

ENERFLEX

QUALITY CONTROL

ENERFLEX

VESSEL

CERTIFIED BY:

ENERFLEX

CALGARY, ALBERTA, CANADA

MAWP 1000 PSI @ 150 °F

MAWP — PSI @ — °F

MDMT -20 °F @ 1000 PSI

SN E002562014213 YEAR 2017

CRN T1688213 C.A. 0.125 IN

SH.THK 0.688 IN MAT'L SA -106-B

HD.THK 0.5625 IN MAT'L SA -510-70N

④ 671300

DOUBLE CHAMBER

① 671300

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Enerflex Ltd., 4700 47st SE, Calgary, Alberta, Canada, T2B 3R1
(Name and address of Manufacturer)

2. Manufactured for Enerflex Ltd. Rentals, 4207 82ave SE, Calgary Alberta, T2C 2R8
(Name and address of Purchaser)

3. Location of installation Enerflex Ltd. Rentals, 4207 82ave SE, Calgary Alberta, T2C 2R8
(Name and address)

4. Type Horizontal Stage 2 & 3 Scrubber E002562014213
(Horizontal, vertical, or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Manufacturer's serial number)

T1688.213 122679 Rev.0 ----- 2017
(CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Div. 1 2015 ----- -----
[Edition and Addenda, if applicable (date)] (Code Case number) [Special service per UG-120(d)]

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi chamber vessels.

6. Shell: (a) Number of course(s) 1 (b) Overall length 47.875" S/S

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	12.75" OD	47.875"	SA106B	0.688"	0.125"	SMLS	none	100	Type 1	Full	100	1150F	1.0hr

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

7. Heads: (a) SA-516-70N 1150F for 1.0hr (b) SA-516-70N 1150F for 1.0hr
(Material spec. number, grade or type) (H.T. — time and temp.) (Material spec. number, grade or type) (H.T. — time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemis. Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	Top	0.5625"	0.125"	--	--	--	--	2:1	--	--	Yes	--	--	--
(b)	Middle	1.7431"	0.125"	--	--	--	--	--	11.374"	--	--	--	--	--

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	---	---	---	---	---	---	---	---	---	---	---	---
(b)	---	---	---	---	---	---	---	---	---	---	---	---

8. Type of jacket ----- Jacket closure -----
(Describe as ogee and weld, bar, etc.)

If bar, give dimensions ----- If bolted, describe or sketch.

9. MAWP 1000 PSI --- at max. temp. 150°F --- Min. design metal temp. -20°F at 1000 PSI
(Internal) (External) (Internal) (External)

10. Impact test No, Impact Test Exemption Fer UG-20(f) & UCS-66(a)(1)(c). at test temperature of N/A
[Indicate yes or no and the component(s) impact tested]

11. Hydro., pneu., or comb. test pressure Hydro Test 1300 PSI Proof test ---

Items 12 and 13 to be completed for tube sections.

12. Tubesheet ----- ----- ----- ----- -----
[Stationary (material spec. no.)] [Diameter (subject to press.)] (Nominal thickness) (Corr. allow.) [Attachment (welded or bolted)]

----- ----- ----- ----- -----
[Floating (material spec. no.)] (Diameter) (Nominal thickness) (Corr. allow.) (Attachment)

13. Tubes ----- ----- ----- ----- -----
(Material spec. no., grade or type) (O.D.) (Nominal thickness) (Number) [Type (straight or U)]

FORM U-1 (Cont'd)

Items 14–18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell: (a) No. of course(s) 1 & 2 (b) Overall length 31.875" S/S & 113.125"*

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	12.75" OD	31.875"	SA106B	0.688"	0.125"	SMLS	none	100	Type 1	Full	100	1150F	1.0hr
2*	5.563" OD	11.3125"	SA106-B	0.625"	0.125"	SMLS	--	--	Type 1	Full	100	1150F	1.0hr
-						--	--	--	--	--	--	--	--

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
----	----	----	----	----	----	----	----	----	----	----	----	----
----	----	----	----	----	----	----	----	----	----	----	----	----

15. Heads: (a) SA516-70N (Material spec. number, grade, or type) (H.T. — time and temp.) (b) SA516-70N (Material spec. number, grade, or type) (H.T. — time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemis. Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	Middle	1.7431"	0.125"	--	--	--	--	--	11.374"			--	--	--
(b)	Bottom	0.5625"	0.125"	--	--	--	--	2:1	--	--	Yes	--	--	--

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	----	----	----	----	----	----	----	----	----	----	----	----
(b)	----	----	----	----	----	----	----	----	----	----	----	----

16. MAWP 1000 PSI (Internal) - (External) at max. temp. 150°F (Internal) - (External) Min. design metal temp. -20°F at 1000 PSI

17. Impact test No Impact Test Exemption Fer UG-20(f) & UCS-66(a)(1)(c) at test temperature of N/A
[Indicate yes or no and the component(s) impact tested]

18. Hydro., pneu., or comb. test pressure Hydro test at 1300 PSI Proof test ----

19. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No	Diameter or Size	Type	Material		Nozzle Thickness		Reinforce. Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
See Attached U4	-	--	--	--	--	--	--	--	--	--	--
--	-	--	--	--	--	--	--	--	--	--	--
--	-	--	--	--	--	--	--	--	--	--	--

20. Supports: Skirt No (Yes or no) Lugs 0 (Number) Legs N/A (Number) Others (2) Saddles (Describe) Attached Shell - Welded (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number):

22. Remarks:

Construction Drawing; E002562-01-4213 SHT 1/2 Rev.1/1 Volume; 5.21 F3 Service; Natural Gas

*Two boot shells get a SA234-WPB Weld Cap. Min thickness=0.5625" with corrosion allowance=0.125" each.

E002562014213
FORM U-1 (Cont'd)

(A) 671300

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

U Certificate of Authorization Number 48,560 Expires September 2, 2020.

Date Nov. 4 2017 Name Enerflex Ltd Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by Alberta Boilers Safety Association (ABSA) of Alberta, Canada

have inspected the pressure vessel described in this Manufacturer's Data Report on NOV 06 2017, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date NOV 06 2017 Signed [Signature] Commissions NB12860 D00003710
(Authorized Inspector) [National Board (incl. endorsements)]

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements in this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization Number _____ Expires _____.

Date _____ Name _____ Signed _____
(Assembler) (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by Alberta Boilers Safety Association (ABSA)

of _____, have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ Commissions _____
(Authorized Inspector) [National Board (incl. endorsements)]

(A) 671300

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Enerflex Ltd., 4700 47 Street S.E. Calgary, Alberta, T2B 3R1 Canada
(Name and address of Manufacturer)

2. Manufactured for Enerflex Ltd. Rentals, 4207 82ave SE, Calgary Alberta, T2C 2R8
(Name and address of Purchaser)

3. Location of Installation Enerflex Ltd. Rentals, 4207 82ave SE, Calgary Alberta, T2C 2R8
(Name and address)

4. Type: Horizontal Stage 2 & 3 Scrubber E002562014213
(Horizontal, vertical, or sphere) (Tank, separator, heat exch., etc.) (Manufacturers serial Number)

T1688.213 122679 Rev.0 --- 2017
(CRN) (Drawing Number) (National Board. Number) (Year built)

