

LOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Tuesday 10-02-2018	Remote monitor Start: 7:00 AM	Remote Monitor End: 11:30PM
		Site Visit start 9:30 AM	Site Visit end 2:00 PM
Condition: Temperature 64-76	x <input type="checkbox"/> Clear Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.00 inches	Wind: (mph): calm 4-7mph higher during storms		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working so I kept it on the auto cycle. Pumped surface water during site visit. I conducted a tour of Duke Students and professors

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Wednesday 10-03-2018	Remote monitor Start: 7:00 AM	Remote Monitor End: 11:30PM
		Site Visit start 12:30 PM	Site Visit end 2:35 PM
Condition: Temperature 64-85	x <input type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.00 inches	Wind: (mph): calm 4-7mph higher during storms		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working so I kept it on the auto cycle. Pumped surface water during site visit.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Thursday 10-04-2018	Remote monitor Start: 7:00 AM	Remote Monitor End: 11:30PM
		Site Visit start	Site Visit end
Condition: Temperature 64-85	x <input type="checkbox"/> Clear Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.00 inches	Wind: (mph): calm 4-7mph higher during storms		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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. No site visit monitored remotely

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Friday 10-05-2018	Remote monitor Start: 7:00 AM Site Visit start 1:45 PM	Remote Monitor End: 11:30PM Site Visit end 5:00 PM
Condition: Temperature 64-85	x <input type="checkbox"/> Clear Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.00 inches	Wind: (mph): calm 4-7mph higher during storms		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working so I kept it on the auto cycle. Pumped surface water during site visit. Vented at two ports for 2 hours

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Saturday and Sunday 10-06-07-2018	Remote monitor Start: 7:00 AM Site Visit PM	Remote Monitor End: 11:30PM Site Visit PM
Condition: Temperature 64-85	x <input type="checkbox"/> Clear Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.00 inches		Wind: (mph): calm 4-7mph higher during storms	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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. Monitored remotely.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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
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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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

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Entry Made By: Marvin	Date Monday 10-08-2018	Remote monitor Start: 7:00 AM Site Visit start 11:15 AM	Remote Monitor End: 11:30PM Site Visit end 4:10 PM
Condition: Temperature 64-85	x <input type="checkbox"/> Clear Partly Cloudy with showers		<input type="checkbox"/> Balmy
Precip Past 24 hours: 0.00 inches		Wind: (mph): calm 4-7mph higher during storms	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working so I kept it on the auto cycle. Pumped surface water during site visit. Met with Josh Amon to get the repaired Digester Pump installed we worked on getting pumps unclogged we are going to try to run as long as possible but not leave them unattended for a while. Sometimes they clog up and no fluid is being pumped.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

LOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Tuesday 10-09-2018	Remote monitor Start: 7:00 AM Site Visit start 4:15 PM	Remote Monitor End: 11:30PM Site Visit end 6:40 PM
Condition: Temperature 64-85	x <input type="checkbox"/> Clear Partly Cloudy with showers		<input type="checkbox"/> Balmy
Precip Past 24 hours: 0.30 inches @12:10 PM	Wind: (mph): calm 4-7mph higher during storms		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. I changed the timers and after the Digester pump restarted with a prime I am going to try it through the evening.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Wednesday 10-10-2018	Remote monitor Start: 7:00 AM Site Visit start10:15 AM	Remote Monitor End: 11:30PM Site Visit end4:30 PM
Condition: Temperature 64-75	x <input type="checkbox"/> Clear Cloudy with showers <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.50 inches @12:07PM	Wind: (mph): calm 4-7mph higher during storms		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. I changed the timers and after the Digester pump restarted with a prime I am going to try it through another evening.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Thursday 10-11-2018	Remote monitor Start: 7:00 AM Site Visit start 12:15 PM	Remote Monitor End: 11:30PM Site Visit end 4:30 PM
Condition: Temperature 64-75	x <input type="checkbox"/> Cloudy with showers and wind		<input type="checkbox"/> Balmy
Precip Past 28 hours: 3.20 inches @ 4:07PM		Wind: (mph): calm 4-7mph higher during storms	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. I changed the timers and after the Digester pump restarted with a prime I am going to try it through another evening. Heavy rains from Michael with some flooding in the ditch Mr. Bryant not happy with the ditch. Lost power for an hour or so all back running and seeing breaks in the clouds

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Friday 10-12-2018	Remote monitor Start: 7:00 AM Site Visit start 1:00 PM	Remote Monitor End: 11:30PM Site Visit end 4:15 PM
Condition: Temperature 64-75	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.00 inches @4:07PM		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. I changed the timers and after the Digester pump restarted with a prime I am going to try it through another evening. The Flare continues to run on gravity gas flow of 8-10 CFM I needed to vent today at two ports for 2.5 hours

