



Heater Assessment

Nº 109709.101

Date: January 16, 2025

Company: **ENERGERA INC**
Contact: **DUSTIN**
Position:
Phone: **+1 780 218 3402**
Email: **DNEUBAUER@ENERGERA.COM**
Request: **CHECK OVER LINEHEATER FOR MAXIMUM HEAT OUTPUT**

Country: **CANADA** Province: **AB**
Area: **FOX CREEK**
Location: **16-16-61-18-W5**
Vessel ID: **LINE HEATER**
Technician: **KEITH FIELDS**
Sales Mgr: **CHRIS JAMES +1 587 763 0334**
Region: **CANADA – WEST (AB/BC)**
Type of Work: **TROUBLESHOOTING**
JSA Filled: ☐ YES ☐ NO
Results: **SMALL ADJUSTMENT MADE TO BURNER TUNING. CO WAS REALLY HIGH SO I OPENED THE PRIMARY AIR SHUTTER TO ADD MORE OXYGEN. BURNER IS RUNNING TO THE MAX OUTPUT. SUSPECT WET FUEL A NUMBER OF DAYS AGO WHICH CAUSED THE BURNER TO STRUGGLE TO KEEP UP TO TEMP. THE MAIN BURNER ORIFACE MIGHT HAVE EVEN HAD AN ICE PLUG IN IT. I WOULD ALSO SUGGEST ADDING A MODULATING VALVE TO THE FUEL TRAIN TO ACCOMPLISH TWO THINGS**
1: HIGH FIRE/ LOW FIRE
2: LESS ON/ OFF CYCLING.

Heater Information

Site Description:
Site Elevation:
Heater Type: ☐ FORCED DRAFT ☐ NATURAL DRAFT
☐ DIRECT ☐ INDIRECT
Field Type:
Equipment Name:
Manufacturer:
Model/Serial:
Dimensions: Length:
Width:
Height:
Tag:
Appliance Rated Maximum Input:
Process Duty:
Combustion Air:
Burner Count:
Heater Style:
Other Heater Style:
Heat Medium:
Field Inspected: ☐ YES ☐ NO ☐ PENDING

Burner System

Fire Tube:
BTU Tagged: Diameter: Gas Type:
Condition: Length: Estimated Efficiency:
BTU Calculated: Flux: **10,000 BTU/ft²** Running Pressure:
Air System: Arrestor Size:
Make: Condition:
Model: Placement:
Secondary Air: View Port:
Make: Stack Inside Diameter:
Model: Stack Height:
Burner: Size:
Make: Orifice:
Model: Length:
NZL: Length into Process:
Pilot: Size:
Make: Orifice:
Model:
NZL:

Utilities

Fuel Gas Type: ☐ UTILITY ☐ SITE MANUFACTURED ☐ NATURAL GAS ☐ PROPANE ☐ OTHER...
Other:
Fuel Gas Quality: ☐ DRY ☐ WET ☐ SWEET ☐ SOUR H2S Content:
Fuel Gas Supply:
PSV Setpoint:
Power Supply:
Instrument Pneumatic Type: ☐ AIR ☐ GAS Pressure:
BMS Area Classification:

Fuel Train Area Classification: ☐ INDOOR ☐ OUTDOOR
65Y Ambient Min. / Max. Temperature:
Fuel Train P&ID:

BMS Instrumentation

Flame Sensor: Style: ☐ IONIZATION ☐ SCANNER
Model:
Ignition: ☐ HIGH VOLTAGE ☐ OTHER...
Ignition Common with Ionization Rod: ☐ YES ☐ NO
Controls: 4-20: ☐ YES ☐ NO
Modbus Communication: ☐ YES ☐ NO

Flame Cell Test: ☐ PASS ☐ FAIL

Comments:

Fuel System

Upstream Regulator: ☐ YES ☐ NO

Make: Orifice Size:
Model: Spring Range:

Appliance Regulator:

Make: Orifice Size:
Model: Spring Range:

Pressure Relief Valve (PSV): ☐ YES ☐ NO

Make: Inlet Pressure:
Model: Setpoint:

Burner Manual Valves:

Make: Appliance Isolation Valve: ☐ YES ☐ NO
Model: Test Firing Valve: ☐ YES ☐ NO

Safety Shutoff Valves (SSOV):

Make: Control Method: ☐ ELECTRIC ☐ PNEUMATIC
Model: Proof of Closure (POC): ☐ YES ☐ NO
Position Indication: ☐ YES ☐ NO

