

REFRIGERATION PACKAGE

DETAILS & DOCUMENTATION PACKAGE

Edmonton Office

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Refrigeration plant pictures: external









Refrigeration plant pictures: internals

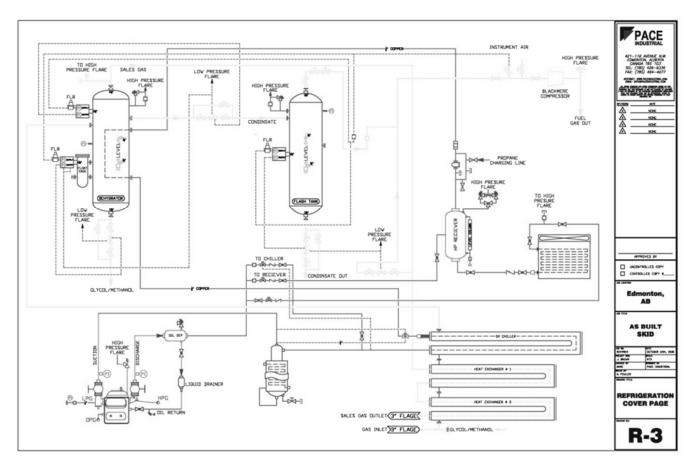








Refrigeration plant: PFD



PROCESS EQUIPMENT:

- ☐ Flash Tank
- Oil Separator
- ☐ Heat Exchangers (# 1 & # 2)
- □ Chiller
- □ HP Receiver
- Compressor
- □ Float Cage
- ☐ Please note the Dehydrator is not a part of the package

Refrigeration plant: Flash Tank

EQUIPMENT	FLASH TANK		MANUFACTURER	ROCKET INDUSTRIES	
CRN#	B 9592.2		YEAR BUILT	1974	
BASIS OF INFORMATION	ATTACHED DATA SHEET		*THIS DOCUMENT IS NOT N ACTUAL DATA SHEET	1EANT TO REPLACE THE	
SERVICE	CONDENSATE NON CORROSIVE		CODE	ASME UW12(A)71	
DESIGN CONDITIONS			DESIGN TEMP	300	F
DESIGN PRESSURE	1080	PSIG	OPERATING PRESSURI	E 920	PSIG
MAX ALLOW. PRESSURE	1080	PSIG	HYDROTEST PRESSUR	E 1620	PSIG
MATERIAL SPECIFICATIONS	S				
SHELL MATERIAL	А53-В		TENSILE STRENGTH	60000	
HEAD MATERIAL	A516-70		TENSILE STRENGTH	70000	
SIZE					
THICKNESS	0.9338	IN	CORR ALLOW.	0.125	IN
SHELL DIAMETER	14 OD	IN	OA LENGTH	7FT-1IN	FT-IN
CAPACITY	6.05	FT3	X-RAY	SPOT	
JOINTS					
SEAM	SEAMLESS		JOINT	BUTT JOINT @ 85% EFFY	(

Refrigeration plant: Oil Separator

EQUIPMENT	LOW TEMP SEPARATOR		MANUFACTURER	ROCKET INDUSTRIES	
CRN #	B 9591.2		YEAR BUILT	1974	
BASIS OF INFORMATION	ATTACHED DATA SHEET		*THIS DOCUMENT IS NOT MI DATA SHEET	EANT TO REPLACE THE ACTUAL	
SERVICE	OIL & GAS NON CORROSIVE		CODE	ASME UW12(A) 71	
DESIGN CONDITIONS			DESIGN TEMP	300	F
DESIGN PRESSURE	1080	PSIG	OPERATING PRESSURE	920	PSIG
MAX ALLOW. PRESSURE	1080	PSIG	HYDROTEST PRESSURE	1620	PSIG
MATERIAL SPECIFICATIONS					
SHELL MATERIAL	A53-B		TENSILE STRENGTH	60000	
HEAD MATERIAL	A516-70		TENSILE STRENGTH	70000	
SIZE					
THICKNESS	0.938	IN	CORR ALLOW.	0.125	IN
SHELL DIAMETER	18 OD	IN	OA LENGTH	N/A	FT-IN
CAPACITY	N/A	FT3	X-RAY	SPOT	
JOINTS					
SEAM	SEAMLESS		JOINT	BUTT JOINT @ 85% EFFY	,
NOZZLES					
DIAMETER	2	IN	WALL THICKNESS	0.343	IN
MATERIAL	A53-B		FLANGE RATING	600	

Refrigeration plant: Heat Exchanger I

EQUIPMENT	S&T HEAT EXCHANGER 1		MANUFACTURER	BROWN FINTUBE ENGINEERING LTD.	
CRN#	В 9334.2		YEAR BUILT	1974	
BASIS OF INFORMATION	ATTACHED DATA SHEET		*THIS DOCUMENT IS NOT MI SHEET	EANT TO REPLACE THE ACTUAL DATA	
SERVICE	SWEET NAT GAS/ SWEET NAT GAS		CODE	ASME SECT VIII UW12C	
DESIGN CONDITIONS					
DESIGN PRESSURE			DESIGN TEMP		
SHELL	1000	PSIG	SHELL	650	F
TUBE	1000	PSIG	TUBE	650	F
TEST PRESSURE	1500	PSIG	OPERATING PRESSURE	N/A	PSIG
MATERIAL SPECIFICATIONS					
MATERIAL	MANN SA53 GR B		TENSILE STRENGTH	60000	
SIZE					
SHELL THICKNESS	0.337	IN	HEATING SURFACE AREA	58	FT2
HEAD THICKNESS	1.75	IN	TUBE THICKNESS	0.095	IN
DIAMETER	4 (IPS)	IN	OA LENGTH	21 FT - 10.125IN	FT-IN

Refrigeration plant: Heat Exchanger II

EQUIPMENT	S&T HEAT EXCHANGER 1		MANUFACTURER	BROWN FINTUBE ENGINEERING LTD.	
CRN#	В 9334.2		YEAR BUILT	1974	
BASIS OF INFORMATION	ATTACHED DATA SHEET		*THIS DOCUMENT IS NOT ME SHEET	EANT TO REPLACE THE ACTUAL DATA	
SERVICE	SWEET NAT GAS/ SWEET NAT GAS		CODE	ASME SECT VIII UW12C	
DESIGN CONDITIONS					
DESIGN PRESSURE			DESIGN TEMP		
SHELL	1000	PSIG	SHELL	650	F
TUBE	1000	PSIG	TUBE	650	F
TEST PRESSURE	1500	PSIG	OPERATING PRESSURE	N/A	PSIG
MATERIAL SPECIFICATIONS					
MATERIAL	USS SA53 GR B		TENSILE STRENGTH	60000	
SIZE					
SHELL THICKNESS	0.337	IN	HEATING SURFACE AREA	58	FT2
HEAD THICKNESS	1.75	IN	TUBE THICKNESS	0.095	IN
DIAMETER	4 (IPS)	IN	OA LENGTH	21 FT - 10.125IN	FT-IN

Refrigeration plant: Chiller

EQUIPMENT	S&T HEAT EXCHANGER	1	MANUFACTURER	BROWN FINTUBE ENGINEERING LTD.	
CRN#	В 9334.2		YEAR BUILT	1974	
BASIS OF INFORMATION	ATTACHED DATA SHEET		*THIS DOCUMENT IS NOT I	MEANT TO REPLACE THE ACTUAL DATA	
SERVICE	SWEET NAT GAS/ FREON 12		CODE	ASME SECT VIII UW12C	
DESIGN CONDITIONS					
DESIGN PRESSURE			DESIGN TEMP		
SHELL	1000	PSIG	SHELL	650	F
TUBE	1000	PSIG	TUBE	650	F
TEST PRESSURE	1500	PSIG	OPERATING PRESSURE	N/A	PSIG
MATERIAL SPECIFICATIONS					
MATERIAL	USS SA53 GR B		TENSILE STRENGTH	60000	
SIZE					
SHELL THICKNESS	0.337	IN	HEATING SURFACE AREA	72	FT2
HEAD THICKNESS	1.75	IN	TUBE THICKNESS	0.095	IN
DIAMETER	4 (IPS)	IN	OA LENGTH	26 FT - 10.125IN	FT-IN

Refrigeration plant: Float Cage

EQUIPMENT	FLOAT CAGE		MANUFACTURER	ROCKET INDUSTRIES				
CRN#	B 9619.2		YEAR BUILT	1974				
BASIS OF INFORMATION	ATTACHED DATA SHEET		*THIS DOCUMENT IS NOT MEANT TO REPLACE THE ACTUAL DATA SHEET					
SERVICE	GLYCOL/WATER CONDENSAT	Έ	CODE ASME UW12(B)71					
DESIGN CONDITIONS			DESIGN TEMP	300	F			
DESIGN PRESSURE	1080	PSIG	OPERATING PRESSURI	<u>920</u>	PSIG			
MAX ALLOW. PRESSURE	N/A	PSIG	HYDROTEST PRESSURI	E 1620	PSIG			
MATERIAL SPECIFICATIONS	S							
SHELL MATERIAL	A53-B		TENSILE STRENGTH	60000				
HEAD MATERIAL	A234 WPB		TENSILE STRENGTH	N/A				
SIZE								
THICKNESS	0.237	IN	CORR ALLOW.	NONE	IN			
SHELL DIAMETER	4	IN	OA LENGTH	26FT-39/64IN	FT-IN			
CAPACITY	0.21	FT3	X-RAY	SPOT				
JOINTS								
SEAM	SEAMLESS		JOINT	BUTT JOINT @ 80% EFFY				