Remarks

Data Report Item Number	Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforc. Material	Attachment Details		Location (Insp. Open.)
					Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
N1	Process Outlet	1	4 NPS	RFWN, CL.600	SA106-B	SA105N	0.674"	0.125"	--	UW-16.1(c)	Type 1	Shell 1
N2	Process Outlet	1	3 NPS	RFWN, CL.600	SA106-B	SA105N	0.438"	0.125"	--	UW-16.1(c)	Type 1	Shell 2
N3	Process Inlet	1	4 NPS	RFWN, CL.600	SA106-B	SA105N	0.531"	0.125"	--	UW-16.1(c)	Type 1	Shell 1
N4	Process Inlet	1	3 NPS	RFWN, CL.600	SA106-B/SA234-WPB	SA105N	0.600"	0.125"	--	UW-16.1(c)	Type 1	Head 2
C5a/b	Level Contr.	2	2 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(a)	--	Boot1/2
C6a/b	Dump/Insp.	2	1 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(a)	--	Boot1/2
C7	Level Switch	1	2 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(c)	--	Head 1
C8a/b	Boot Drain	2	1 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(a)	--	Boot Head 1/2
C9a/b	Level Guage	2	3/4 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(a)	--	Shell 1/2
C10a/b	Temp. Element	2	3/4 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(a)	--	Shell 1/2
C11a/b	Drain	2	3/4 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(a)	--	Shell 1/2
C12	External Cage	1	3/4 NPS	T.O.L.	SA105N	--	Cl.6000	0.125"	--	UW-16.1(a)	--	Shell 2

Certificate of Authorization: Type "U" No. 48,560 Expires September 2, 2020

Date NOV 04 2017 Name Enerflex Ltd. Signed [Signature]
(Manufacturer) (Representative)

Date NOV 06 2017 Name N. Ilanjan Nay Commissions NB12860 D00003710
(Authorized Inspector) (National Board (incl. endorsements), State, Province and Number)

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

PROTECTED BY OFF SKID

(A) 545026

1. Manufactured and certified by ENERFLEX SYSTEMS LTD., EFX COMPRESSION, 4700 47 STREET SE CALGARY, AB T2B 3R1
(Name and address of Manufacturer)

2. Manufactured for ENERFLEX SYSTEMS LTD., EFX COMPRESSION, 4700 47 STREET SE CALGARY, AB T2B 3R1
(Name and address of Purchaser)

3. Location of installation EFX COMPRESSION STOCK
(Name and address)

4. Type HORIZONTAL SEPARATOR (SOUR) 050954-01 R3442.213 112809 REV 0 -- 2005
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing no.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004
Year

6. Addenda (Date) -- Code Case Nos. -- Special Service per UG 120(d) --

7. Shell: SA-106B 0.500" 0.125" 1' 11" 6' 0"
(Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (overall) (ft. & in.))

8. Heads: (a) Matl. SA-516-70N (b) Matl. SA-516-70N
(Spec No., Grade) (Spec No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	END	0.4375"	0.125"	--	--	2:1	--	--	--	CONCAVE
(b)	END	0.4375"	0.125"	--	--	2:1	--	--	--	CONCAVE

If removable, bolts used (describe other fastenings) --
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 285 N/A psi at max. temp. 120 N/A °F
(internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 285 psi. Hydro., pneu., or comb. T test pressure HYDRO AT 371 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
OUTLET	1	6"	RFWN CL 300	SA105N/SA106B/SA234WPB	0.719"	--	FIG UW-16.1 (C)	SHELL
INLET	1	6"	RFWN CL 300	SA105N/SA106B/SA234WPB	0.719"	--	FIG UW-16.1 (C)	SHELL
DRAIN	1	3"	RFLWN CL 600	SA105N	0.810"	--	FIG UW-16.1 (C)	SHELL
BALANCE LINE	1	1"	TOL	SA105N	CL 6000	--	FIG UW-16.1 (A)	SHELL
HLSD	1	1.5"	BEN'S CPLG	SA105N	CL 6000	--	FIG UW-16.1 (C)	HEAD
INSPECTION	1	2"	TOL	SA105N	CL 3000	--	FIG UW-16.1 (A)	SHELL
LI/TI/SPG	3	0.75"	TOL	SA105N	CL 6000	--	FIG UW-16.1 (A)	SHELL
INSPECTION	1	2"	TOL	SA105N	CL 3000	--	FIG UW-16.1 (A)	HEAD
DRAIN	1	1"	CPLG	SA105N	CL 6000	--	FIG UW-16.1 (C)	HEAD
DRAIN	1	1"	TOL	SA105N	CL 6000	--	FIG UW-16.1 (A)	SHELL

11. Supports: Skirt NO Lugs N/A Legs N/A Other 2 SADDLES Attached SHELL WELDED
(Yes or No) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report: NONE
(Name of part, item number. Mfr's name and identifying stamp)

SERVICE: SOUR GAS PSV ON PIPE AS PER UG-125
CONST. DRAWING NO.: V050954A REV 1 RADIOGRAPHY: *FULL PER UW-11(A)
TESTING: NO CHARPY IMPACT TEST REQUIRED PER UG-20(F) 1 THROUGH 5 CUBIC CAPACITY: 20.7 CUBIC FEET

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 30961 expires APRIL 15, 2008.
Date NOVEMBER 18, 2005 Co. name Enerflex Systems Ltd., EFX Compression Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Enerflex Systems Ltd, EFX Compression at CALGARY, ALBERTA, CANADA.
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ALBERTA and employed by ABSA have inspected the component described in this Manufacturer's Data Report on 18 NOVEMBER, 2005, and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date NOV 18 2005 Signed [Signature] Commissions #213-A ALBERTA
(Authorized Inspector) (Nat'l Board. (incl. endorsements) State, Prov. and No.)

Certificate of Inspection Permit

ENERFLEX SYSTEMS LTD, EFX COMPRESSION
4700 47 STREET SE

CALGARY, AB
T2B 3R1

COPY

Max. Inspection Interval: 1.00 Yr.

Year Built: 2005

CRN: R3442.2

Serial #: 050954-01

Volume: 0.586 M3

Heating Surface:

Surface Area:

COMPANY CODE:

DESCRIPTION: HORIZONTAL SEPARATOR

LOCATION: STOCK, CALGARY

MANUFACTURER: ENERFLEX SYSTEMS LTD, EFX COMPRESSION

Pressure Relief Valves

PART	MAX. ALLOWABLE PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
VESSEL	1965 KPA	49 C	-29 C	SV1			TO BE INSTALLED

Terms and Conditions:

Contact the ABSA Safety Codes Officer before placing the vessel/boiler in service.

Vessel/Boiler to be installed in accordance with the Safety Codes Act and Regulations.

Verify that vessel/boiler is protected by an acceptable ASME Code pressure relief device, of adequate capacity, set at no more than maximum pressure authorized and installed in accordance with the Safety Codes Act & Regulations.

Permit Issued by: GORMAN, PAUL

Signature: 

NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:

An owner or vendor must notify the Administrator in writing when the pressure equipment identified on this certificate is sold or otherwise disposed of.

The owner or person in charge shall report all accidents involving Pressure Equipment to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

112809



MAWP	285	PN	120
W	MDMT	-20	285
RT-1	SN	050954-01	YEAR 2005
HT	MPN	R3442.213	0.125
		0.500	106-B
		0.4375	516-70N

REG. NO. (A) 5 4 5 0 2 6

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A 545047

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by ENERFLEX SYSTEMS LTD., EFX COMPRESSION, 4700 47 STREET SE CALGARY, AB T2B 3R1
(Name and address of Manufacturer)
Manufactured for ENERFLEX SYSTEMS LTD., EFX COMPRESSION, 4700 47 STREET SE CALGARY, AB T2B 3R1
(Name and address of Purchaser)
3. Location of installation EFX COMPRESSION STOCK
(Name and address)

4. Type BOOT WATER COLLECTOR 050951-01 P7515.213 109488 REV 1 -- 2005
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing no.) (Nat'l Bd. No.) (Year built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004
Year

6. Shell: SA-106B 0.500" 0.125" 0' 9.75" 0' 8"
(Mall. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: SMLS N/A 100 1150 1.00 TYPE 1 FULL*/100 1
(Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (°F) Time (hr) Girth (welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, EFF %, or Full) No. of Courses
8. Heads: (a) Mall. SA-516-70N (b) Mall. SA-516-70N
(Spec No., Grade) (Spec No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	0.375"	0.125"	--	--	2:1	--	--	--	CONCAVE
(b)	BOTTOM	0.375"	0.125"	--	--	2:1	--	--	--	CONCAVE