Safety Vent Valve (SVV): ☐ YES ☐ NO

Make: Control Method: ☐ ELECTRIC ☐ PNEUMATIC
Model: Position Indication: ☐ YES ☐ NO

Input Flow Control Valve (IFCV):

Make: 4-20 Present: ☐ YES ☐ NO
Model: Control Method: ☐ ELECTRIC ☐ PNEUMATIC
Position Indication: ☐ YES ☐ NO

Pilot Regulator:

Make: Orifice Size:
Model: Spring Range:

Pilot Manual Valves:

Make: Pilot Isolation Valve: ☐ YES ☐ NO
Model: Test Firing Valve: ☐ YES ☐ NO

Pilot Safety Shutoff Valve(s) (SSOV):

Make: Control Method: ☐ ELECTRIC ☐ PNEUMATIC
Model: Position Indication: ☐ YES ☐ NO

Heater Instrumentation

Fuel Gas LOLO Sensor:

Make: Style: ☐ TRANSMITTER ☐ SWITCH
Model: Setpoint:

Fuel Gas HIHI Sensor:

Make: Style: ☐ TRANSMITTER ☐ SWITCH
Model: Setpoint:

Temperature Sensors:

Process Control:	☐ TRANSMITTER	☐ TC	☐ RTD	☐ SWITCH	Setpoint:
Process HIHI:	☐ TRANSMITTER	☐ TC	☐ RTD	☐ SWITCH	Setpoint:
Outlet Control:	☐ TRANSMITTER	☐ TC	☐ RTD	☐ SWITCH	Setpoint:
Stack HIHI:	☐ TRANSMITTER	☐ TC	☐ RTD	☐ SWITCH	Setpoint:
Other:	☐ TRANSMITTER	☐ TC	☐ RTD	☐ SWITCH	Setpoint:
Other:	☐ TRANSMITTER	☐ TC	☐ RTD	☐ SWITCH	Setpoint:

Process Fluid Level Sensor: ☐ YES ☐ NO

Make: Type:

Model: _____

Process Fluid Flow Sensor: ☐ YES ☐ NO

Make: _____ Type: _____

Model: _____

Combustion Air Instrumentation

Building Fresh Air Louvres: ☐ YES ☐ NO

Preheated: ☐ YES ☐ NO

Building Ventilation Louvre (e.g. at ceiling): ☐ YES ☐ NO

Combustion Air Flow LOLO Sensor: _____ ☐ TRANSMITTER ☐ SWITCH

Make: _____ Style: _____

Model: _____

Combustion Air Flow Control Valve: _____

Make: _____

Model: _____

Valve Style: ☐ BUTTERFLY ☐ GLOBE

Control Method: ☐ ELECTRIC ☐ PNEUMATIC

Position Indication: ☐ YES ☐ NO

Additional BMS Fan(s): _____

Additional Fan(s) Description: _____

Burner

Readings	Burner 1			Burner 2			Burner 3		
	Initial	Final	Note	Initial	Final	Note	Initial	Final	Note
Fuel Line Pressure:	12	12							
Pilot Pressure:	4	4							
Oxygen - O ₂ : %	0	1							
Carbon monoxide - CO: PPM	30000	88							
Carbon dioxide - CO ₂ : %	14.3	11.80							
Nitric oxide - NO: PPM									
Stack Temperature:	937	1107.7							
Excess Air: %	0	1							
Stack Draft:	-0.117	-0.215							
Combustion Efficiency: %	54.2	67.4							

Comments: SMALL ADJUSTMENT MADE TO BURNER TUNING. CO WAS REALLY HIGH SO I OPENED THE PRIMARY AIR SHUTTER TO ADD MORE OXYGEN. BURNER IS RUNNING TO THE MAX OUTPUT. SUSPECT WET FUEL A NUMBER OF DAYS AGO WHICH CAUSED THE BURNER TO STRUGGLE TO KEEP UP TO TEMP. THE MAIN BURNER ORIFACE MIGHT HAVE EVEN HAD AN ICE PLUG IN IT. I WOULD ALSO SUGGEST ADDING A MODULATING VALVE TO THE FUEL TRAIN TO ACCOMPLISH TWO THINGS
1: HIGH FIRE/ LOW FIRE
2: LESS ON/ OFF CYCLING.