Refrigeration plant: HP Receiver

EQUIPMENT	LOW TEMP SEPARATOR		MANUFACTURER	ROCKET INDUSTRIES	
CRN#	B 9591.2		YEAR BUILT	1974	
BASIS OF INFORMATION	ATTACHED DATA SHEET		*THIS DOCUMENT IS NOT MI DATA SHEET	EANT TO REPLACE THE ACTUAL	
SERVICE	OIL & GAS NON CORROSIVE		CODE	ASME UW12(A) 71	
DESIGN CONDITIONS			DESIGN TEMP	300	F
DESIGN PRESSURE	1080	PSIG	OPERATING PRESSURE	920	PSIG
MAX ALLOW. PRESSURE	1080	PSIG	HYDROTEST PRESSURE	1620	PSIG
MATERIAL SPECIFICATIONS					
SHELL MATERIAL	A53-B		TENSILE STRENGTH	60000	
HEAD MATERIAL	A516-70		TENSILE STRENGTH	70000	
SIZE					
THICKNESS	0.938	IN	CORR ALLOW.	0.125	IN
SHELL DIAMETER	18 OD	IN	OA LENGTH	N/A	FT-IN
CAPACITY	N/A	FT3	X-RAY	SPOT	
JOINTS					
SEAM	SEAMLESS		JOINT	BUTT JOINT @ 85% EFFY	,
NOZZLES					
DIAMETER	2	IN	WALL THICKNESS	0.343	IN
MATERIAL	A53-B		FLANGE RATING	600	

Refrigeration plant: Compressor

Horsepower	50-75
No. of Cylinders	8
CFM	184.7
Weight (lbs)	1115



R-22 COMPRESSOR RATINGS For 5F & 5H Compressors 15° Subcooling 15° Superheat 1750 RPM

LEGEND

Bhp. — Brake Horsepower
Cap. — Capacity (Tons)
SDT — Saturated Discharge Temperature (°F)
SST — Saturated Suction Temperature (°F)

	COMP	RESSOR	5F	20	5F	30	5F	40	5F	60	5H	40	5H4	46	5H	60	5H	66	5H	80	5H	86	5H1	20	5H1	26
	SST	SDT	Cap.	Bhp	Cap.	Bhp	Cap.	Bhp	Cap.	Bhp	Сар.	Bhp	Сар.	Bhp	Сар.	Bhp										
	-40	80	1.0	2.6	1.5	4.0	2.1	5.3	3.0	7.9	5.0	12.8	6.2	16.7	7.6	18.7	9.4	24.4	10.2	24.9	12.7	32.5	15.2	36.9	18.9	48.0
	-30	80 90	1.5 1.3	3.4	2.3 2.0	5.1 5.0	3.1 2.7	6.7 6.7	4.6 4.1	10.0 10.0	7.5 6.6	15.9 15.7	9.3 8.3	20.6 20.5	11.4 10.0	23.3 23.2	14.1 12.5	30.4 30.2	15.2 13.5	31.0 30.8	18.9 16.8	40.3 40.1	22.8 20.1	46.1 45.7	28.3 25.0	59.9 59.5
	-20	80 90 100 105 110	2.2 1.9 1.7 1.6 1.5	4.1 4.2 4.2 4.2 4.1	3.3 3.0 2.6 2.5 2.3	6.1 6.2 6.3 6.2 6.2	4.4 4.0 3.5 3.3 3.1	8.0 8.3 8.4 8.4 8.4	6.6 6.0 5.3 4.9 4.6	12.1 12.4 12.4 12.4 12.3	10.7 9.7 8.6 8.1 7.5	18.9 19.2 19.2 19.1 18.9	13.3 12.0 20.7 10.0 9.4	24.6 24.9 24.9 24.8 24.6	16.1 14.5 13.0 12.2 11.4	28.0 28.4 28.4 28.3 28.1	20.0 18.1 16.1 15.2 14.2	36.4 36.9 37.0 36.9 36.6	21.5 19.4 17.3 16.3 15.3	37.1 37.6 37.7 37.6 37.3	26.8 24.1 21.6 20.3 19.1	48.3 49.0 49.1 48.9 48.6	32.3 29.1 26.0 24.4 22.9	55.3 56.1 56.1 55.9 55.5	40.1 36.1 32.2 30.3 28.4	71.9 72.9 73.1 72.8 72.3
	-10	80 90 100 105 110 120	3.0 2.7 2.5 2.3 2.2 1.9	4.7 4.9 5.1 5.1 5.1 5.1	4.6 4.2 3.8 3.5 3.3 2.9	7.1 7.4 7.6 7.6 7.7 7.7	6.1 5.5 5.0 4.7 4.5 4.0	9.3 9.8 10.1 10.3 10.4 10.5	9.2 8.3 7.5 7.1 6.7 5.9	14.1 14.7 15.1 15.2 15.3 15.2	14.7 13.4 12.1 11.5 10.9 9.6	21.9 22.6 23.0 23.2 23.2 23.1	18.1 16.5 15.0 14.2 13.5 12.0	28.5 29.4 29.9 30.1 30.2 30.1	22.0 20.1 18.2 17.3 16.4 14.5	32.4 33.5 34.2 34.4 34.5 34.4	27.3 25.0 22.6 21.5 20.3 18.1	42.2 43.6 44.5 44.8 45.0 44.9	29.3 26.8 24.3 23.1 21.9 19.5	43.0 44.4 45.4 45.6 45.8 45.7	36.5 33.3 30.2 28.7 27.2 24.2	56.0 57.8 59.0 59.4 59.6 59.5	44.0 40.2 36.5 34.6 32.8 29.1	64.2 66.3 67.7 68.1 68.3 68.1	54.7 49.9 45.3 42.9 40.7 36.2	83.4 86.2 88.1 88.6 88.9 88.7
_	0	80 90 100 105 110 120	4.0 3.7 3.4 3.2 3.0 2.7	5.3 5.6 5.9 6.0 6.1 6.3	6.1 5.6 5.1 4.9 4.6 4.2	7.9 8.4 8.8 9.0 9.1 9.3	8.1 7.5 6.8 6.5 6.2 5.5	10.4 11.1 11.7 12.0 12.2 12.6	12.2 11.2 10.2 9.7 9.3 8.3	15.8 16.8 17.6 17.9 18.1 18.5	19.5 18.0 16.4 15.7 14.9 13.5	24.6 25.8 26.8 27.2 27.5 27.9	24.1 22.2 20.3 19.4 18.5 16.7	32.0 33.6 34.8 35.3 35.7 36.2	29.2 26.9 24.7 23.5 22.4 20.2	36.5 38.4 39.9 40.4 40.9 41.6	36.2 33.4 30.6 29.2 27.9 25.2	47.5 49.9 51.9 52.6 53.3 54.1	38.9 35.9 32.9 31.4 29.9 27.0	48.5 50.9 52.9 53.6 54.3 55.1	48.3 44.6 40.9 39.0 37.2 33.6	63.0 66.2 68.8 69.8 70.6 71.7	58.4 53.8 49.3 47.1 44.9 40.5	72.4 76.1 79.0 80.1 81.0 82.3	72.4 66.8 61.2 58.5 55.7 50.3	93.9 98.8 102.7 104.2 105.4 107.2
_	10	80 90 100 105 110 120 130	5.3 4.9 4.5 4.3 4.1 3.7 3.3	5.8 6.2 6.7 6.9 7.0 7.3 7.5	8.0 7.4 6.8 6.5 6.2 5.7 5.1	8.6 9.3 10.0 10.2 10.5 10.9 11.2	10.6 9.8 9.0 8.6 8.3 7.5 6.8	11.3 12.3 13.2 13.6 13.9 14.6 15.1	15.9 14.7 13.6 13.0 12.4 11.3 10.1	17.1 18.6 19.8 20.3 20.8 21.6 22.2	25.3 23.5 21.7 20.8 19.9 18.1 16.4	26.9 28.8 30.3 31.0 31.6 32.5 33.2	31.2 29.0 26.7 25.6 24.6 22.4 20.3	35.0 37.4 39.4 40.3 41.0 42.3 43.1	37.8 35.1 32.5 31.1 29.8 27.2 27.2	39.9 42.7 45.1 46.1 47.1 48.6 48.6	46.9 43.6 40.3 38.6 37.0 33.8 33.8	52.0 55.6 58.7 60.0 61.2 63.2 63.2	50.4 46.8 43.3 41.5 39.8 36.3	53.1 56.8 59.9 61.2 62.4 64.4	62.5 58.1 53.7 51.5 49.4 45.1	69.0 73.8 77.9 79.6 81.2 83.8	75.7 70.3 64.9 62.3 59.7 54.4	79.3 84.8 89.5 91.5 93.3 96.2	93.9 87.2 80.6 77.3 74.0 67.6	102.9 110.1 116.3 119.0 121.3 125.2
	20	80 90 100 105 110 120 130 135	6.8 6.3 5.8 5.6 5.4 4.9 4.5 4.2	6.0 6.7 7.3 7.6 7.8 8.3 8.7 8.8	10.2 9.5 8.8 8.5 8.1 7.4 6.8 6.4	9.1 10.0 10.9 11.3 11.6 12.3 12.8 13.1	13.6 12.6 11.7 11.2 10.8 9.9 9.0 8.5	11.9 13.2 14.4 14.9 15.5 16.4 17.3 17.6	20.4 19.0 17.6 16.9 16.2 14.8 13.5 12.8	17.9 19.9 21.6 22.4 23.2 24.5 25.6 26.0	32.2 30.1 28.0 26.9 25.8 23.8 21.7 20.7	28.6 31.2 33.4 34.4 35.3 36.9 38.2 38.7	39.7 37.1 34.5 33.2 31.9 29.3 26.8 25.5	37.2 40.5 43.4 44.7 45.9 48.0 49.7 50.3	48.1 44.9 41.8 40.2 38.7 35.6 32.5 31.0	42.5 46.4 49.8 51.3 52.7 55.2 57.2 58.0	59.7 55.8 51.9 49.9 48.0 44.1 40.4 38.5	55.3 60.3 64.7 66.7 68.6 71.8 74.4 75.5	64.1 59.9 55.7 53.6 51.5 47.4 43.3 41.3	56.5 61.6 66.1 68.1 70.0 73.2 75.8 76.9	79.6 74.3 69.1 66.6 64.0 58.9 53.9 51.4	73.5 80.1 86.0 88.6 91.0 95.2 98.7 100.0	96.3 89.9 83.6 80.5 77.4 71.2 65.1 62.0	84.4 92.0 98.8 101.8 104.6 109.5 113.4 115.0	119.4 111.6 103.8 99.9 96.0 88.3 80.7 77.0	109.6 119.5 128.3 132.3 136.0 142.4 147.6 149.7
	30	80 90 100 105 110 120 130 135	8.5 8.0 7.4 7.1 6.9 6.3 5.8 5.5	6.1 7.0 7.8 8.1 8.5 9.1 9.7 9.9	12.8 12.0 11.2 10.8 10.4 9.6 8.8 8.4	9.2 10.5 11.6 12.1 12.6 13.5 14.3 14.7	17.1 16.0 14.9 14.3 13.8 12.7 11.6	12.1 13.8 15.3 16.0 16.7 18.0 19.2 19.7	25.6 24.0 22.3 21.5 20.7 19.1 17.5 16.7	18.1 20.6 23.0 24.1 25.1 26.9 28.6 29.3	40.4 37.9 35.4 34.2 32.9 30.5 28.0 26.8	29.5 32.9 35.9 37.3 38.6 40.9 43.0 43.8	49.8 46.7 43.6 42.1 40.6 37.5 34.5 33.0	38.4 42.7 46.7 48.5 50.2 53.2 55.8 57.0	60.2 56.5 52.9 51.0 49.2 45.5 41.9 40.1	43.9 48.9 53.5 55.6 57.6 61.2 64.3 65.6	74.8 70.2 65.6 63.3 61.0 56.5 52.0 49.8	57.1 63.7 69.6 72.4 74.9 79.6 83.7 85.4	80.3 75.4 70.5 68.0 65.6 60.7 55.9 53.5	58.4 65.1 71.1 73.9 76.5 81.2 85.3 87.0	99.7 93.5 87.4 84.4 81.4 75.3 69.4 66.4	76.0 84.7 92.5 96.1 99.5 105.7 110.9 113.2	120.6 113.2 105.8 102.1 98.4 91.1 83.9 80.3	87,1 97,2 106,3 110,5 114,4 121,5 127,6 130,3	149.6 140.4 131.3 126.7 122.1 113.1 104.1 99.6	113.2 126.3 138.1 143.5 148.7 158.0 166.0 169.5
-	40	80 90 100 105 110 120 130 135	10.6 9.9 9.3 9.0 8.7 8.0 7.4 7.1	6.0 7.0 8.0 8.5 8.9 9.8 10.5 10.9	15.9 14.9 14.0 13.5 13.0 12.1 11.2 10.7	9.1 10.6 12.0 12.7 13.3 14.5 15.6 16.1	21.2 19.9 18.6 18.0 17.3 16.1 14.8 14.2	12.0 14.0 15.9 16.8 17.7 19.3 20.9 21.6	31.8 29.9 28.0 27.0 26.1 24.2 22.3 21.3	17.4 20.6 23.6 25.0 26.4 28.9 31.1 32.1	50.1 47.1 44.2 42.7 41.3 38.4 35.5 34.0	29.5 33.7 37.6 39.4 41.1 44.3 47.2 48.5	61.6 58.0 54.4 52.6 50.8 47.3 43.7 42.0	38.3 43.8 48.9 51.2 53.5 57.6 61.3 63.0	74.5 70.2 65.9 63.7 61.6 57.3 53.0 50.9	43.8 50.2 56.1 58.8 61.4 66.3 70.6 72.6	92.5 87.1 81.7 79.1 76.4 71.1 65.8 63.2	57.0 65.3 73.0 76.5 80.0 86.3 91.9 94.4	99.4 93.6 87.8 84.9 82.1 76.4 70.7 67.8	58.2 66.7 74.6 78.2 81.7 88.1 93.7 96.3	123.2 116.1 109.0 105.4 101.8 94.8 87.7 84.2	75.8 86.9 97.0 101.7 106.2 114.6 121.9 125.3	149.2 140.5 131.9 127.5 123.2 114.6 106.1 101.8	86.8 99.6 111.4 116.9 122.1 131.7 140.3 144.2	185.1 174.3 163.6 158.2 152.9 142.2 131.6 126.4	113.0 129.5 144.8 151.9 158.7 171.2 182.4 187.5