If removable, bolts used (describe other fastenings) --

9. MAWP 740 N/A 100 N/A °F
(internal) (external) (internal) (external)
Min. design metal temp. -20 °F at 740 psi. Hydro., pneu., or comb. Test pressure HYDRO AT 962 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mall.	Nom. Thk.	Reinforcement Mall.	How Attached	Location
INLET/INSPECTION	1	3"	RFLWN CL 600	SA105N	0.8125"	--	FIG UW-16.1 (C)	HEAD
OUTLET	2	2"	RFWN CL 300	SA105N/SA234WPB	0.436"	--	FIG UW-16.1 (C)	HEAD
LEVEL CONTROLLER	1	1.5"	TOL	SA105N	CL 6000	--	FIG UW-16.1 (A)	SHELL
LEVEL GAUGE/INSP	1	0.75"	TOL	SA105N	CL 6000	--	FIG UW-16.1 (A)	SHELL
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

11. Supports: Skirt NO Lugs 1 Legs N/A Other N/A Attached BOTTOM HEAD WELDED
(Yes or No) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report: NONE
(Name of part, item number, Mfr's name and identifying stamp)

SERVICE: WATER/SOUR GAS PSV ON PIPE AS PER UG-125
CONST. DRAWING NO.: V050951A REV 1 RADIOGRAPHY: *FULL PER UW-11(A)
TESTING: NO CHARPY IMPACT TEST REQUIRED PER UG-20(F) 1 THROUGH 5 CUBIC CAPACITY: 0.66 CUBIC FEET

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 30961 expires APRIL 15, 2008.
Date NOVEMBER 25, 2005 Co. name Enerflex Systems Ltd., EFX Compression Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Enerflex Systems Ltd, EFX Compression at CALGARY, ALBERTA, CANADA
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ALBERTA and employed by ABSA have inspected the component described in this Manufacturer's Data Report on 25 NOVEMBER, 2005, and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date NOV 25 2005 Signed [Signature] Commissions #213-A ALBERTA
(Authorized Inspector) (Nat'l Board. (incl. endorsements) State, Prov. and No.)

Certificate of Inspection Permit

ENERFLEX SYSTEMS LTD, EFX COMPRESSION
4700 47 STREET SE

CALGARY, AB
T2B 3R1

Max. Inspection Interval: 1.00 Yr.

Year Built: 2005

CRN: P7515.2

Serial #: 050951-01

Volume: 0.019 M3

Heating Surface:

Surface Area:

COPY

COMPANY CODE:

DESCRIPTION: BOOT WATER COLLECTOR

LOCATION: STOCK, CALGARY

MANUFACTURER: ENERFLEX SYSTEMS LTD, EFX COMPRESSION

Pressure Relief Valves

PART	MAX. ALLOWABLE PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
VESSEL	5102 KPA	38 C	-29 C	SV1			TO BE INSTALLED

Terms and Conditions:

Contact the ABSA Safety Codes Officer before placing the vessel/boiler in service.

Vessel/Boiler to be installed in accordance with the Safety Codes Act and Regulations.

Verify that vessel/boiler is protected by an acceptable ASME Code pressure relief device, of adequate capacity, set at no more than maximum pressure authorized and installed in accordance with the Safety Codes Act & Regulations.

Permit Issued by: GORMAN, PAUL

Signature: _____

NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:

An owner or vendor must notify the Administrator in writing when the pressure equipment identified on this certificate is sold or otherwise disposed of.

The owner or person in charge shall report all accidents involving Pressure Equipment to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

109488

GEETIN

GEETIN



W

RT-1

HT

MAWP 740

MDMT -20

SN 050951-01

CRN P7515.213

SH THK 0.500

BD THK 0.375

PSI 100

740

2005

0.125

106-B

516-70N

REG NO



5 4 5 0 4 7

ENERFLEX

COOLER

PROTECTED BY EFM 03444

055572-CRN-3-R0
Additional Drawing No. 236
Header Volume (cu.ft.)

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

A 552588

1. Manufactured and certified by Air-X-Changers, A Harsco Company, 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA
(Name and address of manufacturer)

2. Manufactured for ENERFLEX, 4700 - 47TH STREET SE, CALGARY, Alberta, T2B 3R1, CANADA
(Name and address of purchaser)

3. Location of Installation UNKNOWN
(Name and address)

4. Type EXCHANGER HEAT
(Horiz. or Vert. tank) (Mfr's serial No.) T4387.213 (CRN) HDR-3, REV-1 (Drawing No.) 50498 (Nat'l. Bd. No.) 2005 (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004 to N/A
(year) (Addenda (Date))

N/A Code Case Nos. N/A Special Service per UG-120(d)

6. Shell: SA516 70N 1.25" .125" 8.25" ID 1' 4.375"
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: CORNER JOINT N/A N/A 1140 1.25 N/A N/A N/A
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (°F) Time (hr) Girth. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Eff. (%) or Full) No. of Courses

8. Heads: (a) Mat'l: SA516 70N (Spec. No., Grade) (b) Mat'l: SA516 70N (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP, BTM	.75"	.125"	N/A	N/A	N/A	N/A	N/A	4" X 16.375"	N/A
(b)	ENDS	.625"	.125"	N/A	N/A	N/A	N/A	N/A	4" X 6.75"	N/A

If removable, bolts used (describe other fastenings) N/A

9. MAWP 645 N/A psi at max. temp. 350 N/A °F (internal) (external) (internal) (external)
Min. design metal temp. -20 °F at 645 psi Hydro, pneu., or comb. test pressure Hydro. 839 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
IN, OUT	2	4"	300# RFWN	SA105/SA106 GRB	SCH 160	WELD	WELDED	HEADER
DRAIN	1	1.5"	TOL	SA105	6000#	WELD	WELDED	NOZZLE
DRAIN	1	1"	CPLG	SA105	6000#	WELD	WELDED	HEADER

11. Supports: Skirt NO Lugs N/A Legs N/A Other STRUCTURE Attached BOLTED
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:
N/A PSV SET @ 285 PSI SCFM 2885
(Name of part, item number, Mfr's name and identifying stamp)

(A) TUBES: 48, .625" OD, STRAIGHT: YES, LENGTH: 150", GAUGE: 14BWG, MATERIAL SA179 ROLLED TUBE SHEET. (B) INSP. OPENINGS: 96, TYPE: 3/4" x 16UNF-THREADED, MATERIAL: SA105 (C) IMPACT REQUIREMENTS: VESSEL EXEMPT FROM IMPACT TESTING PER UG 20 (f)

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 4241 expires 12/31/2005

Date 11/08/2005 Co. name Air-X-Changers, A Harsco Company Signed [Signature] (Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Air-X-Changers, A Harsco Company at 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province OK, KS, MO and employed by OneBeacon America Insurance Co. of Boston, MA have inspected the component described in this Manufacturer's Data Report on November 8, 2005 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11/08/2005 Signed [Signature] Commissions 7376A, OK652, KS356, MO0132 (Nat'l Board (incl. endorsements), State, Prov. and No.)

Certificate of Inspection Permit

ENCANA CORPORATION
PO BOX 2850, 421 7 AVENUE SW
ATTN: JACK WHITTAKER
CANADIAN PLAINS AREA
CALGARY, AB
T2P 4K9

Max. Inspection Interval: Yr.
Year Built: 2005
CRN: T4387.2
Serial #: 055572.3
Volume: 0.007 M3
Heating Surface:
Surface Area:

COMPANY CODE:
DESCRIPTION: HEAT EXCHANGER
LOCATION: LSD 8-9-72-9 W4M (CLYDE)
MANUFACTURER: AIR-X-CHANGERS

COPY

Pressure Relief Valves

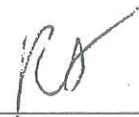
PART	MAX. ALLOWABLE PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
VESSEL	4447 KPA	177 C	-29 C	PSV1	1965 KPA	82 M3/MIN ON PIPING	

Terms and Conditions:

NOT SUBJECT TO ANNUAL FEES AS PER INFORMATION BULLETIN IB03-003 (g)
AIR COOLED OR PLATE TYPE HEAT EXCHANGERS;

Owner to verify integrity of vessel by periodic inspection program.