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Saturday and Sunday 10-13-14-2018	Remote monitor Start: 7:00 AM Site Visit start 1:00 PM	Remote Monitor End: 11:30PM Site Visit end 4:15 PM
Condition: Temperature 64-75	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past hours: 0.00 inches		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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. Monitoring the flare.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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Entry Made By: Marvin	Date Monday 10-15-2018	Remote monitor Start: 7:00 AM Site Visit start 2:00 PM	Remote Monitor End: 11:30PM Site Visit end 5:15 PM
Condition: Temperature 64-75	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 72 hours: 0.20 inches @5:07PM		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. 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	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Tuesday 10-16-2018	Remote monitor Start: 7:00 AM Site Visit start PM	Remote Monitor End: 11:30PM Site Visit end PM
Condition: Temperature 64-75	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 72 hours: 0.0 inches @PM		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Wednesday 10-17-2018	Remote monitor Start: 7:00 AM Site Visit start 3:15 PM	Remote Monitor End: 11:30PM Site Visit end 6:00 PM
Condition: Temperature 64-75	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 48 hours: 0.10 inches @5:50PM		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. 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	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Thursday 10-18-2018	Remote monitor Start: 7:00 AM Site Visit start PM	Remote Monitor End: 11:30PM Site Visit end PM
Condition: Temperature 64-75	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 72 hours: 0.0 inches @PM		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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.

ENVIRONMENTAL SYSTEM OBSERVATIONS:

Equipment Observed:	Operational Status
Fluidyne Aeration System, Including:	
Jet Motive Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Friday 10-19-2018	Remote monitor Start: 7:00 AM Site Visit start 2:15 PM	Remote Monitor End: 11:30PM Site Visit end 4:45 PM
Condition: Temperature 46-68	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 48 hours: 0.0 inches @5:50PM		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I worked on Drainage some. 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	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Saturday and Sunday 10-20-21-2018	Remote monitor Start: 7:00 AM Site Visit start	Remote Monitor End: 11:30PM Site Visit end
Condition: Temperature 46-68	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip	Wind: (mph): calm 4-10mph		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Monday 10-22-2018	Remote monitor Start: 7:00 AM Site Visit start 1:15 PM	Remote Monitor End: 11:30PM Site Visit end 4:30 PM
Condition: Temperature 37-62	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 48 hours: 0.0 inches @5:50PM		Wind: (mph): calm 4-10mph	

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I worked on Drainage some. 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	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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 ONGOING ISSUES NOTED (INCLUDING BUT NOT LIMITED TO MAINTENANCE, REPAIRS, OR CORRECTIVE ACTIONS).

Entry Made By: Marvin	Date Tuesday 10-23-2018	Remote monitor Start: 7:00 AM Site Visit start 10:30 AM	Remote Monitor End: 11:30PM Site Visit end 1:00 PM
Condition: Temperature 42-70	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.0 inches @5:50PM	Wind: (mph): calm 4-10mph		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. The timers are working well with the restart of the Digester pumps. I am going to leave them as they are for now. I worked on Drainage some. 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	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email

4ALOYD RAY FARMS INSPECTION, OPERATIONS & MAINTENANCE LOG SHEET

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Entry Made By: Marvin	Date Wednesday 10-24-2018	Remote monitor Start: 7:00 AM Site Visit start 11:00 AM	Remote Monitor End: 11:30PM Site Visit end 1:00 PM
Condition: Temperature 39-64	x <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Balmy		
Precip Past 24 hours: 0.0 inches @1:00PM	Wind: (mph): calm 4-10mph		

PURPOSE OF VISIT/ITEMS INSPECTED, OPERATIONS

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 to do a system and ground check and found our digester pump still working. Pumped surface water during site visit. 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	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Blower	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault:
CP-1 (Control Panel)	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Flush Pumps	<input type="checkbox"/> Auto <input checked="" type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> In Fault
Digester Mixing Pumps	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Hand On <input type="checkbox"/> Off <input type="checkbox"/> 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	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Cycle			
Jet Motive Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Pump #1 <input type="checkbox"/> Pump # 2			
Digester Pumps	<input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Both <input type="checkbox"/> Sequential			

MOTOR DATA:

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	

BIOGAS & POWER SYSTEMS OBSERVATIONS:

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

UNISON GAS CONDITIONING LOG

Pressure Data	PIT 311 -5 to 10 inWC -0.1	PIT 331 88 to 110psig 97.39	PIT 351 88 to 110 psig 91.8	Pressure Differential 2.0	Panel Door	HM 331 Hours 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 to 10inWC	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	

PERSONNEL PRESENT:

Name	Affiliation	Phone Number/Email