Refrigeration plant: Attachments

- Hydrostatic Pressure Test Report
- Ultrasonic Examination Form
- ABSA Certificate of Inspection Permit
- Original Data Sheets (basis of report)
- Fabrication Drawings (basis of report)
- PFD (basis of report)

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HYDROSTATIC PRESSURE TEST PROCEDURE

ASME SEC. VIII DIV 1 PRESSURE VESSELS ASME B31.1, ASME B31.3 & ASME B31.5 PRESSURE PIPING SYSTEMS

CUSTOMER NAME:	J Cor	JOB# <u>261340</u>	DATE_A	pil 23/09
				A

1.0 GENERAL

- 1.1 All hydrostatic testing of process piping and vessels shall be in accordance with ASME Sec. VIII Div. 1, ASME B31.1, ASME B31.3, ASME B31.5 and CSA B52 as applicable.
- 1.3 The materials used in the piping system construction are limited to P-1 and P-8 materials, with a flange class of 150 or greater, otherwise a job specific procedure must be accepted by ABSA prior to the test.

2.0 TESTING DESIGN BASIS

- 2.1 The test pressure shall be at 150 % of the design pressure.
- 2.2 A pressure relief device is recommended, having a set pressure of approximately 130 % of the test pressure in order to relieve excessive testing pressure. Existing pressure relief devices to be temporarily removed or blocked off if test pressure exceeds their rating to be returned to service immediately at the successful completion of the test. Pressure relief devices may not be required assuming the vessel is in constant supervision, located in a stable/controlled environment (to minimize temperature fluctuations) and manually pressurized (i.e. hand pump).
- 2.3 Test manifold(s) and temporary test piping shall have been designed for a pressure not less than the pressure relief device set pressure and shall have been tested in accordance with ASME B31.1, B31.3 and B31.5 as applicable.
- 2.4 The metal temperature shall be maintained at a minimum of 17 °C (30 °F) above the minimum design metal temperature for the piping to minimize the chance of brittle failure.

3.0 TESTING PROCEDURE

- 3.1 All joints must remain exposed for the duration of the test. Where possible vessels shall be blinded at their piping system connections to prevent pressure from entering the vessels.
- 3.2 Vents shall be installed at all high points in the system in order to purge any possible air pockets.

3.3 Testing:

- a) If possible, no unauthorized personnel shall be allowed within the room containing the vessel(s) at the time of pressurization, having a solid wall between them and the vessel at during these times. Barriers shall be used to keep this area secure.
- b) Carefully pressurize the system to 50% test pressure and hold for the duration of the visual leak inspection.
- c) Visually inspect all welds, flanges, threads and other possible leak sources per ASME Sect. V article 10. Mark all leaks for repair.
- d) Depressurize carefully and repair all leaks found. Repeat the leak test (steps b to d) until the system is liquid tight at 50% test pressure
- f) Thereafter increase the pressure in increments of 689 kPa (100 psig) until the test pressure is reached.
- g) During each hold period, visually check for leakage at all possible sources and by monitoring the ability of



the system pressure to remain constant during this time. The hydrostatic test report shall be completed, denoting all hold pressures and the time shall be logged at each step.