Permit Issued by: GORMAN, PAUL

Signature: 

NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:

An owner or vendor must notify the Administrator in writing when the pressure equipment identified on this certificate is sold or otherwise disposed of.

The owner or person in charge shall report all accidents involving Pressure Equipment to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

PROTECTED BY EFX 03445

055572-CRN-4-R0
Additional Drawing No..277
Header Volume (cu.ft.)

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

A 552589

1. Manufactured and certified by Air-X-Changers, A Harsco Company, 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA
(Name and address of manufacturer)
2. Manufactured for ENERFLEX, 4700 - 47TH STREET SE, CALGARY, Alberta, T2B 3R1, CANADA
(Name and address of purchaser)

ENTERED
Sept 30/08

3. Location of Installation UNKNOWN
(Name and address)
4. Type HEAT EXCHANGER 055572.4 T4388.213 HDR-4, REV-3 50499 2005
(Horiz. or Vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004 to N/A
(year) (Addenda (Date))
- N/A N/A
Code Case Nos. Special Service per UG-120(d)

6. Shell: SA516 70N 2" .125" 8.75" ID 1' 7.375"
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: CORNER JOINT N/A N/A 1140 1 N/A N/A N/A
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (°F) Time (hr) Girth. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Eff. (%) or Full) No. of Courses

8. Heads: (a) Mat'l: SA516 70N (Spec. No., Grade) (b) Mat'l: SA516 70N (Spec. No., Grade)
- | | Location
(Top, Bottom, Ends) | Minimum
Thickness | Corrosion
Allowance | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex
Angle | Hemispherical
Radius | Flat Diameter | Side to Pressure
(Convex or Concave) |
|-----|---------------------------------|----------------------|------------------------|--------------|----------------|------------------|-----------------------|-------------------------|------------------|---|
| (a) | TOP, BTM | .875" | .125" | N/A | N/A | N/A | N/A | N/A | 3.875" X 19.375" | N/A |
| (b) | ENDS | .875" | .125" | N/A | N/A | N/A | N/A | N/A | 3.875" X 7" | N/A |

- If removable, bolts used (describe other fastenings) N/A
9. MAWP 1292 N/A psi at max. temp. 350 N/A °F (Mat'l., Spec. No., Gr., Size, No.)
(internal) (external) (internal) (external)
- Min. design metal temp. -20 °F at 1292 psi Hydro, pneu., or comb. test pressure Hydro. 1680 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
IN, OUT	2	3"	600# RFWN	SA105/SA106 GRB	SCH 160	WELD	WELDED	HEADER
DRAIN	1	1.5"	TOL	SA105	6000#	WELD	WELDED	NOZZLE
DRAIN	1	1"	CPLG	SA105	6000#	WELD	WELDED	HEADER

11. Supports: Skirt NO Lugs N/A Legs N/A Other STRUCTURE Attached BOLTED
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:

N/A PSV SET @ 800 PSI -SCFM 3166
(Name of part, item number, Mfr's name and identifying stamp)

(A) TUBES: 53, .75" OD, STRAIGHT: YES, LENGTH: 150", GAUGE: 16BWG, MATERIAL SA179 ROLLED TUBE SHEET. (B) INSP. OPENINGS: 106, TYPE: 7/8" x 14UNF-THREADED, MATERIAL: SA105 (C) IMPACT REQUIREMENTS: VESSEL EXEMPT FROM IMPACT TESTING PER UG 20 (f)

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 4241 expires 12/31/2005

Date 11/08/2005 Co. name Air-X-Changers, A Harsco Company Signed Hebra L. DeWitt
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Air-X-Changers, A Harsco Company at 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA, I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province OK, KS, MO and employed by OneBeacon America Insurance Co. of Boston, MA have inspected the component described in this Manufacturer's Data Report on November 8, 2005 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11/08/2005 Signed B. J. Paine Commissions 7376A, OK652, KS356, MO0132
(Nat'l Board (incl. endorsements), State, Prov. and No.)

Certificate of Inspection Permit

ENCANA CORPORATION
PO BOX 2850, 421 7 AVENUE SW
ATTN: JACK WHITTAKER
CANADIAN PLAINS AREA
CALGARY, AB
T2P 4K9

Max. Inspection Interval: Yr.

Year Built: 2005

CRN: T4288.2

Serial #: 055572.4

Volume: 0.008 M3

Heating Surface:

Surface Area:

COPY

COMPANY CODE:

DESCRIPTION: HEAT EXCHANGER

LOCATION: LSD 8-9-72-9 W4M (CLYDE)

MANUFACTURER: AIR-X-CHANGERS

Pressure Relief Valves

PART	MAX. ALLOWABLE PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
VESSEL	8908 KPA	177 C	-29 C	PSV1	5516 KPA	90 M3/MIN	ON PIPING

Terms and Conditions:

NOT SUBJECT TO ANNUAL FEES AS PER INFORMATION BULLETIN IB03-003 (g)
AIR COOLED OR PLATE TYPE HEAT EXCHANGERS;

Owner to verify integrity of vessel by periodic inspection program.

Permit Issued by: GORMAN, PAUL

Signature:



NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:

An owner or vendor must notify the Administrator in writing when the pressure equipment identified on this certificate is sold or otherwise disposed of.

The owner or person in charge shall report all accidents involving Pressure Equipment to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

PROTECTED BY EFK 03446

05508-CRN-5-R0
Additional Drawing No.
.26
Header Volume (cu.ft.)

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

(A) 552590

ENTERED
Sept 30/08
ZM

1. Manufactured and certified by Air-X-Changers, A Harsco Company, 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA
(Name and address of manufacturer)
2. Manufactured for ENERFLEX, 4700 - 47TH STREET SE, CALGARY, Alberta, T2B 3R1, CANADA
(Name and address of purchaser)
3. Location of Installation UNKNOWN
(Name and address)
4. Type HEAT EXCHANGER 055572.5 T1804.213 HDR-5, REV-1 50500 2005
(Horiz. or Vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004 to N/A
(year) (Addenda (Date))
- N/A N/A
Code Case Nos. Special Service per UG-120(d)
6. Shell: SA516 70N 2" .125" 8.375" ID 1' 7.375"
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: CORNER JOINT N/A N/A 1140 1 N/A N/A
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (°F) Time (hr) Girth. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Eff. (%) or Full) No. of Courses
8. Heads: (a) Mat'l: SA516 70N (b) Mat'l: SA516 70N
(Spec. No., Grade) (Spec. No., Grade)
- | | Location
(Top, Bottom, Ends) | Minimum
Thickness | Corrosion
Allowance | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex
Angle | Hemispherical
Radius | Flat Diameter | Side to Pressure
(Convex or Concave) |
|-----|---------------------------------|----------------------|------------------------|--------------|----------------|------------------|-----------------------|-------------------------|---------------|---|
| (a) | TOP, BTM | 1" | .125" | N/A | N/A | N/A | N/A | N/A | 4" X 19.375" | N/A |
| (b) | ENDS | .875" | .125" | N/A | N/A | N/A | N/A | N/A | 4" X 6.375" | N/A |
- If removable, bolts used (describe other fastenings) N/A
9. MAWP 1650 N/A psi at max. temp. 350 N/A °F (Mat'l., Spec. No., Gr., Size, No.)
(internal) (external) (internal) (external)
- Min. design metal temp. -20 °F at 1650 psi Hydro, pneu., or comb. test pressure Hydro. 2145 psi.
10. Nozzles, inspection and safety valve openings:
- | Purpose
(Inlet, Outlet, Drain) | No. | Diam. or Size | Type | Mat'l. | Nom.
Thk. | Reinforcement Mat'l. | How
Attached | Location |
|-----------------------------------|-----|---------------|------------|-----------------|--------------|----------------------|-----------------|----------|
| IN, OUT | 2 | 2" | 1500# RFWN | SA105/SA106 GRB | SCH 160 | WELD | WELDED | HEADER |
| DRAIN | 1 | 1.5" | TOL | SA105 | 6000# | WELD | WELDED | NOZZLE |
| DRAIN | 1 | 1" | CPLG | SA105 | 6000# | WELD | WELDED | HEADER |
11. Supports: Skirt NO Lugs N/A Legs N/A Other STRUCTURE Attached BOLTED
(Yes or no) (No.) (No.) (Describe) (Where and how)
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:
N/A PSV SET @ 1650 PSI SCFM 4316
(Name of part, item number, Mfr's name and identifying stamp)
- (A) TUBES: 58, .625" OD, STRAIGHT: YES, LENGTH: 150", GAUGE: 16BWG, MATERIAL SA179 ROLLED TUBE SHEET. (B) INSP. OPENINGS: 116, TYPE: 3/4" x 16UNF-THREADED, MATERIAL: SA105 (C) IMPACT REQUIREMENTS: VESSEL EXEMPT FROM IMPACT TESTING PER UG 20(f)

