



HAWKEYE INSPECTION, LLC
Consulting and Services - Evanston, Wyoming

Pure Energy Services (USA)
380 Jamison Drive
Evanston, WY 82930

Report Date – 1/12/2011

Inspection Report for: LH-0010 Line Heater

Manufacturer: Bluestar Welding (A Division of 570147 ALTA. Ltd.)

Mfg. Serial Number: BS10K4MM-05A and BS10K4MM-05B (2 Coils)

Year Built: 2005

National Board Number: None

Alberta Registration: 514078 and 514079

CRN Number: ALD-05-001



PRESSURE VESSEL INVENTORY FORM

☐ Code ☐ Code-invalidated ☐ Non-Code ☐ Unknown ☒ Code-Exempt

☐ High Consequence (HCO) ☐ Medium Consequence (MCO) ☐ Low Consequence (LCO)

VESSEL ID INFORMATION

Company Name : Pure Energy
Facility/Location Name :
Field Name :
Equipment Number :
Eq/Circ. ID : LH0010-C1/LH0010-C2
Equipment Name/Service : LH-0010 Line Heater (w/two coils)
Physical Location : Evanston Yard
GPS Coordinates :

VESSEL DESCRIPTION AND SERVICE CONDITIONS

Type of Vessel: Line Heater

Vessel Size:

Operating Pressure Range (psig):

Operating Temperature Range (°F):

Does the vessel have Internal Access? ☒ Yes ☐ No

Specify type of internal access, if available: into heater box with coils removed