- h) A minimum of two calibrated gauges shall be used to monitor the pressure. The gauge ranges shall be not less than 1.5 times nor more than 4 times the final test pressure.
- i) If a leak is detected at any time; the leak is to be marked, the system safely depressurized, and the leak repaired and the test begun again (step b).
- j) Once the final pressure is reached, it shall be held for a minimum of 60 minutes and then checked for leaks. If no leaks are detected the test is successfully completed.
- 3.4 **Depressurizing** the system shall be slowly and safely depressurized.
- 3.5 **After testing** the QCI (and the owner's inspector when applicable) will sign the test report stating that they have witnessed and accepted the test.

PIPING AND/OR EQUIPMENT TO BE INCLUDED IN TEST (INCLUDE CRN NUMBERS WHEN APPLICABLE):

ID	Description	C.R.N.	Vol M ³
	Cow temp Seperator	B-9592.2	
······	Low temp Seperator	Po-9591.2	
	Ex. Level Con. Fost Cage	Po-9619.2	
		, , ,	

	Total volume		

PERSONNEL WITHIN TESTI	NG AREA (INCLUDE REASON FOR ATTENDANCE):
Pace quality control inspector_	Fampali
Pace quality control manager_	<i>σ</i>
Pace testing technician	Brey Tolmson
Owner's inspector (NAME)	/



PRESSURE TEST	AFFIDAVIT	DATE:	Pil 23	_ TIME:	7 : 00
PERSONNEL WITH	IN TEST AREA:	Reyn	V		
SYSTEM TESTED:	JAy	Core Skid			
ADDRESS OF TEST	r: <u>421 -</u>	116 Ave			
APPLICABLE CRN I	NOS.: B-9	592.2 B-95	91.2, 3	-9619.2	
		,		**************************************	
TEST MEDIA: WA	ter	DESIGN PRESS:	1080 PSIG	_TEST PRE	1500 :SS: <u>420 PS1</u> 6-
TEST GAUGE ID #:	1. <u>DG-1500-1</u>	2. <u>PG 1560-2</u> CALI	BRATION DAT	E: 1. <u>July /</u>	68 2. July 108
PRESSURE TEST				· · · · · · · · · · · · · · · · · · ·	4
	@ <u>850</u> PSI	TIME <u>9:30</u>	PASS 🗸	REDO	PASS
	@ <i>950</i> PSI	TIME <u>9:55</u>	PASS V	REDO	PASS
	@ <u>/050_</u> PSI	TIME <u> 0:10</u>	PASS _/_	REDO	PASS
	@ <u>//50</u> PSI	TIME 10:40	PASS _	REDO	PASS
	@ <i>[250]</i> PSI	TIME <u>10:55</u>	PASS V	REDO	PASS
	@ <u>/350</u> PSI	TIME 1120	PASS V	REDO	PASS
FINAL	@ <u>/500</u> PSI	TIME 11:40	PASS	REDO	PASS
ACCEPTANCE:					
PACE INDUSTRIAL	INC	QCI NAME			
DATE:	April 23/09				agence or the Anthonormous Contraction of the Contr
OWNER REP.	N	NAME:			
DATE:		SIGNATURE	n '		
ABSA SAFETY COD	ES OFFICER	NAME:			
DATE:		SIGNATURE			

	ISC	O 9001:200	<u> </u>	ULTR	ASONIC	CEXA	MINAT	TION FOI	RM	U	- 323	44
ACUREI CLIENT - ATTENTION - ADDRESS -		PACK Joi 121-116	NOWS	CTRIAL UN INLUM	AKS	PO/WO		2009/6	2256	PAG TIMI		OF 4/
PROJECT ITEM(s) EXAMINED _ - -		X VESSI X CHILL				ACCEPTA STANDAI PROCED TECHNIC	RD URE NO.	PACE SE CLIL U	-		/./DATE /./DATE	104120
PART NO. SCOPE		M3 SI	YOWN INESS L	NECK	0 2 V 2	MATERI	AL CHILL	C/5		_ THICKNES	ss AssMc	NUN
TEST DETAILS METHOD ATHI INSTRUMENT	CKNESS	·		I FLAW DET	ECTION 3702		CONTACT	5302	Cal. Due	☐ IMMERS		12.
CAL. BLOCK CAL. BLOCK CAL. BLOCK	62	ments on the barrier	<i>e/s</i> s	6/N 4T, 6/N	1462	CABLE -	- TYPE	50N06 E	L	ENGTH		
INFORMATION - 1	RANSDU	JCERS & C	ALIBRATIONS -	ALL MEASUR	EMENTS IN - 🕡	METRIC	☐ IMPERIA	unida dia Baid			ABAMBE BIT	Na granisa.
TEST PROBE SINGLE 1 1 45° C	DUAL DUAL	FREQ. (MHz)	SER. NO.	PROBE DIA.	TRANSFER VALUE	TEST FRONT	FROM BACK	REFERENCE REFLECTOR	REFER dB M/X	RENCE % FSH	SCAN SENSITIVITY	RANGE 50mm
3								3				
TEST SURFACE			Worden and the control of the contro									
SURFACE CONDITION SURFACE TEMPERAT		□ As GRO □ <0°C(32)	·	☐ AS WE	ELDED 2°F) to 120°C(MACI		☐ SHOT BLAST☐ 120°C(250°I		(E00 ⁰ E)	CLEAN BA	~==~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
RESULTS	ONL	- 10 0(0)		0 0(02	- 1 / 10 120 0(DRAW	PRODUCTION OF THE PRODUCTION O	G 120 C(230 I) 10 200 CI	(300 F)	₩ 2200 C(3	00 F)
	15 PG	21:	3 \$ 4									
SIGNATURES												
CLIENT REPRESENTA	TIVE I	Brian	Sta	Sh K	<u> </u>	BS	SIGNATU	RE	DTR N	10. 27	8458	
PRINT NAME		CGSB Level	1 ST TEGHN	DWARICAN SICIAN SINT LEVEL	TL cG	SB Level SB Reg. No	2 ND TECHNI	CIAN SNT LEVEL	REPOR REVIEV		İNITIAL	
Scope of Services The agreement of Acuren Grounderstood that all description construed as representations.	ns, commen	nts and expressi	ions of opinion reflec	ct the opinions or	observations of Acu	ren Group Inc. b	ased on informat	tion and assumptions si	applied by the ow	ner/operator an	d are not intended n	ressly or can they be

as a result of the data or other information provided by Acuren Group Inc. In no event shall Acuren Group Inc.'s liability in respect of the services referred to herein exceed the amount paid for such services.

Standard of Care

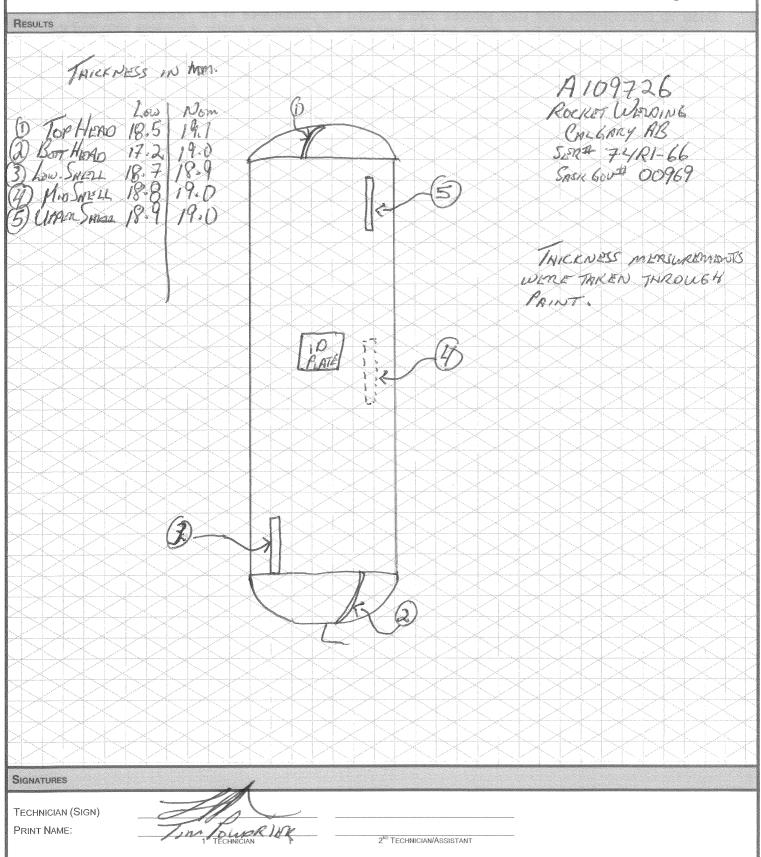
In performing the services provided, Acuren Group Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by Acuren Group Inc.