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 4241 expires 12/31/2005

Date 11/08/2005 Co. name Air-X-Changers, A Harsco Company Signed Heather L. Delbert
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Air-X-Changers, A Harsco Company at 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA, I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province OK, KS, MO and employed by OneBeacon America Insurance Co. of Boston, MA have inspected the component described in this Manufacturer's Data Report on November 8, 2005 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11/08/2005 Signed B. J. Paine Commissions 7376A, OK652, KS356, MO0132
(Nat'l Board (incl. endorsements), State, Prov. and No.)

050903

Certificate of Inspection Permit

ENCANA CORPORATION
PO BOX 2850, 421 7 AVENUE SW
ATTN: JACK WHITTAKER
CANADIAN PLAINS AREA
CALGARY, AB
T2P 4K9

Max. Inspection Interval: Yr.

Year Built: 2005

CRN: T1804.2

Serial #: 055572.5

Volume: 0.007 M3

Heating Surface:

Surface Area:

COPY

COMPANY CODE:

DESCRIPTION: HEAT EXCHANGER

LOCATION: LSD 8-9-72-9 W4M (CLYDE)

MANUFACTURER: AIR-X-CHANGERS

Pressure Relief Valves

PART	MAX. ALLOWABLE PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
VESSEL	11376 KPA	177 C	-29 C	PSV1	11376 KPA	122 M3/MIN ON PIPING	

Terms and Conditions:

NOT SUBJECT TO ANNUAL FEES AS PER INFORMATION BULLETIN IB03-003 (g)
AIR COOLED OR PLATE TYPE HEAT EXCHANGERS;

Owner to verify integrity of vessel by periodic inspection program.

Permit Issued by: GORMAN, PAUL

Signature: 

NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:

An owner or vendor must notify the Administrator in writing when the pressure equipment identified on this certificate is sold or otherwise disposed of.

The owner or person in charge shall report all accidents involving Pressure Equipment to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

CERTIFIED BY
Air-X-Changers
Harsco
TULSA, OKLAHOMA U.S.A.

W
MAX. DESIGN PRESS. 14 PSI @ 300 °F
MAX. DESIGN PRESS. PSI @ °F
MIN. DESIGN METAL TEMP. -20 °F @ 14 PSI
SER. NO. 055572.1.2 CRN
YEAR 2005 HYDRO. 65 PSI ITEM E3W-TAW

CERTIFIED BY
Air-X-Changers
Harsco
TULSA, OKLAHOMA U.S.A.

W
HT
MAX. DESIGN PRESS. 645 PSI @ 350 °F
MAX. DESIGN PRESS. PSI @ °F
MIN. DESIGN METAL TEMP. -20 °F @ 645 PSI
SER. NO. 055572.3 CRN T4387.213
YEAR 2005 HYDRO. 839 PSI ITEM IC1

CERTIFIED BY
Air-X-Changers
Harsco
TULSA, OKLAHOMA U.S.A.

W
HT
MAX. DESIGN PRESS. 1292 PSI @ 350 °F
MAX. DESIGN PRESS. PSI @ °F
MIN. DESIGN METAL TEMP. -20 °F @ 1292 PSI
SER. NO. 055572.4 CRN T4388.213
YEAR 2005 HYDRO. 1680 PSI ITEM IC2

CERTIFIED BY
Air-X-Changers
Harsco
TULSA, OKLAHOMA U.S.A.

W
HT
MAX. DESIGN PRESS. 1650 PSI @ 350 °F
MAX. DESIGN PRESS. PSI @ °F
MIN. DESIGN METAL TEMP. -20 °F @ 1650 PSI
SER. NO. 055572.5 CRN T1804.213
YEAR 2005 HYDRO. 2145 PSI ITEM AC

ENERFLEX

SPOOLING



PRESSURE PIPING CONSTRUCTION AND TEST DATA REPORT

In accordance with the provisions of the PESR Section 31(1)

Shop Construction ☒; Field Construction ☐;
 Final Data Report ☐; Partial Data Report ☒ (from one ABSA- authorized Contractor to another ABSA- authorized Contractor).

Complete both sides of this Form

1. Constructed By: Enerflex Ltd. Owner's Job No: E002562-01
 (Name of ABSA authorized primary contractor or subcontractor)
4700 47th Street SE Calgary, Alberta T2B 3R1

(Address)

Certificate of Authorization Permit No. AQP-1554 Expiry Date: September 2, 2020

2. Constructed For: Enerflex Ltd Rentals, 4207 82 Ave SE, Calgary AB, T2C 2R9
 (Name of primary contractor if different from above)

STOCK

(Address)

Certificate of Authorization Permit No. AQP-N/A Expiry Date: N/A

(Required when the primary contractor undertakes some/all of the quality functions, e.g., NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

3. Owner: Enerflex Ltd. Rentals, 4207 82 Ave SE, Calgary AB, T2C 2R9
 (Name and address)

STOCK

(Location of installation)

Certificate of Authorization Permit No. AQP- N/A Expiry Date: N/A

(Required when the owner undertakes some/all of the quality functions, e.g., NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

4. Piping Design Alberta Registration No.: PP---
 (Required if aggregate piping volume is over 0.5m³)

5. Design Responsibility: Owner ☐; Contractor ☒

6. WP No.: WP-496.2; Company: Enerflex Ltd. Owner's WP No. (If used): WP-N/A
 (Alberta Registration No.) (Alberta Registration No.)
 Spec No(s). used: 1, 2, 5, 8; Owner's Spec No(s). (If used): N/A

7. Code: ASME B31.1 Non Boiler External Piping ☐; ASME B31.1 Boiler External Piping ☐;
 B31.5 ☐; B31.9 ☐; CSA Z662 Steam Pipelines ☐;
 ASME B31.3 ☒ - Service Category: Normal ☒, D ☐, M ☐, High Pressure ☐; Severe Cyclic Condition ☐
 High Purity ☐

Drawing No. Rev. No. Line No.	Fluid (Air/Stm. Etc.)	Des. Press. psi	Des. Temp. ^{°F} (Max. & Min.)	Pressure Test Psi	Test Medium	Pipe Mat'l Spec. & Grade	C.A. in	Pipe NPS & Schedule	Flange Material & Rating	PWHT/ Preheat Temp. °F	NDE
E002562-01 Sht.1 Rev.0 4" 2S2-C32R	GAS	655	-20/300°F	-	WATER	SA106B	1/8	4" STD	SA105N CL.600 CL.300	1150/60	100% RT 100% VT
E002562-01 Sht.2 Rev.0 3" 2D2-C62R	GAS	1287	-20/350°F	-	WATER	SA106B	1/8	3" XH	SA105N CL.600	1150/60	100% RT 100% VT
E002562-01 Sht.3 Rev.0 3" HP2-C12R	GAS	230	-20/300°F	-	WATER	SA106B	1/8	2" XH	SA105N CL.600	1150/60	100% RT 100% VT

Partial Data Reports certified by sub-contractors are listed below and attached to this Data Report ☐

No.	Line No.	Spool No.	Dwg. No. (with Rev. No.)	Sub-contractor (Name)	AQP No. (if from Alberta)	Expiry (if from Alberta)

Remarks: For partial data report provide information about the code work that was not completed by the subcontractor (e.g., hydrostatic test, PWHT etc.). For final data report provide information about the code work that was not completed by subcontractors and subsequently completed by the primary contractor (e.g., hydrostatic test of entire assembly, PWHT etc.)