Recommendations:

Call Your Profire Sales Manager: **CHRIS JAMES +1 587 763 0334**



Job Ticket: Work Summary

Date: **№ 109709**
January 16, 2025

Customer PO:
Customer WO:
Customer Information: **ENERGERA INC**

Lead Technician: **KEITH FIELDS**
Helper(s):

DUSTIN,
area: FOX CREEK
phone: +1 780 218 3402
e-mail: dneubauer@energera.com

Location: **16-16-61-18-W5**
Vessel: **LINE HEATER**
Fulfillment Technician: **KEITH FIELDS**
Heater Assessment Date: **2025-01-16**
Scope of Work: **CHECK OVER LINEHEATER FOR MAXIMUM HEAT OUTPUT**
Result of Work: **SMALL ADJUSTMENT MADE TO BURNER TUNING. CO WAS REALLY HIGH SO I OPENED THE PRIMARY AIR SHUTTER TO ADD MORE OXYGEN. BURNER IS RUNNING TO THE MAX OUTPUT. SUSPECT WET FUEL A NUMBER OF DAYS AGO WHICH CAUSED THE BURNER TO STRUGGLE TO KEEP UP TO TEMP. THE MAIN BURNER ORIFACE MIGHT HAVE EVEN HAD AN ICE PLUG IN IT. I WOULD ALSO SUGGEST ADDING A MODULATING VALVE TO THE FUEL TRAIN TO ACCOMPLISH TWO THINGS**
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Assigned Technician Name
KEITH FIELDS

JOB TICKET CUSTOMER SIGN-OFF
By signing, the customer agrees that this job is fulfilled completely by Profire Energy and that the customer understands that this Job Ticket and any associated Heater Assessments are preliminary and may have amendments in their final release

Assigned Technician Signature

Customer Contact Signature


2025-01-26 6:15:07 PM

Date Signed

Customer Contact Name: **DUSTIN**
Contact Phone Number: **+1 780 218 3402**
Contact E-Mail: **dneubauer@energera.com**

Date Signed



Job Ticket: Rate Sheet

Date: **№ 109709**
January 16, 2025

Customer PO:
Customer WO:
Customer Information: **ENERGERA INC**
DUSTIN,
area: FOX CREEK
phone: +1 780 218 3402
e-mail: dneubauer@energera.com

Lead Technician: **KEITH FIELDS**
Helper(s):

Call Out: ☒ **YES** ☐ **NO**

EXPENSE DATE: LEAD TECHNICIAN

PART NUMBER	DESCRIPTION	PRICE	QTY	UOM	EXTENDED	LOCATION	H.A. NUMBER
2025-01-16: KEITH FIELDS							
4211	General Technician Service 1 Man Rate	110.00	8	HR	880.00	16-16-61-18-W5	109709.101
4213	Mileage		425	KM	0.00	16-16-61-18-W5	109709.101
Sub-Group Total					880.00		
THE DAY'S TOTAL					880.00		
JOB TOTAL					880.00		



Profire Combustion Inc DBA Profire Energy Inc
9671 283 Street
Acheson AB T7X 6J5

SALES ORDER CONFIRMATION

Order ID # 82321

DATE 2025-01-16

CUSTOMER INFORMATION

Energera Inc
11551 Bevington Road
Acheson AB T7X 6C1

Contact Name dneubauer@energera.com
Phone Number 780-218-3402

SHIPPING INFORMATION

Energera Inc
11551 Bevington Road
Acheson AB T7X 6C1

REP	PURCHASE ORDER #	ORDER DATE	SHIP DATE	SHIP VIA
Carlos Santana	23584	2025-01-16	2025-01-17	

ITEM	DESCRIPTION	QTY	U/M	PRICE	AMOUNT
	EDNA DTS 109709 Call Out				
	LSD: 16-16-61-18-W5 Fox Creek				
4211	General Technician Service 1 Man Rate	8	Hr	110.00	880.00
4213	Mileage	425	MI	1.40	595.00

**Refer to www.profireenergy.com/pfconnect for our data terms

Note that our Warranty and Return Policy was updated on July 1, 2024.
Please refer to www.profireenergy.com/warranty/ for full terms.

Subtotal	\$1,475.00
Tax	\$73.75
Total	\$1,548.75

CONTACT INFORMATION

Phone 780-960-5278

THANK YOU FOR YOUR BUSINESS!

www.profireenergy.com

TERMS: PREPAY GST# 859665317



82321