	7/	ISO 9001:2000

NDE CONTINUATION REPORT

REPORT 4-32344

ACUREN	P	1			aproxy.
CLIENT	INCE	/NOUSTRIAL	DATE	2009/ <i>FEB</i> /26 PAGE	OF 4
Results					



WHITE - CLIENT COPY CANARY - OFFICE COPY PINK - TECHNICIAN COPY GOLD - OFFICE COPY

					anpo-
[ISO 9001:2000]	NDE CONTIN	UATION REF	PORT	REPORT U 323 44	
CLIENT PACE INDUSTRI	de la companya de la		DATE 2009/F8	8/26PAGE 3 OF 4	
RESULTS			Me PE		
THERWASS IN MM	Q.				K
Marin Low Nom (D) OPHEND 243 250 (D) Set Hood 21/3 24,6 (3) Low Short 23.4 23.6				H 109727 ROCKER WALDING CARGARY, AB SISTA 74/R1-65	
3) Constitue 23.4 23.6 (4) Mis Stree 23.8 24.4 (5) Unio Stree 23.6 23.9 (5) 2" Filler 5.03 5.3				SEK 4 74/1-60	
		RATE	NIAKE		
			3		
			9		
					K

SIGNATURES

TECHNICIAN (SIGN)

PRINT NAME:

1* TECHNICIAN

2** TECHNICIAN/ASSISTANT

	[ISO 9001:2000]	NDE CONTINUATION F	REPORT REP	ORT
ACUREN CLIENT	PACE INDIA	TRIAL.	DATE 2009/F88/26PAG	se <u>4</u> of <u>1</u>
RESULTS			CRNBB CRNBB STON	
TECHNICIAN (SIGN) PRINT NAME:	Jan. TECH	LELIGRIMA 2 ^{NO} TECHNICIAN/A	SSISTANT	



VESSEL (A): 0109728

DATE OF INSPECTION: 2011 Feb 16



Certificate of Inspection Permit

JAYCOR RESOURCES INC

4725 68 AVENUE

EDMONTON, AB T6B 2N2

COMPANY CODE:

DESCRIPTION: FLOAT CAGE

LOCATION: 4725 68 AVE, EDMONTON

MANUFACTURER: ROCKET INDUSTRIES LTD.

Max. Inspection Interval: 1.00 Yr

Year Built: 1974

CRN: B9619.2

Serial #: 74RI-67

Volume: 0.500 M3

Heating Surface: Surface Area:

					Pressu	re Relief Valves	5
PART	MAX. ALLOWABLE PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
VESSEL	7446 KPA	149 C		SV1			TO BE INSTALLED

Terms and Conditions:

Owner to establish and maintain an integrity assessment program for this pressure equipment.

'PSV ON A#0109727'

Permit Issued by: AMUNDSON, WIL

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.

ABSA: 🖂 9410 - 20th Avenue, Edmonton, AB, T6N 0A4

(780) 437-9100



VESSEL (A): 0512767

DATE OF INSPECTION: 2011 Feb 17



Certificate of Inspection Permit

JAYCOR RESOURCES INC

4725 68 AVENUE EDMONTON, AB T6B 2N2

Max. Inspection Interval:

Year Built: 2009

CRN: 1368.92

Serial #: 28629

Volume: 0.210 M3

Heating Surface: Surface Area:

COMPANY CODE:

DESCRIPTION: REFRIGERANT RECEIVER LOCATION: 4725-68 AVE, EDMONTON MANUFACTURER: HENRY TECHNOLOGIES INC

Pressure Relief Valves

						TOTAL FULL CO	
PART	MAX. ALLOWABLE PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY LOCATION	
VESSEL	2758 KPA	343 C	-29 C	SV1 SV2	2758 KPA 2758 KPA	11 M3/MIN VESSEL 11 M3/MIN VESSEL	

COPY

Terms and Conditions:

NOT SUBJECT TO ANNUAL FEES AS PER INFORMATION BULLETIN IB06-001 (e) (iv) PRESSURE VESSELS HAVING A VOLUME NOT EXCEEDING 0.5 M3 (500 LITRES) THAT ARE DESIGNATED FOR THE FOLLOWING USES: VESSELS CONTAINING A GROUP A1 REFRIGERANT AND IN MECHANICAL REFRIGERATION SERVICE;

Owner to establish and maintain an integrity assessment program for this pressure equipment.

Permit Issued by: AMUNDSON, WIL

Signature: Will Januara Co.

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

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VESSEL (A): 0109727 **DATE OF INSPECTION: 2011 Feb 16**



Certificate of Inspection Permit

JAYCOR RESOURCES INC

4725 68 AVENUE EDMONTON, AB T6B 2N2

Max. Inspection Interval: 1.00

Year Built: 1971

CRN: B9591.2

Serial #: 74RI-65

Volume: 0.272 M3

Heating Surface: Surface Area:

COMPANY CODE:

JOP **DESCRIPTION: LOW TEMPERATURE SEPARATOR**

LOCATION: 4725 68 AVE, EDMONTON MANUFACTURER: ROCKET INDUSTRIES LTD.

Pressure Relief Valves

PART MAX. ALLOWABLE MAX, TEMP MIN, TEMP VALVE ID **SETTING** CAPACITY LOCATION **PRESSURE** VESSEL 7446 KPA 149 C SV1 6895 KPA 98 M3/MIN VESSEL PIPING

Terms and Conditions:

Owner to establish and maintain an integrity assessment program for this pressure equipment.

'PSV SERVICED 2009-04. UT DONE BY ACUREN 2009-2-26. RECOMMEND HYDRO BE DONE BEFORE PLACING VESSEL INTO SERVICE

Permit Issued by: AMUNDSON, WIL

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

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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.



VESSEL (A): 0109726
DATE OF INSPECTION: 2011 Feb 16

ABSA
the pressure equipment safety authority

Certificate of Inspection Permit

JAYCOR RESOURCES INC

4725 68 AVENUE EDMONTON, AB T6B 2N2 Max. Inspection Interval: 1.00

Year Built: 1974

CRN: B9592.2

Serial #: 74RI-66

Volume: 0.190 M3

Heating Surface: Surface Area:

COMPANY CODE:

DESCRIPTION: PRODUCT FLASH TANK
LOCATION: 4725 68 AVE, EDMONTON
MANUFACTURER: ROCKET INDUSTRIES LTD.

Pressure Relief Valves

PART MAX. ALLOWABLE MAX. TEMP MIN. TEMP VALVE ID SETTING CAPACITY LOCATION
PRESSURE

VESSEL 7446 KPA 149 C SV1 6895 KPA 98 M3/MIN VESSEL PIPING

Terms and Conditions:

Owner to establish and maintain an integrity assessment program for this pressure equipment.

'PSV SERVICED 2009-04. UT DONE BY ACUREN 2009-2-26. RECOMMEND HYDRO BE DONE BEFORE PLACING VESSEL INTO SERVICE'