All Field Welds to be RT in the field as well as PWHT and hydro.

Endorse certificate 'A' or 'B'

A. CERTIFICATE OF COMPLIANCE

Signed by the subcontractor when supplying this certificate as a
Partial Data Report

We certify that the statements in this Data Report are correct and that materials, construction and workmanship of the piping fabrication conform to the registered quality system and the applicable Piping code(s).

Date: _____
Contractor

Print Authorized Representative's Name

Signature

This certificate is not valid unless it forms part of a Final Data Report signed by Primary Contractor

B. CERTIFICATE OF COMPLIANCE

Signed by the primary contractor when supplying this certificate as a
Final Data Report

We certify that the statements in this Data Report are correct and that piping job no. E002562-01 described in this Data Report was constructed in accordance with the Province of Alberta Safety Codes Act and Regulations, and applicable ASME Piping Code(s).

Date: Nov. 07, 2017 Enerflex Ltd
Contractor

Dennis M. Serrano

Print Authorized Representative's Name


Signature

CERTIFICATE OF INSPECTION

I, the undersigned, employed by _____ have verified that all required examination and testing has been completed, and inspected the piping described in this construction data report to the extent necessary to be satisfied that it conforms to all applicable examination requirements of the Code and of the engineering design, and state that, to the best of my knowledge and belief, the contractor has constructed this piping in accordance with the Alberta Safety Codes Act and Regulations. By signing this certificate neither the inspector nor his or her employer makes any warranty, expressed or implied, concerning the piping described in this construction data report. Furthermore, neither the inspector nor his or her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: November 7, 2017

Date: _____

K. KRIS HART

Owner's Inspector Name (please print)

ABSA Safety Codes Officer (please print)
(BOILER EXTERNAL PIPING ONLY)



Owner's Inspector Signature:

ABSA Safety Codes Officer's Signature



CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

In accordance with the provisions of the Safety Codes Act

Shop Construction ☒; Field Construction ☐; Final Data Report ☐;
 Partial Data Report ☐ (from one ABSA-authorized Contractor to another
 ABSA-authorized Contractor).

Complete both sides of this Form

1. Constructed By: **ENERFLEX SYSTEMS LTD., EFX COMPRESSION** Owner's Job No: **050903 (050957)**

(Name of ABSA authorized primary contractor or subcontractor)

4700 - 47TH ST. S.E. CALGARY, AB T2B 3R1

(Address)

Alberta Quality Program No. **AQP-1044**

Expiry Date: **APRIL 15, 2008**

2. Constructed For: **N/A**

(Name of primary contractor if different from above)

N/A

(Address)

Alberta Quality Program No. AQP- **N/A**

Expiry Date: **N/A**

(Required when the primary contractor undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

3. Owner: **ENERFLEX SYSTEMS LTD., EFX COMPRESSION, 4700 - 47TH ST. S.E. CALGARY, AB T2B 3R1**

(Name and address)

EFX COMPRESSION STOCK

(Location of installation)

Alberta Quality Program No. AQP- **N/A**

Expiry Date: **N/A**

(Required when the owner undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

4. Piping Design Alberta Registration No.: **PP-**

N/A

(Required if aggregate piping volume is over 0.5m³)

5. WP No.: **WP-807.2**; Company: **ENERFLEX SYSTEMS LTD. EFX COMPRESSION**; Owner's WP No. (If used): **WP-N/A**

(Alberta Registration No.)

(Alberta Registration No.)

WPS No(s). used: **ESL-102/104/118**

; Owner's WPS No(s). (If used): **N/A**

6. Code: **ASME B31.1 Non Boiler External Piping ☐**

ASME B31.1 Boiler External Piping ☐

ASME B31.3 ☐ - Service category: Normal ☒, D ☐, M ☐, High Pressure ☐; B31.5 ☐; B31.9 ☐

Drawing No. Rev. No. Line No.	Fluid (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp. °F	Test Press. PSI	Test Medium	Pipe Mat'l Spec. & Grade	C.A.	Pipe NPS & Schedule	Flange Material & Rating	PWHT/ Preheat Temp. °F	R.T. %	Other NDE
124942	GAS	272	150	450	H ₂ O	SA106B	1/8"	6"STD	SA105N	1150	100	VIS
									900#			
									150#			
									300#			
124943	GAS	645	350	1125	H ₂ O	SA106B		4"XS	SA105N	1150	100	VIS
									300#			
124944	GAS	707	150	1125	H ₂ O	SA106B		4"XS	SA105N	1150	100	VIS
									300#			
									600#			
124945	GAS	1292	350	2225	H ₂ O	SA106B		3"XS	SA105N	1150	100	VIS
									600#			
124946	GAS	1415	150	2225	H ₂ O	SA106B		3"XS	SA105N	1150	100	VIS
									600#			



CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

In accordance with the provisions of the Safety Codes Act

Shop Construction ☒; Field Construction ☐; Final Data Report ☐;
 Partial Data Report ☐ (from one ABSA-authorized Contractor to another
 ABSA- authorized Contractor).

Complete both sides of this Form

1. Constructed By: **ENERFLEX SYSTEMS LTD., EFX COMPRESSION** Owner's Job No: **050903 (050957)**
 (Name of ABSA authorized primary contractor or subcontractor)
4700 - 47TH ST. S.E. CALGARY, AB T2B 3R1
 (Address)

Alberta Quality Program No. **AQP-1044**

Expiry Date: **APRIL 15, 2008**

2. Constructed For: **N/A**
 (Name of primary contractor if different from above)
N/A
 (Address)

Alberta Quality Program No. **AQP- N/A** Expiry Date: **N/A**
 (Required when the primary contractor undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

3. Owner: **ENERFLEX SYSTEMS LTD., EFX COMPRESSION, 4700 - 47TH ST. S.E. CALGARY, AB T2B 3R1**
 (Name and address)

EFX COMPRESSION STOCK

(Location of installation)

Alberta Quality Program No. **AQP- N/A** Expiry Date: **N/A**
 (Required when the owner undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

4. Piping Design Alberta Registration No.: **PP- N/A**

(Required if aggregate piping volume is over 0.5m³)

5. WP No.: **WP-807.2**; Company: **ENERFLEX SYSTEMS LTD. EFX COMPRESSION**; Owner's WP No. (If used): **WP-N/A**
 (Alberta Registration No.) (Alberta Registration No.)
 WPS No(s). used: **ESL-102/104/118**; Owner's WPS No(s). (If used): **N/A**

6. Code: **ASME B31.1 Non Boiler External Piping** ☐; **ASME B31.1 Boiler External Piping** ☐;
ASME B31.3 ☐ - Service category: Normal ☒, D ☐, M ☐, High Pressure ☐; **B31.5** ☐; **B31.9** ☐.