Vessel is located: ☐ Inside ☒ Outside ☐ Under Roof

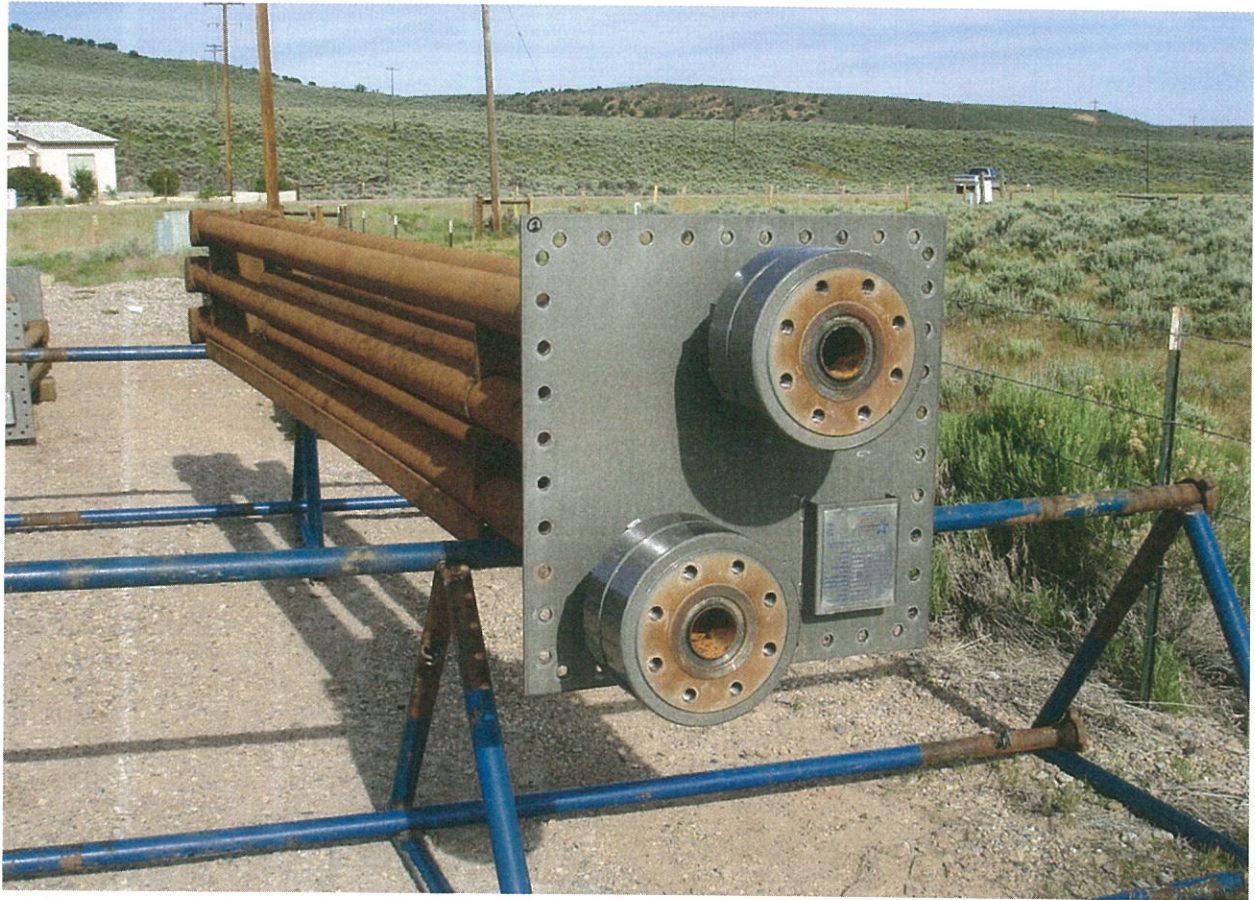
MISCELLANEOUS VESSEL INFORMATION

ORIGINAL VESSEL NAMEPLATE/STAMPING INFORMATION

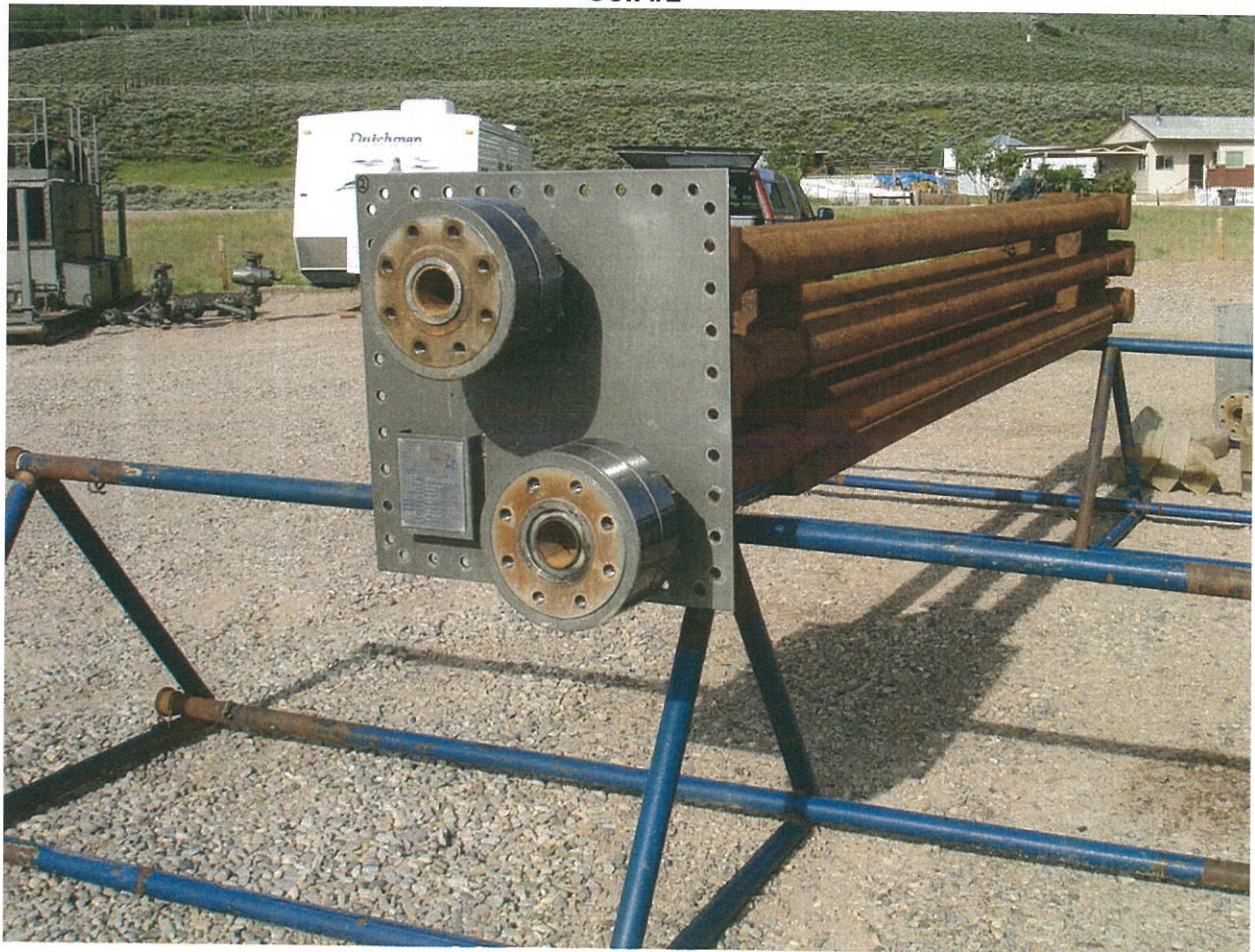
Code stamp: ☐ U stamp ☐ U2 stamp ☐ UM stamp ☐ API-ASME ☒ No stamp