Permit Issued by: AMUNDSON, WIL

Signature

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

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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	y <u>H</u>	enry Techn	ologies/AC&R C	Components	s, 701 South	Main St., Chatha	am, IL 62629		
2.	Manufactured for	St	ock		(Name a	and address of m	ianutacturer)				
•			Linknown		(Name	and address of	purchaser)	·			
٥.	Location of installat	ion —	Unknown			(Name and addr	ess)				
4.		Separa		28628 -		1368.9C	RF-140		28628 - 28629		2009
5	•	oriz, or vert. hysical or		(Mfgr's se	•	(CRN)		ring No.) BOILER AND PRES	(Nat'l, Bd, No.)		(Year Built)
٥.					form to ASME Rules			BOILER AND PRES	2007 Edition	n	
				·		,			Year		
to	2	2008 Ad Addenda		·		1518-5 Code Case Nos.			-	10.1001.0	
6. 5	Shell:	SA-53			.312"	0"		14.00"	Special Service per L	06-120(d) 6' 1.95	; 11
	Ma	atl. (Spec, N	lo., Grade)		Nom. Thk. (in.)	Corr. Allo		Diam, I.D. (ft. & in.)	Len	gth (overall) (
7. \$	Seams:	E (Welded, D	hl 0	None .T. (Spot or Full)	85%	-		Type 2	None	65	1_
		l., Lap, Butt		. I. (Spot or Full)	Eff. (%)	H.T. Temp. (°F) Time (hr)	Girth (Welded, Dbl. Sngl., Lap, Butt)	R.T. (Spot or Full)	Eff. %	No. of Cours
8. H	leads: (a) Matl			A-516 Gr.			(b) Matl.		A-516 Gr. 70	1	
		· · · · · · · · · · · · · · · · · · ·		(Spec. No., Grad	le)	т	····		(Spec. No., Grade)		-
	Location (Top, Bottom, Ends)	Minimu Thickne		1	1	Elliptical Ratio	Conical	Hemispherical	Flat		Pressure
(a)	End	.235			- Kadids	2:1	Apex Angle	Radius	Diameter		r Concave) Cave
(b)	End	.235	i" 0"	-	_	2:1	-		1		cave
if re	movable, bolts used	d (describe	other fastenii	ngs)	· · · · · · · · · · · · · · · · · · ·	1	<u> </u>		<u> </u>		5410
		400					(Mat'l Spec	No., Grade, Size, No.)			
9. N	1AWP	400 (interna			(external)		psi at max. temp	. 650 (internal)		(externa	*F.
	Min. design metal te	emp.	-20	°F at	400 psi.	Hydro. , pne	eu., or comb. test		440	(externa	ıı, psi.
10.	Nozzles, inspection	, and safe	ty valve openi	ngs:							
	Purpose nlet, Outlet, Drain)	No.	Diam, or Size	Туре	Mati.	1	om.	Reinforcement	How		Location
Inle		1	2.375"	Flange	SA-53 Gr. 8		nk. 35"	Material Integral	Attached Welder		
Out	let	1	1.75"	Thread	SA-106 Gr.		79"	Integral	Welde		<u>-</u>
NP.	T Conn.	2	.50"	Thread	SA-105	.20	05"	Integral	Welde	d	-
									-		-
_								-	-		
11. 5	Supports: Skirt	No	Lugs		Legs -	- Other	Moun	ting Brkt A	- \ <u>-</u>		- Oh - II
	•	(Yes or r	10)	(No.)	<u>- (No</u>	0.)		(Describe)		Velded to (Where and	
						y Commission	ed Inspectors hav	e been furnished for	the following		ŕ
	items of the report:			-corrosive s	(Name of part, ite	em number. Mfor	s, name and identify	ring stamp)			
Exe	mpt from Charr	oy Impa	ct Testing p	er UCS-66	(b)						
	•							· · · · · · · · · · · · · · · · · · ·			
					CERTIFICATE OF	CUODIEIE) E	COMPULANCE				
,	We certify that the s	statements	made in this	report are corre				n, and workmanship	of this vessel		
(conform to the ASM	E Code fo	or Pressure Ve	ssels, Section	VIII, Division 1. "U"	Certificate of A	uthorization No.	, and working	20,159		
	expires	April 1,									
(Date <u>Mar</u>	ch 2, 20	009 Co	. Name	Henry Technology		R Components	Signed	Donne		/
						(Manufacturer)			(Repres	entative)	
,	<i>t</i> 1				CERTIFICATE O						
	/essel constructed	· —			ologies/AC&R C			at	Chatham, II		
,		Illinois	Zano commissi	on issued by tr and emplo		Boiler and Pre		pectors and/or the Sta			
 H			nt described in		rer's Data Report or		March 2	Steam Boiler of C			
								vith ASME Code, Sec	and state that,		
1	. By signing this ce	ertificate n	either the Insp	ector nor his e	mployer makes any	warranty, expre	essed or implied.	concerning the pressi	re vessel		
c	lescribed in this Ma	nufacture	's Data Repor	t. Furthermore	, neither the Inspect	or nor his emp	loyer shall be liab	e in any manner for a	ny personal		
ir	njury or property da	mage or a	loss of any ki	nd arising from	or connected with the	nis inspectión.	<i>)</i>				ł
Е	Date Mar	ch 2, 20	09 Signe	d Ja	in the	Lucie !	Commis		NB11874AB I		
	· · · · · · · · · · · · · · · · · · ·			•	((Authorized Insi	pector)		(Nat'l Board (in	cl. endorsements), Sta	ate, Prov. and	No.)



GOVERNMENT OF THE PROVINCE OF ALBERTA DEPARTMENT OF MANPOWER AND LABOUR BOILERS BHANCH

MANUFACTURERS' SPECIFICATIONS FOR UNTIRED PRESSURE VESSEL (Uso Reverse Side for Heat Exchangers)

	ettions enia	lueprints of desig								
O ACCOMP		AWING NO.						on No		
		Rocket I	ndustri	es Ltd.				200		
		roduct Fla		(Name and	Mudress)	cond	lensate	Non-	Corrosi	ve
		30 p.s.i.					f marrel au a.	The second secon		
		ew & Cold, 1								
	Procedure	Regist. No	WP 415	RW_1&2.I	Preheat	NA	P. Post	neatxxx	(Yes or No)	125
Shell: Ma	terial A-5	53 B	Spec. No.)	s. 60,0	00	Thickness		Cor	r. Allow	
		D. Length b								
	(Type	ess Effy.						Carlot Carlot		
Heads:	Material (a) A-516-7	0	(b)			(c)			
Т	'.S. (a)	70,000		(b)			(c)			
Head Hot or scation For	Cold Min. Th	ming Allowance	Crown Radius	Knuckle Radius	Ellip- Ratio	L'gth Str. Flance	Conical Angle	Hemisph. Radius	Flat Dia.	Side t Press
(2)		1 1 1							KIN H	- 1,22
(a) mo								8.4		
med. (c)										130
If Removables						14 / V 14		. X So		
				30 - 10 300				100	Property and	I/D
Staybolts	olts Uwdi	Material, No., Die, at	root of thread			Ma	x. Pitch	The second second second second	X(V	I/D mical)
Staybolts	olts Uwdi	Material, No., Dis. at : Manholes: N	root of thread		Size	Ma	x. Pitch	(Floriz.)	X(V	I/D entical)
Staybolts	olts Uwdi	Material, No., Die, at	root of thread		Size	Ma	x. Pitch	(Floriz.)	X(V	I/D entical)
Staybolts	olts Uwdi	Material, No., Dis. at : Manholes: N	root of thread		Size	Ma	Location	(Floris,)	X. (V	I/D entical)
Staybolts Inspection	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I	root of thread No.		Size	Ma	Location Location Location	(Floris.) Top Sea	x (v	I/D entical)
Staybolts Inspection Safety V	alve Outlet	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No.		Size	Ma	Location Location Location Location	(Floris.) Top Sea	x «	I/D errical) Seam
Staybolts Inspection Safety V Supports: Nozzles	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No		Size	2" Other .	Location Location Location Location	(Flotis.) Top Sea	m Butt	I/D mid) Sean
Staybolts Inspection Safety V Supports: Nozzles	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No		SizeSize size	2" Other .	Location Location Location Location	(Floriz.) Top Sea	m Butt	I/D miol) Sean
Staybolts Inspection Safety V Supports: Nozzles	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No		SizeSize size	2" Other .	Location Location Location Location	(Floriz.) Top Sea	m Butt	I/D miol) Sean
Staybolts Inspection Safety V Supports: Nozzles	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No		SizeSize size	2" Other .	Location Location Location Location	(Floriz.) Top Sea	m Butt	I/D miol) Sean
Staybolts Inspection Safety V Supports: Nozzles	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No		SizeSize size	2" Other .	Location Location Location Location	(Floriz.) Top Sea	m Butt	I/D miol) Sean
Staybolts Inspection Safety V Supports: Nozzles	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No		SizeSize size	2" Other .	Location Location Location Location	(Floriz.) Top Sea	m Butt	I/D miol) Seam
Staybolts Inspection Safety V Supports: Nozzles	n Openings:	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	root of thread No		SizeSize size	2" Other .	Location Location Location Location	(Floriz.) Top Sea	m Butt	I/D miol) Seam
Staybolts Inspection Safety V Supports: Nozzles Manholes	alve Outlet Skirt Y (Yes o	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number RS. Lugs Material MATERIAL	No. 2	Legs	Size	Other	Location Location Location Location Location	Top Sea	m Butt	Seam
Staybolts Inspection Safety V Supports: Nozzles Manholes	alve Outlet Skirt Y (Yes o	Material, No., Dia. at Manholes: I Handholes: I Threaded: I ts: Number	No. 2	Legs	Size	Other	Location Location Location Location Location	Top Sea	m Butt	Seam



GOVERNMENT OF THE PROVINCE OF ALBERTA DEPARTMENT OF MANPOWER AND LABOUR BOILERS BRANCH

MANUFACTURERS' SPECIFICATIONS FOR UNFIRED PRESSURE VESSEL

(Use Reverse Side for Heat Exchangers)

ACCOMPAI Manufactur	NY DRAW	ING NO.	18-				Registratio	on No	Province rive	Der No
Manufactur	ed by: F		No.			(mittady appro	yed in south out	Tionne B.	Acg. 140.
	cu by	Rocket II	dustries	Ltd.	Address)					
Type of Ve	wol · Low	emperatu	re Separ	ator	Service	e Oil	& Gas	Non-C	COLLOSIA	7e
Davies Davi	1080	p.s.i. (a 300	o _F	Fabricatio	n to A.S.M	I.E. Code,	Para. No.	UW-12 (J	(Ymar
. Design Pres	S#9.0.0	& Cold10	080		н	drostatic T	est Press	1620		p.s.
. Max. allow.	Press. New	& Cold.	- 416 DE	7 102-		NA (Dog I	Hoot N	A	
Welding Pr	rocedure Re	egist. No	VP 415 RV	A TØZ Þ	reheat	WA	r. Post i	neat	(Yes or No)	.125
Shell: Mate	rial A-53	BB LE. or A.S.T.M.	T.S.	60,0	0.0	Thickness	.938	Cor	r. Allow	. 110
Shell Dia.	18"0.D.	Length be	tween Tans	•	Le	ength U.A.		Cap	. Cu. 2	
. Seams: Lon	g Seamle	ess Effy. 9	70	Gir	th But	t Eff	fy % 85	<u> </u>	X.R.Pai	Complet
. Seams: Lon	aterial (a)	A. 516-	. 70	(b)	3		(C)	***************************************		
T.S	. (a)	70,000		(b)			Conical	Hemisph.	Flat Dia.	Side
Head Hot or Co	Min. Thick, After Forming	Corrosion Allowance	Crown Radius	Knuckle Radius	Ellip- Ratio	L'gu. Str. Flange	Angle	Radius	'd'	Pres
n l									-	-
om (b)		1		7 117				78		
- 19 ² 3				1	4 1	1	11	100		
rmed. (c)	6,11									
Staybolts Inspection	Mate	No. Dis. st Manholes: N	root of thread		Size	M	Location	(Horiz.)	, ,	· · · · · · · · · · · · · · · · · · ·
	I	Handholes: 1	7o		Size		. Location	mon C	0.2m	
		Threaded: N								
. Safety Val	ve Outlets:	Number			Size		. Location	1		
. Supports: S	Skirt Yes	Lugs		Legs		Other		Attac	hed	
. Nozzles I	Oia, or Size	Naterial	No. Wall Thickness	, B	Reinforcing Rin Vidth, Thickness	g s	Flange Rating	No. of Norzles	Cover	Pating or ickness
& Manholes	2"	A 53B	.343	R	None		600	2	6	00
	4	R JJD								
	27 80			_						
							109			
		70.								
				- 125	11		1 10 11			
	RE FOR MA	ANUFACTU	RER DOY	le N.	Chenow	ith ed unless o	ertified.	Date .	Jan. 3,	/74
		NOTE: S	pecifications	WIII HOU	be accept	eu umess e	Cr cerron.			
SIGNATUI OR DEPART		NOTE: S	Annual	for	1080)	p.s.i.	a 300		Deg. 1