Drawing No. Rev. No. Line No.	Fluid (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp. °F	Test Press. PSI	Test Medium	Pipe Mat'l Spec. & Grade	C.A.	Pipe NPS & Schedule	Flange Material & Rating	PWHT/ Preheat Temp. °F	R.T. %	Other NDE
124947	GAS	1935	350	3350	H ₂ O	SA106B	1/8"	3"160	SA105N 1500#	1150	100	VIS
									900#			
124948	GAS	2122	150	3350	H ₂ O	SA106B		2"160	SA105N 1500#	1150	100	VIS
									900#			
124949	GAS	2122	150	3350	H ₂ O	SA106B		2"160	SA105N 900#	1150	100	VIS
124950	GAS	2122	150	3350	H ₂ O	SA106B		2"160	SA105N 900#	1150	100	VIS
126612	GAS	2122	150	3350	H ₂ O	SA106B		2"160	SA105N 900#	1150	100	VIS

In accordance with the provisions of the Safety Codes Act

Shop Construction ☒; Field Construction ☐; Final Data Report ☐;
Partial Data Report ☐ (from one ABSA-authorized Contractor to another
ABSA- authorized Contractor).

1. Constructed By: ENERFLEX SYSTEMS LTD., EFX COMPRESSION Owner's Job No: 050903 (050957)
 (Name of ABSA authorized primary contractor or subcontractor)
4700 - 47TH ST. S.E. CALGARY, AB T2B 3R1
 (Address)

Expiry Date: **APRIL 15, 2008**

2. Constructed For: N/A
(Name of primary contractor if different from above)

N/A
(Address)

Alberta Quality Program No. AQP-	N/A	Expiry Date:	N/A
(Required when the primary contractor undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)			

3. Owner: ENERFLEX SYSTEMS LTD., EFX COMPRESSION, 4700 - 47TH ST. S.E. CALGARY, AB T2B 3R1
(Name and address)
EFX COMPRESSION STOCK
(Location of installation)

Alberta Quality Program No. AQP-	N/A	Expiry Date:	N/A
<small>(Required when the owner undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)</small>			

4. Piping Design Alberta Registration No.: PP-_____ N/A
(Required if aggregate piping volume is over 0.5m³)

5. WP No.: **WP-807.2** ; Company: ENERFLEX SYSTEMS LTD. EFX COMPRESSION ; Owner's WP No. (If used): WP-N/A
(Alberta Registration No.)
WPS No(s). used: **ESL-102/104/118** ; Owner's WPS No(s). (If used): **N/A**
(Alberta Registration No.)

6. Code: ASME B31.1 Non Boiler External Piping ☐; ASME B31.1 Boiler External Piping ☐;
ASME B31.3 ☐ - Service category: Normal ☒, D ☐, M ☐, High Pressure ☐; B31.5 ☐; B31.9 ☐.

[illegible]

Partial Data Reports, properly identified and certified by ABSA-authorized contractors, as listed below are attached to and form part of this Data Report ☐

No.	Line No.	Spool No.	Drg. No. (with Rev. No.)	Contractor (Name)	AQP No.	Expiry date

Remarks: Provide additional comments including noting any code work that was not performed by the ABSA- authorized contractor(s) supplying this document as a Partial Data Report but which must be completed by another ABSA-authorized contractor who assumes overall responsibility for conformance with the Safety Codes Act & Regulations and applicable ASME Codes, and who assures that all required code work is completed prior to putting the piping system into service.

Endorse certificate 'A' or 'B'

A. CERTIFICATE OF COMPLIANCE

Signed by the subcontractor when supplying this certificate as a
Partial Data Report

We certify that the statements in this Data Report are correct and that materials, construction and workmanship of the piping fabrication conform to the registered quality system and the applicable Piping code(s).

Date: N/A N/A
Subcontractor

N/A N/A
Print Authorized Representative's Name Signature

This certificate is not valid unless it forms part of a
Final Data Report signed by Primary Contractor

B. CERTIFICATE OF COMPLIANCE

Signed by the primary contractor when supplying this certificate as a
Final Data Report

We certify that the statements in this Data Report are correct and that piping job no. 050903 (050957) described in this Data Report was constructed in accordance with the Province of Alberta Safety Codes Act and Regulations, and applicable ASME Piping Code(s).

Date: FEB. 2/06 ENERFLEX SYSTEMS LTD., EFX COMPRESSION
Primary Contractor

DAVE MAGERLEY [Signature]
Print Authorized Representative's Name Signature

CERTIFICATE OF INSPECTION

I, the undersigned, employed by _____ have inspected the piping job no. _____ described in this Construction Data Report and state that, to the best of my knowledge and belief, the Contractor has constructed this piping in accordance with the applicable Sections of the ASME Piping Codes and Province of Alberta Safety Codes Act and Regulations.

Date: _____ Date: _____
Name: _____ Sign.: _____
Print Owner's Inspector's Name Owner's Inspector's Signature

ABSA Safety Codes Officer
(BOILER EXTERNAL PIPING ONLY)



CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

In accordance with the provisions of the Safety Codes Act

Shop Construction ☒; Field Construction ☐; Final Data Report ☐;
Partial Data Report ☐ (from one ABSA-authorized Contractor to another ABSA-authorized Contractor).

Complete both sides of this Form

1. Constructed By: Enerflex Systems Ltd, EFX Compression Owner's Job No: 050903 (060499)
(Name of ABSA authorized primary contractor or subcontractor)
4700 - 47th St. SE, Calgary AB, T2B 3R1
(Address)

Alberta Quality Program No. AQP-1044

Expiry Date: APRIL 15, 2008

2. Constructed For: N/A
(Name of primary contractor if different from above)
N/A
(Address)

Alberta Quality Program No. AQP- N/A Expiry Date: N/A

(Required when the primary contractor undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

3. Owner: ENERFLEX LEASING LTD., 4700 47 STREET S.E. CALGARY, AB T2B 3R1
(Name and address)

CLYDE, AB LSD #08-09-72-09 W4M

(Location of installation)

Alberta Quality Program No. AQP- N/A Expiry Date: N/A

(Required when the owner undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

4. Piping Design Alberta Registration No.: PP- N/A

(Required if aggregate piping volume is over 0.5m³)

5. WP No.: WP-807.2 ; Company: Enerflex Systems Ltd. ; Owner's WP No. (If used): WP- N/A
(Alberta Registration No.) (Alberta Registration No.)

WPS No(s). used: ESL-102/104/118 ; Owner's WPS No(s). (If used): N/A

6. Code: ASME B31.1 Non Boiler External Piping ☐; ASME B31.1 Boiler External Piping ☐;

ASME B31.3 ☒ - Service category: Normal ☐, D ☐, M ☐, High Pressure ☐; B31.5 ☐; B31.9 ☐.

Drawing No. Rev. No. Line No.	Fluid (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp. °F	Test Press. PSI	Test Medium	Pipe Mat'l Spec. & Grade	C.A. mm	Pipe NPS & Schedule	Flange Material & Rating	PWHT/ Preheat Temp. °F	R.T. %	Other NDE
1D1	GAS	645	350	1125	H ₂ O	SA106B	1/8"	1-1/2"160 4"XS	SA105N 300#	1150	100	VIS
2D1	GAS	645	350	1125	H ₂ O	SA106B		1"XXS 3"XS	SA105N 400#	1150	100	VIS
								600#				
3D1	GAS	1935	350	3350	H ₂ O	SA106B		1-1/2"XXS 3"160	SA105N 900#	1150	100	VIS
								1500#				
1S3	GAS	707	150	1125	H ₂ O	SA106B		6"XS	SA105N 300#	1150	100	VIS
2S2	GAS	707	150	1125	H ₂ O	SA106B		4"XS	SA105N 400#	1150	100	VIS
								600#				



CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

In accordance with the provisions of the Safety Codes Act

Shop Construction ☒; Field Construction ☐; Final Data Report ☐;
Partial Data Report ☐ (from one ABSA-authorized Contractor to another ABSA-authorized Contractor).

