



CAPE MANUFACTURING Ltd.

Box 216
Halkirk, Alberta
Canada
T0C 1M0
www.capemfg.ca

Calgary Sales: 403-539-0850
Halkirk Plant: 403-884-2442
Calgary Direct: 403-279-1811
sales@capemfg.ca

QUALITY CONTROL DOCUMENTATION



DESCRIPTION	3.0MM BTU LINEHEATER-RECERTIFY PSV & TESTFIRE
LSD LOCATION	16-20-43-13 W5M Brazeau River
CAPE JOB #.	CML-170693
CRN #.	P9417.213
S/N:	08806-002-A
A #.	A-631821
DATE OF MANUFACTURE	NOVEMBER 2017
MANUFACTURED FOR	BIRCHILL CANADA LTD. PARTNERSHIP

"Passionate People Producing Premium Products"

Certificate of Authorization Permit

Quality Management System

Expiry Date: **August 20, 2020**

Reg. No.: **AQP-1529**

CAPE MANUFACTURING LTD.

**LSD 16-01-40-16-W4M
HALKIRK, ALBERTA**

having complied with the provisions of the SAFETY CODES ACT, is hereby authorized to perform the activities identified in the following table:

	<u>Construction</u>	<u>Repair</u>	<u>Alter</u>
Pressure Vessels			
ASME Section VIII-1 Pressure Vessels	Shop	Shop/Field	Shop/Field
Miniature Vessels in accordance with CSA B51	Shop	---	---
Indirect Fired Heater Coils			
ASME B31.3 Indirect Fired Heater Coils	Shop/Field	Shop/Field	Shop/Field
Pressure Piping			
ASME B31.1 Power Piping	Shop/Field	Shop/Field	Shop/Field
ASME B31.3 Process Piping	Shop/Field	Shop/Field	Shop/Field
Fittings			
Category A,E,H	Shop/Field	Shop/Field	Shop/Field

As a condition of this permit, the holder is required to participate in interim audits by a safety codes officer to verify that the quality management system is being maintained in a manner acceptable to a safety codes officer.

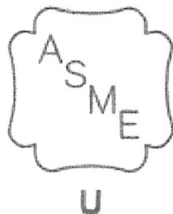
Dated at Edmonton, this 10th day of July, 2017



W. Bell

Chief Inspector and Administrator

Certificate No.: 12068



CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Cape Manufacturing Ltd.
LSD 16-01-40-16-W4M
Halkirk, Alberta, T0C 1M0
Canada

SCOPE:

Manufacture of pressure vessels at the above location only

AUTHORIZED:

July 6, 2017

EXPIRES:

August 20, 2020

CERTIFICATE NUMBER: 31,246

A handwritten signature in black ink, appearing to read 'Richard R. Stevenson'.

Board Chair, Conformity Assessment

A handwritten signature in black ink, appearing to read 'Joseph J. Loebl'.

Director, Conformity Assessment



Partnerships

IN INJURY REDUCTION

Certificate of Recognition

This certificate recognizes that

CAPE MANUFACTURING LTD.

In keeping with the principles of *Partnerships* has:

- developed and implemented an occupational health and safety program and,
- met the standard for *Partnerships* through an independent evaluation of their health and safety program.



Alberta Association For Safety Partnerships
Certifying Partner

Certificate # 20170430-1784
WCB Industry Code(s): 30100



Ian Hooper
Government of Alberta

Expiry Date: April 30, 2020



CANADIAN WELDING BUREAU

The CWB acknowledges that

Cape Manufacturing Ltd.

PO Box 216, 16-01-40-16 West of the 4th, Halkirk, AB T0C 1M0 Canada

is Certified to CSA Standard W47.1

Certification of Companies for Fusion Welding of Steel

In the DIVISION 2

INITIAL CERTIFICATION DATE: March 14, 2014

Scope: Structural steel skids and piping supports for oil & gas production equipment

Registrar & Manager Q.A.

Authorized Signing Officer

Certification is validated yearly via a "Letter of Validation", a copy of which is available from the company



Accredited
CB-PS
(Certification Body-Product/Services)

The Canadian Welding Bureau is accredited by the Standards Council of Canada

The product certification system operated by the Canadian Welding Bureau most closely resembles that described by ISO/IEC Guide 67, Conformity assessment — Fundamentals of product certification, System 6.