GOVERNMENT OF THE PROVINCE OF ALBERTA DEPARTMENT OF MANPOWER AND LABOUR BOILERS BRANCH

MANUFACTURERS' SPECIFICATIONS FOR UNFIRED PRESSURE VESSEL (Use Reverse Side for Heat Exchangers)

B-9619 · 2

NOTE: Spo				a must ho	submitted In	I I I I MICAIC, III	accordance				
	ecifications	and Blueprir	nts of design	673-3-5)		F	Registratio	1. Section 4 o	vovince give	Reg. No.)
ro ACC	YNA9MC	DRAWIN	G NO.	nomb t to	4303	Str	eet S.1	diready approve	gary, Al	herta	
1. Manu	factured	by:ROC	KET IND	OBININ	(Neme and	Address)	Glyco	1/Water	, Conden	sate	
2. Type	of Vessel	Ext.	Level C	ont. r	Oat Ca	Service	(Water, oil or a	Conden	UW12(1	3)71
3. Desig	gn Press	1080	p.s.i.	g 3()()F	Fabrication	1 to A.S.M	.E. Coue,	1620		(Year) . p. S. l.
4. Max.	allow, Pro	ess. New &	Cold,	080		Ilyo	irostatic T	est Press.	1620	are the con	
			int Ma	WP415	2.W	Preheat	A	F. Post H	leat.	Yes or No)	
		4 53 1	1	Т	s. 60,0	00 '	Phickness	621	Corr.	Allowing	21
	/	111.	I anoth h	ofween Id	ns	11					
		Z.nmlnge	Trees	100	Gi	rthBut.t.	E1	ly %) V	(Spot o	Complete)
8. Sear	ns, Long	(Type of John	M-234 W	PB	(b)			(c)	ter the annual setting	m	x . x man
9. Hea	ds: Mate	riai (a)	iin ii		(h)			(c)	Hemisph.		
	T.S.	(a)	Corrosion	Crown	Knuckle Radius	Ellip- Ratio	L'gth Str. Flange	Contral Angle	Hemisph. Radius	Flat Dia.	Side to Press
Head Location	Formed	After Forming	Allowance	Hadius	Region						
Top (a)				-		-					
Bollom (b)						-		State of Sta			
Intermed. (c)											
(b)	Bolta U	Usedi	No.	Dia. An	a st Root of T	hread Spec	. No. 0	insket Mat'l	"m" factor	O/D	1/D
(c) II R 10. Sta 11. Ins	Bolts Wybolts	Mate penings: I	No. Wanholes: Handholes:	Die. Are root of three No	ea et Root of T	Size Size Size Size Size	r, No.	Inx. Pitch Locatio Locatio Locatio Locatio Locatio	"m" factor (Horis.) n	O/D X	I/D (Venical)
(c)	Bolts 1 ybolts pection O	Mate penings: I f e Outlets:	No. Wanholes: Handholes: Threaded: Number	No	ea et Root of T	Size Size Size Size Size	r, No.	Inx. Pitch Locatio Locatio Locatio Locatio Locatio	"m" factor (Horiz.) n Attac	0/D X	I/D (Venical)
(c) 11 R 10. Sta 11. Ins 12. Sa 13. Su 14. No	Bolts Wybolts	Mate penings: I e Outlets: kirt	No. Wanholes: Handholes: Threaded: Number	No.	ea et Root of T	Size Size Size Size Size Size Size Size	o, No. O	Inx. Pitch Locatio Locatio Locatio Locatio Locatio	"m" factor (Horis.) n	0/D X X 1774	I/D (Venical)
(c) 11 R 10. Sta 11. Ins 12. Sa 13. Su 14. No	Bolts (ybolts pection O fety Valv pports: Sl	Mate penings: I f e Outlets:	No. Rial, No., Dis. Manholes: Handholes: Threaded: Number L	No.	Leg	Size Size Size Size Size Size Size Size	o, No. O	Inx. Pitch Locatio Locatio Locatio Locatio Locatic	"m" factor (Horiz.) n Attac	0/D X X 1774	(Vertical)
(c) II R 10. Sta 11. Ins 12. Sa 13. Su 14. No	Bolts Wybolts	Mate penings: I e Outlets: kirt	No. Rial, No., Dis. Manholes: Handholes: Threaded: Number L	No.	Leg	Size Size Size Size Size Size Size Size	o, No. O	Inx. Pitch Locatio Locatio Locatio Locatio Locatic	"m" factor (Horiz.) n Attac	0/D X X 1774	(Vertical)
(c) 11 R 10. Sta 11. Ins 12. Sa 13. Su 14. No	Bolts Wybolts	Mate penings: I e Outlets: kirt	No. Rial, No., Dis. Manholes: Handholes: Threaded: Number L	No.	Leg	Size Size Size Size Size Size Size Size	o, No. O	Inx. Pitch Locatio Locatio Locatio Locatio Locatic	"m" factor (Horiz.) n Attac	0/D X X 1774	(Vertical)
(c) 11 R 10. Sta 11. Ins 12. Sa 13. Su 14. No	Bolts Wybolts	Mate penings: I e Outlets: kirt	No. Rial, No., Dis. Manholes: Handholes: Threaded: Number L	No.	Leg	Size Size Size Size Size Size Size Size	o, No. O	Inx. Pitch Locatio Locatio Locatio Locatio Locatic	"m" factor (Horiz.) n Attac	0/D X X 1774	(Vertical)
(c) 11 R 10. Sta 11. Ins 12. Sa 13. Su 14. No	Bolts Wybolts	Mate penings: I e Outlets: kirt	No. Rial, No., Dis. Manholes: Handholes: Threaded: Number L	No.	Leg	Size Size Size Size Size Size Size Size	o, No. O	Inx. Pitch Locatio Locatio Locatio Locatio Locatic	"m" factor (Horiz.) n Attac	0/D X X 1774	(Vertical)
(c)	bolts bolts below between the pection of the pectio	Mate Mate penings: I Fe Outlets: kirt (Yea or Fe Sire)	No. Ital, No., Dis. Manholes: Handholes: Threaded: Number Material Material	No. No. Tr	Leg	Size Size Size Size No. Reinforcing R Width, Thickn	Other	Inx. Pitch Locatio Locatio Locatio Locatio Flance Rating	"m" factor (Horiz.) n Attac No. of Norrice	o/D X 1.74 hed Cov	Vertical) P. Rating or Thickness 21, 1974
(c) 11 R 10. Sta 11. Ins 12. Sa 13. Su 14. No & Ma	Bolts (ybolts pection O fety Valv pports: SI ozzles inholes	Mate penings: In the outlets: kirt (Yes or F. Sire)	No. Prial, No., Dis. Manholes: Handholes: Threaded: Number I. No.) Material MATERIAL MATERIAL MATERIAL	No. No. To Truncer Z Specifica	Leg	Size Size Size Size Size Size No. Reinforcing R Width, Thickn	Othe	Inx. Pitch Locatio Locatio Locatio Locatio Flange Rating	"m" factor (Horiz.) n Attac	Jan.	Vertical) Property Reting or Thickness 21, 1974

DATE

(Department use only)



ONTARIO
IDENTIFICATION NO. 5.298626
Item No. 2
OWNER'S NO. P.O. 673-3-3

MINISTRY OF LABOUR

BOILERS AND PRESSURE VESSELS

400 UNIVERSITY AVENUE TORONTO 2, ONTARIO

AFFIDAVIT of MANUFACTURER

Covering a Boiler or Pressure Vessel

Upon completion of Boiler or Pressure Vessel this form fully and correctly filled in and attested to must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under The Act governing the construction and installation of boilers and pressure vessels, otherwise the use of same may be prohibited or the working pressure severely penalized. SEND ONE COPY ONLY.