Complete both sides of this Form

1. Constructed By: Enerflex Systems Ltd, EFX Compression Owner's Job No: 050903 (060499)
(Name of ABSA authorized primary contractor or subcontractor)
4700 - 47th St. SE, Calgary AB, T2B 3R1
(Address)

Alberta Quality Program No. AQP-1044 Expiry Date: APRIL 15, 2008

2. Constructed For: N/A
(Name of primary contractor if different from above)
N/A
(Address)

Alberta Quality Program No. AQP-N/A Expiry Date: N/A
(Required when the primary contractor undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

3. Owner: ENERFLEX LEASING LTD., 4700 47 STREET S.E. CALGARY, AB T2B 3R1
(Name and address)
CLYDE, AB LSD #08-09-72-09 W4M
(Location of installation)

Alberta Quality Program No. AQP-N/A Expiry Date: N/A
(Required when the owner undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)

4. Piping Design Alberta Registration No.: PP-N/A
(Required if aggregate piping volume is over 0.5m³)

5. WP No.: WP-807.2; Company: Enerflex Systems Ltd.; Owner's WP No. (If used): WP- N/A
(Alberta Registration No.) (Alberta Registration No.)
WPS No(s). used: ESL-102/104/118; Owner's WPS No(s). (If used): N/A

6. Code: ASME B31.1 Non Boiler External Piping ☐; ASME B31.1 Boiler External Piping ☐;
ASME B31.3 ☒ - Service category: Normal ☐, D ☐, M ☐, High Pressure ☐; B31.5 ☐; B31.9 ☐.

Drawing No. Rev. No. Line No.	Fluid (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp. °F	Test Press. PSI	Test Medium	Pipe Mat'l Spec. & Grade	C.A. mm	Pipe NPS & Schedule	Flange Material & Rating	PWHT/ Preheat Temp. °F	R.T. %	Other NDE
3S2	GAS	1415	150	2225	H ₂ O	SA106B	1/8"	3"XS	SA105N	1150	100	VIS
									1500#			
									600#			
BP2	GAS	272	150	450	H ₂ O	SA106B		1"160	SA105N	1150	100	VIS
									1500#			
									900#			
									150#			
HP3	GAS	230	300	450	H ₂ O	SA106B		2-1/2"STD	SA105N	1150	100	VIS
									150#			
HP4	GAS	230	300	450	H ₂ O	SA106B		2"XS	SA105N	1150	100	VIS
								3"STD	150#			
									300#			

In accordance with the provisions of the Safety Codes Act

Complete both sides of this Form

1. Constructed By: Enerflex Systems Ltd, EFX Compression Owner's Job No: 050903 (060499)
(Name of ABSA authorized primary contractor or subcontractor)
4700 – 47th St. SE, Calgary AB, T2B 3R1
(Address)
- Alberta Quality Program No. AQP-1044 Expiry Date: APRIL 15, 2008
2. Constructed For: N/A
(Name of primary contractor if different from above)
N/A
(Address)
- Alberta Quality Program No. AQP- N/A Expiry Date: N/A
(Required when the primary contractor undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)
3. Owner: ENERFLEX LEASING LTD., 4700 47 STREET S.E. CALGARY, AB T2B 3R1
(Name and address)
CLYDE, AB LSD #08-09-72-09 W4M
(Location of installation)
- Alberta Quality Program No. AQP- N/A Expiry Date: N/A
(Required when the owner undertakes some/all of the quality functions, e.g., Mat'l supply, NDE, PWHT, Tie-in, fabrication, hydro test, final assembly etc.)
4. Piping Design Alberta Registration No.: PP- N/A
(Required if aggregate piping volume is over 0.5m³)
5. WP No.: WP-807.2; Company: Enerflex Systems Ltd.; Owner's WP No. (If used): WP- N/A
(Alberta Registration No.) (Alberta Registration No.)
WPS No(s). used: ESL-102/104/118; Owner's WPS No(s). (If used): N/A
6. Code: ASME B31.1 Non Boiler External Piping ☐; ASME B31.1 Boiler External Piping ☐;
ASME B31.3 ☒ - Service category: Normal ☐, D ☐, M ☐, High Pressure ☐; B31.5 ☐; B31.9 ☐

[illegible]

Partial Data Reports, properly identified and certified by ABSA-authorized contractors, as listed below are attached to and form part of this Data Report ☐

No.	Line No.	Spool No.	Drg. No. (with Rev. No.)	Contractor (Name)	AQP No.	Expiry date

Remarks: Provide additional comments including noting any code work that was not performed by the ABSA- authorized contractor(s) supplying this document as a Partial Data Report but which must be completed by another ABSA-authorized contractor who assumes overall responsibility for conformance with the Safety Codes Act & Regulations and applicable ASME Codes, and who assures that all required code work is completed prior to putting the piping system into service.

Endorse certificate 'A' or 'B'

A. CERTIFICATE OF COMPLIANCE

Signed by the subcontractor when supplying this certificate as a Partial Data Report

We certify that the statements in this Data Report are correct and that materials, construction and workmanship of the piping fabrication conform to the registered quality system and the applicable Piping code(s).

Date: N/A N/A
Subcontractor

N/A N/A
Print Authorized Representative's Name Signature

This certificate is not valid unless it forms part of a Final Data Report signed by Primary Contractor

B. CERTIFICATE OF COMPLIANCE

Signed by the primary contractor when supplying this certificate as a Final Data Report

We certify that the statements in this Data Report are correct and that piping job no. 050903 (060499) described in this Data Report was constructed in accordance with the Province of Alberta Safety Codes Act and Regulations, and applicable ASME Piping Code(s).

Date: MAY 26/06 Enerflex Systems Ltd.
Primary Contractor

G. MOODY [Signature]
Print Authorized Representative's Name Signature

CERTIFICATE OF INSPECTION

I, the undersigned, employed by _____ have inspected the piping job no. _____ described in this Construction Data Report and state that, to the best of my knowledge and belief, the Contractor has constructed this piping in accordance with the applicable Sections of the ASME Piping Codes and Province of Alberta Safety Codes Act and Regulations.

Date: _____ Date: _____

_____ Name: _____ Sign.: _____
Print Owner's Inspector's Name Owner's Inspector's Signature

ABSA Safety Codes Officer
(BOILER EXTERNAL PIPING ONLY)

ENERFLEX

**Pneumatic Test Report
CSA B149.1 Compliance**

ENERFLEX	CUSTOMER PNEUMATIC TESTING REPORT	
	Revision: 4	Record Form Number: CAC-PRD-FRM-004
		Revised: 13-Sep-16

INFORMATION

Project #: 5090300	Customer: Roska	Design Pressure Indicated on Drawing: 80
Associated Drawing / Spool #:	50903-SF-22 50903-SF-22	Test Pressure: 120
Description of Product:	B149.1 CSA Compliance With heater line Tubing	Date: 28 Jun 17

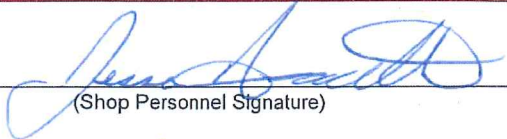
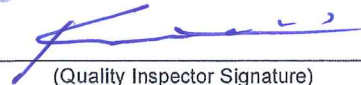
TEST DATA

Gauge Numbers Used:	700001026 & 700001027
Starting Test Pressure:	120
Duration of Testing:	3 Hours
Finish Test Pressure:	80
Soap Bubble Test Performed?	YES

RESULTS / COMMENTS:

Pass
PSV 700003627 set @ 200 PSI was also used for air test

SIGNATURES:

 (Shop Personnel Signature)	Jesse Horvath Print Name:	30-Jun-17 Date:
 (Quality Inspector Signature)	Kris Hort Print Name:	June 30, 17 Date:
 (Third Party Inspector Signature if necessary)	 Print Name:	 Date:

Copies: (1) GPS Project Binder (1) QC Project Binder (1) 3rd Party Inspector if required

All Pneumatic Testing is to be completed in accordance with Work Instruction CAC-PRD-WIS-014 (Pneumatic Testing of Pressure Piping Systems)