Flush Pumps	□ Auto
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗍 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🛛 Cycle			
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous	🛛 Both 🗆 Sequ	ential		

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Aerobic	Run Time	Set Speed	Notes
Jet Motive Pump # 1		60Hz	
Jet Motive Pump # 2		60Hz	
Blower		30Hz	
Anaerobic			
Mixing Pump 4A		60 Hz	
Mixing Pump 4B		60 Hz	

Equipment Observed:	Operational Status						
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.		
Fault? 🗆 Yes 🛛 No	20.9						
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out		
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw		
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp		
		⊠Y □N	31.2	29.1	301		

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Data	-0.1	97.39	91.8	2.0	0001	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Friday 11-16-2018	Remote monitor Start: 7:00 AM Site Visit start 4:00 PM	Remote Monitor End: 11:30PM Site Visit end 5:30 PM
Condition: Temperature 31- 56 we are 41 now at 5:00 PM	x <a>D Cloudy and rair	Site visit end 5.50 TM	
Precip in the past 24 hrs: 0.2 inches		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

Monitored system remotely. 7:00 AM – 11:30 PM and whenever I wake during the night this goes on a 24–7 schedule as needed. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I started the Gravity flow Flare and it is running 10+ CFM even though it does not seem to register on SCADA and I am glad because we had a shut down on Tuesday and Wednesday and died during the evening on Thursday. Site visit to restart system and I found that the skid is not communicating with the SCADA and I am unable to start and stop or monitor skid data. I was able to start the skid and the flare continues to burn on gravity as above. The MT started as it should and is running fine. I will monitor but if we shut down then it will be Sunday before I can manually restart. We need to burn all the gas that we can the volume is high.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxtimes$ Auto $\ \Box$ Hand On $\ \Box$ Off $\ \Box$ In Fault
Blower	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault:
CP-1 (Control Panel)	🛛 Auto 🛛 Hand On \square Off \square In Fault
Flush Pumps	□ Auto 🛛 Hand On □ Off □ In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗍 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes
Static	60	60		
Anoxic	90	90		
Aerobic	180	180		
Blower	🗆 Continuous	🖾 Cycle		
Jet Motive Pumps		🛛 Both 🛛 Pum	p #1 🛛 Pump # 2	
Digester Pumps	Continuous	🛛 Both 🗆 Sequ	ential	

MOTOR DATA:

	Aerobic	Run Time	Set Speed	Notes
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Feb 26 2019

Jet Motive Pump # 1	60Hz	
Jet Motive Pump # 2	60Hz	
Blower	30Hz	
Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status						
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.		
Fault? 🗆 Yes 🛛 No	20.9						
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out		
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw		
Biogas System	BlueSens%	Flare On	Flare Flow	Total Flow	Flare Temp		
		⊠Y □N	31.2	29.1	301		

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC	PIT 331 88 to 110psig	PIT 351 88 to 110 psig	Pressure Differential	Panel Door	HM 331 Hours	
Dala	-0.1	97.39	91.8	2.0	DOOI	7060	
Temperature Data	TE 141 32 to 45 F 35.1	TE 311 40 to 115 F 83.1	TE 321 35 to 75 F 46.6	TE 331 80 to 220 F 186.5	TE 341 33 to 45 F 35.2	TE 342 65 to 90 F 88.3	TE 31 35 to 115 F
Glycol Piping	TI 141 32 to 45 F	PI 141 35 to 52 psig	FI 141 2.5 to 3.5 gpm	TI 142 35 to 50 F	PI 142 33 to 50 psig	TI 111 38 to 52 F	PI 111 30 to 48 psig
Oil Piping	PI 231 90 to 110 psig	TI 231 178 to 215 F	PI 232 85 to 105 psig	TI 232 130 to 180 F	PI 233 80 to 100 psig	TI 233 168 to 185 F	PI 234 78 to 100psig
Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email

IMPORTANT: AN INSPECTION, OPERATIONS & MAINTENANCE LOG SHOULD BE COMPLETED FOR EVERY SITE VISIT; PLEASE REVIEW PREVIOUS LOG ENTRY AND PROVIDE INFORMATION TO UPDATE OR RESOLVE ANY ON-GOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Saturday 11-17-2018	Remote monitor Start: 7:00 AM Site Visit start PM	Remote Monitor End: 11:30PM
			Site Visit end PM
Condition: Temperature 31- 56 we are 41 now at 5:00 PM	x <a>D Cloudy and rair	ning 🛛 Balmy	
Precip in the past 24 hrs: 0. inches		Wind: (mph): calm 4-10m	ph

PURPOSE OF VISIT/ITEMS INSPECTED, OPERVATIONS

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ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	$oxedsymbol{\boxtimes}$ Auto $\oxedsymbol{\square}$ Hand On $\oxedsymbol{\square}$ Off $\oxedsymbol{\square}$ In Fault
Blower	🛛 Auto 🛛 Hand On 🖾 Off 🗌 In Fault:
CP-1 (Control Panel)	$oxtimes$ Auto \Box Hand On \Box Off \Box In Fault
Flush Pumps	🗆 Auto 🛛 Hand On 🗆 Off 🗆 In Fault
Digester Mixing Pumps	🛛 Auto 🛛 Hand On 🗌 Off 🗌 In Fault

CP-1 DATA & SET POINTS;

Cycles	Set Point	Current	Modified Set Pt	Notes	
Static	60	60			
Anoxic	90	90			
Aerobic	180	180			
Blower	🗆 Continuous	🖾 Cycle			
Jet Motive Pumps	□ Continuous ⊠ Both □ Pump #1 □ Pump # 2				
Digester Pumps	Continuous Both Sequential				

Aerobic	Run Time	Set Speed	Notes

Jet Motive Pump # 1	60Hz	
Jet Motive Pump # 2	60Hz	
Blower	30Hz	
Anaerobic		
Mixing Pump 4A	60 Hz	
Mixing Pump 4B	60 Hz	

Equipment Observed:	Operational Status					
Unison Gas Skid	Flow Rate	Total Flow	Comp. Press.	Outlet Press.	Gauge Press.	
Fault? 🗆 Yes 🛛 No	20.9					
Microturbine	Speed	Exit Temp	Inlet Pressure	Inlet Temp	Power Out	
Fault? 🗆 Yes 🖾 No	95852	1174		99	43.7 kw	
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Gas Piping	PIT 311 -10 to10inWC	TI 311 40 to 115 F	TI 321 35 to 75 F	PDI 321 0 to 6 inWC	PI 331 90 to 110 psig	TI 331 80 to 220 F	PI 332 90 to 110psig
Gas Piping	TI 341 80 to 220 F	PI 341 90 to 110 psig	TI 342 115 to 155 F	PI 342 90 to 110 psig	TE 343 33 to 45 F	PI 343 90 to 110 psig	
Gas Piping	TI 351 65 to 90 F	PI 351 88 to 15 psig	Check Indicators	LI 721	LI 231	LI 741	

Name	Affiliation	Phone Number/Email