**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

*Certificate of Authorization
to Register*



This is to certify that

**Cape Manufacturing Ltd.
LSD 16-01-40-16-W4M
Halkirk, AB T0C 1M0
Canada**

*is authorized to apply the "NB" mark and register
boilers, pressure vessels or other pressure retaining
items with the National Board.*

*The scope of Authorization is limited to items
manufactured in accordance with:*

ASME Designator(s): U

ISSUE DATE: June 4, 2015

*This Certificate of Authorization to Register will remain
in effect as long as the manufacturing organization holds
a valid Certificate of Authorization issued by the
American Society of Mechanical Engineers.*

Executive Director

A handwritten signature in black ink, appearing to be 'D. A. ...', written over a horizontal line.





CAPE

MANUFACTURING LTD.

BURNER REPORT

UNIT DESCRIPTION: 3.0 MM BTU Lineheater

DATE: Nov. ²¹ 2017

UNIT: CML-170693

TECHNICIAN *Chase Stenik*

CUSTOMER: Birchill

INSPECTOR:

FIRE TUBE DIAMETER: 24"

LENGTH: 236"

BURNER BTU RATING: 3.0MM BTU

BURNER SIZE: 47.5"

DESCRIPTION	COMMENTS OR DEFICIENCIES	INITIALS
LOW PRESSURE SET POINT (50% OF MAIN BURNER PRESSURE)	10 PSI 5.75 PSI ↓	CS
LOW PRESSURE SHUTDOWN CHECKED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
HIGH PRESSURE SET POINT (25% ABOVE MAIN BURNER PRESSURE)	10 PSI 14.00 PSI ↑	CS
HIGH PRESSURE SHUTDOWN CHECKED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
HIGH TEMP. SET POINT	90°C	CS
HIGH TEMP. SHUTDOWN CHECKED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
LOW LEVEL INSTALLED CORRECTLY (POINTING DOWN)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
LOW LEVEL SHUTDOWN CHECKED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
MAIN REGULATORS SET POINT	10 PSI 11.75 PSI	CS
ORIFICE SIZE	1/2"	CS
PILOT REGULATOR SET POINT	15 PSI	CS
INSTRUMENT VENTS		CS
VENTED OUTSIDE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
SCREENED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
627 -3/4", SEPARATE (5' FROM BURNER)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
MAIN BURNER SECONDARY AIR PLATE:	<input type="checkbox"/> FULLY CLOSED <input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> FULLY OPEN	
MAIN BURNER SPEED CONTROL (15 SEC. OPENING TIME)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
GAUGES INSTALLED CORRECTLY	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS
SOLENOIDS INSTALLED CORRECTLY (ELECTRICAL FACING UP)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CS

DESCRIPTION	COMMENTS OR DEFICIENCIES	INITIALS
IGNITION TRANSFORMER INSTALLED CORRECTLY (TOP HALF OF FLAME ARRESTOR)	<input type="checkbox"/> YES <input type="checkbox"/> NO <i>N/A</i>	<i>CF</i>
TEST PORTS PLUGGED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<i>CF</i>
PRESSURE SWITCHES TAGGED: AND SEALED OPEN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<i>CF</i>
MAIN BURNER ORIFICE SIZE	3/4" <i>.25"</i>	<i>CF</i>
MAIN BURNER FIXED ORIFICE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<i>CF</i>
ALL VALVES CSA DOWNSTREAM OF SCRUBBER APPROVED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<i>CF</i>
100% FLAME STRENGTH CHECKED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<i>CF</i>
FLAME FAILURE CHECKED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<i>CF</i>

OTHER COMMENTS:

WITNESSES	PRINT NAME	SIGNATURE	DATE
CAPE EMPLOYEE	<i>DARYL Hussey</i>	<i>[Signature]</i>	<i>Nov 21/17</i>
CUSTOMER	Birchill		
THIRD PARTY INSPECTOR			