Coil #1

<div>RTI W HT</div>		MANUFACTURED & CERTIFIED BY:	
		BLUESTAR WELDING 	
GRANDE PRAIRIE, AB., CANADA 			
1-780-532-1160			
A-NUMBER	A514078		
SERIAL No.	BS10K4MM-05A		
JOB No.	10252-P		
DESIGN PRESSURE	10000 PSI		
M.A.W.P.	10000 PSI		
DESIGN TEMP. MINIMUM	-40°F		
CORROSION ALLOWANCE	0.125 IN.		
DESIGN TEMP. MAXIMUM	130°F		
CRN No.	ALD-05-001		
YEAR BUILT	2005		
STEAM COIL M.A.W.P.		@	°F



Coil #2




RTI
W
HT

MANUFACTURED &
CERTIFIED BY:

BLUESTAR
WELDING



GRANDE PRAIRIE, AB., CANADA 
1-780-532-1160

A-NUMBER

A 514079

SERIAL No.

ES10K4MM-05 B

JOB No.

10252-P

DESIGN PRESSURE

10000 PSI

M.A.W.P.

10000 PSI

DESIGN TEMP. MINIMUM

-40°F

CORROSION ALLOWANCE

0.125 IN.

DESIGN TEMP. MAXIMUM

180°F

CRN No.

ALD-05-001

YEAR BUILT

2005

STEAM COIL M.A.W.P.

@ °F

API 510 PRESSURE VESSEL EXTERNAL INSPECTION REPORT

Company Name: Pure Energy Services (U.S.A.) Inc.	
Facility/Location Name: Pure Yard – Evanston, WY	
Equipment Number: LH-0010	Eq/Circ. ID: LH0010-C1 & LH0010-C2
Equipment Name/Service: Line Heater	
Physical Location: Evanston Yard for Maintenance	
Manufacturer: Blue Star Welding (Division of 570147 ALTA Ltd.)	Manufacturer Serial Number: 2 coils BS10K4MM-05A and BS10K4MM-05B
Year Built: 2005	National Board Number: None
Canadian Reg. Number: ALD-05-001	Alberta Reg. Number: 514078 and 514079

Reason for Inspection: Scheduled API-510 External Inspection. Code exempt equipment – inspected as customer request.

Condition of Nameplate and/or Bracket: Both nameplates are missing. The nameplate for A 514078 was found next to the coil. The nameplate for A 514079 was located near the firetube.

Internal Access: Yes, into heater box with coils removed.

Corrosion Monitoring Locations (CMLs) and baseline thickness data established: Yes

Grounding Device in Place and Secure? N/A, the equipment was not in service at the time of this inspection.

Condition of Foundation and Anchor Bolts: The heater is mounted on a skid unit. The skid assembly is in good condition with no corrosion or distortion. All structural welds are sound with no visual weld defects.

Condition of Steel Supports, Saddles, and Bolting: The internal coil support structure has light corrosion and scale but no distortion. The overall support structure is in acceptable condition.

Condition of Paint and/or Insulation: The paint is in good condition with no chipping or peeling.

Condition of Nozzles, Flanges, Repads, and Weepholes: All nozzles and flanges are in excellent condition with no sand-cutting and only light corrosion (the equipment was disassembled at the time of this inspection. A visual inspection was performed on the nozzle I.D.'s)

Condition of Welds; Head and Shell Metal Surfaces: External surfaces are painted and appear in excellent condition with no damage and no evidence of corrosion beneath the paint coating. The coil pressure boundary welds have no visual weld defects. The horizontal fire tube welds appear sound with no obvious defects.

Condition of Ladders, Stairways, and Brackets: The skid access ladder and platform are secure. There is no distortion or corrosion.

If Equipment has Anomalous Data, did the Inspector check it? N/A

Is There a PSV on the Vessel?: No

If yes, is it set at or below the MAWP?:

Date PSV last tested (if there is a tag on the valve):

Comments:

Coils: Both coil assemblies have moderate scale corrosion and pitting. Average pitting depth is 0.040". The deepest measured pit was 0.080". None of the pit depths exceed corrosion allowance. The coil support brackets and tubesheets have light corrosion. Bracket bolting is stainless steel and is all in place and secure. Overall, the coil assemblies are in acceptable condition. Corrosion is more prominent on coil A 514079. UT readings were taken where obtainable-no direct correlation to past point locations.

Recommendations:

- 1) Reinstall nameplates on Coil A 514078 and A 514079. (Completed at the time of this inspection.)

Repairs Needed:

None

API 510 Inspector Signature
Robert W. Menke

API 510 Inspector Number
0131

Date
01/12/2011