



Birchhill Canada
 1-9-43-13-W5M
 Contact: Kevin Schatz
 Office #:
 Cell #: 1-403-815-3801
 Fax #:

Work Order #: N/A
Hazard Assessment #(s): N/A
Safe Work Permit: N/A
Additional Ref. #: N/A
Gas Permit #: N/A
Date: 14-Mar-2019

Authorizing Body: N/A

Phone: (780) 853-5340

Box 3694 Vermilion, Alberta

<http://www.kenilwo>

Fax: (780) 853-5320

T9X 2B7

Direct Dispatch: 1-866-744

Description:

Field Commissioning

Burner Information	
Type: Eclipse Conventional	Fuel Type: Raw Gas
Size: 3"	Orifice Jet: N/A
Nozzle Type: Stick Type	Orifice Spud: E
Barrel Type / Combination:	Max. Press.: 14 PSI
Sleeve With Compound	Min. Press.: 5 PSI
Pilot Type/Style: ACL	Pilot Press.: 5 PSI
Burn Back Protection: No	Pilot Orifice: 70
CSAB 149.3 - 10 Compliant: Yes	

BMS Type: ACL 5100	Electrical Spec: 24VDC
BMS Serial #: 021312-09	Mod Bus: N/A
Pre Purge Time: N/A sec.	General Alarm: Lock Out
Start w/ Power: No	Hi Temp Alarm: Lock Out
Remote Start: No	Lo Level Alarm: Lock Out
Soft Start: No	Hi Gas Alarm: Lock Out
Low Fire Start: Yes	Lo Gas Alarm: Lock Out
Low Fire Timer: 10sec sec.	CSAB 149.3 - 10 Compliant: No

Firetube Information																			
Discharge Design: 3 piece miter	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Internal Skin Temperatures</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">N/A C</td> </tr> <tr> <td style="text-align: center;">N/A C</td> <td style="text-align: center;">N/A C</td> <td style="text-align: center;">N/A C</td> </tr> <tr> <td colspan="3" style="text-align: center;">N/A C</td> </tr> <tr> <td colspan="2" style="text-align: center;">Highest Skin Temp</td> <td style="text-align: center;">N/A C</td> </tr> <tr> <td colspan="2" style="text-align: center;">Distance from Nozzle:</td> <td style="text-align: center;">N/A C</td> </tr> </tbody> </table>	Internal Skin Temperatures			N/A C			N/A C	N/A C	N/A C	N/A C			Highest Skin Temp		N/A C	Distance from Nozzle:		N/A C
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N/A C		N/A C	N/A C																
N/A C																			
Highest Skin Temp		N/A C																	
Distance from Nozzle:		N/A C																	
Tube Diameter: 20 inches																			
Tube Length: 24 feet																			
Stack Size: 20 inches																			
Stack Height: 20 feet																			
Orientation: Horizontal	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Tube Condition:</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Klinker Buildup:</td> <td style="text-align: center;">No</td> </tr> </tbody> </table>	Tube Condition:	1	Klinker Buildup:	No														
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Klinker Buildup:		No																	
Return Side: No																			
Internal Baffle: No																			
Stack Cap: Yes																			
Stack Dampener: No																			
Stack Therm.: No																			
Impingement: No																			
Tube Distorted: No																			



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Middle Line Heater U-5100



Firebox Information	
Type: Wenco	Size: 38"
Serial #: 0612-662	
Condition of Seals / Gasket: Fair	
Arrestor Size: 38	Number: 1
Arrestor Cond.: Fair	Hole Size: .063
Flashback Test: No	When: _____
CSAB 149.3 - 10 Compliant: Yes	

Vessel Information	
Type: Line Heater	Size: 72" x 24'
Serial #: 12-032-CB	
Fluid Temp: N/A	BS+W: N/A%
Fluid Level: N/A	H2O Level: N/A
Inlet Temp.: N/A	Thermowell: N/A
Discharge Temperature: N/A	
H2O Discharge Temperature: N/A	

Valve Train Information	
Main Regulator: Fisher 627R	Main ESD: ACL POC
Pilot Regulator: Fisher 67CFR	Pilot ESD: ASCO
Proof of Closure: Yes	
Temp. Control: Kimray T12	Set @ 40c C
PRV/PSV Size: N/A SN#: N/A	
Hi Temp Shutoff: CCS	Set @ 90c C
Flame Fail Type: Ionization	Set @ 3.8
Thermocouple: N/A	
Lo Fire Solenoid: Yes	
Orifice Plate: N/A	BTU Input: N/A
Soft Start: N/A	
Lo Level Shutoff: Linc	Set @ Surge
Hi Level Shutoff: N/A	Set @ N/A
L. Press. Switch: UE	Set @ 17.5Psi
H. Press. Switch: UE	Set @ 2.5Psi
CSAB 149.3 - 10 Compliant: Yes	



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After Service

Burner Settings	Internal Skin Temperatures
Orifice Jet: N/A	N/A C
Orifice Spud: E	
Main Fuel: N/A	N/A C N/A C N/A C
14Psi Max PSI 5Psi Min PSI	
2nd Fuel: N/A	N/A C
N/A Max PSI N/A Min PSI	
Max BTU - Current: 2.02mm	Highest Skin Temp
Potential: 2.5mm	Distance from Nozzle: N/A C

	Before	High	Low
Date		14-Mar-2019	14-Mar-2019
Time		09:47:45 AM	09:47:47 AM
O2 (%)		7.21	11.01
CO (PPM)		0	0
PRS		14Psi	5Psi
Eff (%)		73	71
XAir (%)		79	132
CO2 (%)		7.85	6.95
NO (PPM)		43	38

	Before	High	Low
NO2 (PPM)			
NOx (PPM)		45	41
SO2 (PPM)			
Flue (C)		403	301
Inlet (C)			
Natural Gas			
Raw Gas		E	E
Propane			
Flue CFM			

Pre-Service Comments

- Found pilot solenoid installed backwards
- Re-tubed hi pressure switch to downstream of control valve
- No appliance valve was installed so we cut one in
- Finished the shutdown wiring and tested shutdown circuit

After-Service Comments

- Field Commissioning - Commissioning of process heater assembly
- Field Commissioning - Verified all fuel gas supply regulators have correct orifice, spring range and pressure correctly adjusted
- Field Commissioning - Verified correct fastening and alignment of main burner and pilot burner
- Field Commissioning - Verified correct safety relief valve is installed in gas supply system
- Field Commissioning - Verified valves are installed correctly checking flow direction
- Field Commissioning - Verify gas line is properly marked and identified
- Field Commissioning - Verify high temperature trip calibration
- Field Commissioning - Verify low bath level trip function
- Field Commissioning - Verified correct bath temperature set-point
- Field Commissioning - Verified bath is to correct level
- Field Commissioning - Verified all ports to firebox are appropriately sealed and the flame arrestor is in good condition
- Field Commissioning - Purge process heater gas lines and proceed with start up



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Safety Checklist	
Burner Adjusted as per Manual:	<u>Yes</u>
Pri./Sec. air dampener secured:	<u>Yes</u>
Firebox Closed - good seal made:	<u>Yes</u>
Regulator Set & Secured:	<u>Yes</u>
Any System Deficiencies:	<u>No</u>
Owner Notified of Actions Taken:	<u>Yes</u>
Site Cleanup Complete:	<u>Yes</u>
Tools & Equipment Stored:	<u>Yes</u>
All Parts Accounted For:	<u>Yes</u>
All Reports Complete:	<u>Yes</u>