170693



INSPECTION AND TEST REPORT



* 0 2 6 7 7 6 - 4 1 *

Owner:	CAPE MFG LTD			AFE:		Date:	10/16/2017	Job:	91139
Instructions:	<input type="checkbox"/> Rental	<input type="checkbox"/> Quote	<input checked="" type="checkbox"/> Pretest	<input checked="" type="checkbox"/> Repair	<input type="checkbox"/> Test Only	<input type="checkbox"/> New	<input type="checkbox"/> Reset	<input type="checkbox"/> B.E.R	<input type="checkbox"/> VR Update
L.S.D.:		Loc:		Plant/Area:	HALKIRK		Unit/Vessel:		
Valve Data:	-	Seal:	Intact	Style:	Threaded	Inlet:	MNPT	Outlet:	FNPT
		Seal ID:	T	Bonnet:	Closed	Inlet Size:	1.00 inches	Outlet Size:	1.50 inches
Make:	Taylor	NamePlate:	Original	Cap:	Closed	Inlet Rating:	Threaded	Outlet Rating:	Threaded
CRN:	0G01316.2C	Service:	Gas	Orifice:	F	Capacity:	982 SCFM	Cold Diff Set	150 psig
Asset No:	112428	Product:	Gas	Orifice Area:	0.357 sq in.	Code Stmp:	NB/UV	Set Press:	150 psig
Data Plate:	82F4661341	Serial No:	026776-41	Replacing:					
Pilot Data:		Model:		Serial No:					
Pretest Data:	Test1:	Test2:	Test3:	Units:	Notes1:	Customer Request	Pretest By:	Nathan Scott	
Pressures:	146	143	143	psig	Notes2:				
Media:	Air	Method:	Bench						
Disassembly:	-	Height:		Upper BDR:		Lower DBR:		Dis By:	Ruben Cantu
Inspection:	-	Replaced:	N	Converted:	N	Inspected By:	Darrin Clow		
Seat Matl:	Viton(FKM)	Bonnet Matl:	Carbon Steel	Sizing Basis:	Blocked Flow	Inlet Condition:	Clean		
Body Matl:	Carbon Steel	Bellows Matl:	N/A	Spring No:	05-001405	Outlet Cond:	Clean		
Part No \ Desc:	Bin Loc:	Condition 1	Condition 2	Recommendation	Work Done	CD Actual			
K82F11 : SEAL KIT MINOR "F" ORIFIC	1VWD	Req's Replacing			Replaced				
107032 : POLY THERMAL TAG (PTT)	CUPBOARD	Serviced By		Required	Attached				
Assembly:	-	Converted From:		Converted To:		Assembled By:	Nathan Scott		
Final Test:	-	Set Press:	150 psig	Gauge 1:	DG5-1	Vacuum Set:		-	-
-	-	Back Press:	0 psig	Gauge 2:	2A	Leakage Vac:		-	-
Media:	Air	Temp:	60 °F	BLD %:		Vacuum Act:		Test Date:	10/18/2017
Method:	Bench	Corr Factor:	0	Meas Lift:		-	-	Tested By:	Carsten Schm
Simmer:		Cold Diff Set:	150 psig	Leakage:	0 BPM	Set Press Def:	POP	-	-
Re-Seal:		Act Test Press:	151 psig	-	-	-	-	-	-
Final Insp:	Tag:	Painted:	Pallet:	Sealed:	End Protect:	Flex Gasket:	Inspector:	Tim Hansen	
-	Yes	Yes	No	Yes	Yes	No	Sign Off:	Shaun Hitchcock	
Pre-Test Comments:									
Reset Comments:									
Inspection Comments:									
Final Test Comments:									
Sign Off Comments:									

Entered: Monday Oct 16, 2017

Modified: Wednesday Oct 18, 2017

www.kingsenergy.com 1-866-660-KING

Printed: Monday, October 23, 2017



CAPE
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www.capemfg.ca



SHIP LOOSE LIST

DATE: January 23, 2018 JOB #: CML- 170693 CUSTOMER: BIRCHILL CANADA LTD.

Quantity	Description & S/N if Required	Any Item Removed or on Backorder	Item Still in Package
1	STACK		
1	PLATFORM		

QC Inspector: _____

Project Manager: _____

"Passionate People Producing Premium Products"