Manufactured by Brown					ntario.
Manufactured For Tre	ntham Cana	ada Limited	Calgary,	Alberta.	Acres and the
		(Name and Add	run of Purchaser or Complex	The stand for a set as less thanks.	
Illimate owner	Kocket	Industrie	S) me and Address)	Service Contraction	transmin state laborated
ocation and installation	Calga	ary, Albert	a.	order over a children i brown was animomistable con	
	Heat B	xchanger (This address is coerntial)	E-563-73	-3
ype of boiler or pressure vessel			Tale address is conential) Mir's Serial	No.	Company of the second of the s
anadian Registration No	B9334.	2		CAS-1412	g. 85.
o be used for: (Air, CO2, Prope	46.5	The state of the s			1 1 14 1
			A Property of the Control of the Con		1 13年15日 1841年 1947 1865日
Dia 4" IPS Overa	Il Length. 20	10 1/8" cu,	t. capacity	Heating surface	14
Vere test reports checked on all	plates used in the	labrication of this vi	YES	Programme and the second of th	
oes all material meet A.S.M.E.		No.	200	from our colored annual me	*** * * *** *** ****
			94900		reference of the contraction of
S.M.E., A.S.T.M. or other mat	1,500,000,000	100 miles 100 mi	Company of the Compan		Can the same server
welded or brazed, what paragra	aph of Code:	ASME SEC	r. VIII UW	L2c	
as vessel stress relieved? NC),.	and the second s	Washing worth	, NO	The married of the second
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1965年代11日の日本の大学を大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大	ELECTRIC CO.	1 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1035
re the following records on mfr's	files? X-ray film	a BO	Stress relieving procedu	ure NO	
ere the X-ray films examined ar	nd found to meet (Code requirements?		NO	
elders employed upon vessel.			The second second second second	ence on encountry of particle	
Name of welders and Province or State in which qualified	Identifying Symbol	Dates of last weld test	Ossilhed for welding under Code Para	Name of Impactor Repairling tests	National Beard No.
G. Clinansmith	BFT #4	5/1/73	Sect. IX	SG	
A. Mellor	<u>"</u> 6	22/1/74	11	JFT	
P. Forbes	" 8	26/3/73	"	SG	
F. Horst	" 10	110/0/110			

Does all welding on this vessel and the testing of coupons where required meet A.S.M.E. Code requirements? YES

		NAME OR P	ART	Hammer	4-1	Firmi test pel.	Manhaman working present pal.	Maximum operating temperature degrees F.
7.	Hydrostatic tests	Shell	辨	等条		1500	1000	650
	and	Tub	2000	214		1500	100	650
	working Pressures	8	*	7	And the second			
			- Table	- Parkey			89	1. h.

A SAFETY VALVES

Va. si	Maria Nema	Provincial Legistration No.	200	Panasa Panasa	Set to relieve 64 pm.	Pro carrier	Capacity This per beat
On I i	he						

FOR POWER AND HEATING BOILERS (on attached plate for cast iron)

TO SEE THE SECRET SECTION OF THE SEC

	ar proponucen uppe
STAMPING TO	BE REPRODUCED HERE
Canadian Registration number (Ontario)	C.R.N.
The state of the s	
National Board number (if manufactured in U.S.A.)	Nat. Bd
Manufacturer and manufacturers' serial number	Sr. No.
Ontario identification number	
Plate mir's initials, spec. no, and tensile strength	TS.
Maximum working pressure (for S. and W. if both)	Max. W.P. (Kerelyere Serval ple
Heating surface and year built	H.S. Ft.
Initials of authorized provincial shop inspector	100014.7.
UNFIRED PRESSURE VESSEL - STAMPIN	G TO BE REPRODUCED HERE
tanudian Registration number (Ontario)	C.R.N. B9334.2
National Board number (if manufactured in U.S.A.)	H.S.T. Maksat 72 E-563-73-3
Manufacturer and manufacturers' serial number BYOW	n Fintube Engineering Limited Sr No
Ontario identification number	5.298626
	U.S.S. SA53 GR B Ts 60000
Plate mir's initials, spec. no. and tensile strength	Shell 1000 Shell 650 Max. W.P. Tube 1000 Temp Tube 650
Maximum working pressure and temperature Thickness of shell and heads	1 75
	υ. <u>₩</u> 12c 31-1-74
Code paragraph number and year built	
Initials of authorized provincial shop inspector	JFT
10. I HEREBY DECLARE that the foregoing statements, ha	ving reference to Vessel bearing manufacturers' Serial No. E-563-73-3 Limited St. Thomas. Ontario
built by 17 Januar	y are in all respects correct and true, and that
year at the built is secondaries with the Prov	incial registered design C.K.N.
it complies fully with the A.S.M.E. Code regulations of the	Province of Installation under The Act governing the construction of brilers
and pressure vessels.	Signed Occuplas Ctuckenshaw
Sworn before me at St. Thomas Ontario	
in the Province (or State) of this 31alay of January 19.7.	For BRO WN FINTUBE ENGINEERING LIMITED,
	ST. THOMAS, Ontario.
A Commissioner of Ouths. February 24, 19 My commission expires February 24, 19	<u>75.</u>]
(in)	
CERTIFICATE	OF THE METECTION
1, the undersigned, a duly authorised inspector of Box	lers and Pressure Vecesia, employed by
Province.	served and that the material, construction and worksequable are in
accordance with the A.S.M.E. Code.	() I DO 6
Date 31.01.24	Profession Xustral Service Services

BOILERS AND PRESSURE VESSELS

400 UNIVERSITY AVENUE TORONTO 2, DITANIO

AFFIDAVIT OF MANUFACTURER

Covering a Boiler or Pressure Vessel

Upon completion of Boiler or Pressure Vessel this form fully and correctly filled in and attested to must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulathous under The Act governing the construction and installation of bollers and pressure vessels, otherwise the use of same may be prohibited or the working pressure severely penalized. SEND O

Manufactured by BCOVII 1	intube Eng	incering L	lmited, St	. Thomas, C	rtario.
Manufactured For Erentl	ian Canada	Limited,	Calgary, Al	certa.	
Ultimate owner.	A. Rec	(Name and Addre	of Purchaser or Consign		
5.7			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	estre an employees, some	1991 Levius
Location and installation	the second second second				
Type of boiler or pressure vessel		unger	Mir's Serial	Communication of Communication Communication (Communication)	AND REAL PROPERTY OF THE PROPE
Canadian Registration No.	B9334,2		Drwg. No	CAS-141	1
To be used for: (Air, CO2, Propa	one Ammonia Se-	m Hot Water stall	Sweet N	atural Gas/	Sweet Na
Dia. 4" IPS Over	all Length 2.1.1 - 1	1/8"	capacity	Heating surface	58
Were test reports checked on all	56.7	1924.33	The state of the s	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	- 1
Does all material meet A.S.M.E.		13. 1	- V 17	S	
A.S.M.E., A.S.T.M. or other ma	terial specification N	. The state of the		th 60000	phone there are a subsequent
If welded or brazed, what paragr	aph of Code:	ASME SE	CT. VIII UN	V12c	
Was vessel stress relieved?	No		Was vessel X-Rayed?	NO	Wilder - S - S - Company
Are the following records on mfr'	See take	MA		The displayer	All pik
the state of the s	affected on "アス・テートの日本の日本の日本では、一で 20mm	and the second s	Market Co.	g a normal to the same or the nut interrupting of the state of the	ONE COLUMN
Were the X-ray films examined a Welders employed upon vessel.	nd found to meet C	ode requirements?	**************************************	····	
	T 8%.		Qualified for	A. A. C.	9- 25 78-8
Name of welders and Province or State in which qualified	Identifying Symbol	Dates of last weld test	Para	Name of Inspector Supervising tests	National Board No.
W. Brown	BFT 2	18/1/73	Sect.IX	SG	
A. Mellor	" 6	22/1/74	11	JFT	
P. Forbes	" 8	26/3/73	11	SG	. 45
F. Horst	10	10/8/73	The state of the s	11	5,8

	NAME OF PART	Hammer instead	Place test	Manhous working pressure gal.	Maximum og tomperat degrees
7. Hydrostatic lests	Shel!		1500	1000	650
and	Tube	notes. I have	1500	1000	650
working Pressures					

Did the hydrostatic tests fully conform to Code requirements?......

SAFETY VALVES:-

	No. of Yaivas	Maher's I Mark or	Name, Trade Type No.	Provincial Revistration No.	Index Discount	Busi Diameter	But to relieve at pol.	Free discharge	Capacky Ro. per hear
On	Line		19039 19 2 1 2					~ 4	्र — स्वर्थिक व
				1 110	1 10	1117			

FOR POWER AND HEATING BOILERS (on attached plate for cast iron)

THE HERE

STAN	APING TO BE I	REPRODUCED HERE
		2.2.91625
Canadian Registration number	(Onteria)	C.R.N,
National Board number (if manufactured in U.S.	A.)	Nat. Bd. intil 1
The process was a second of the second of th		
Manufacturer and manufacturers' serial number		Sr. No.
Ontario identification number		
Plate mir's initials, spec. no. and tensile strength		TS. A. C.
	object of the second	
Maximum working pressure (for S. and W. if bot	φ) ,	Max. W.P.
Heating surface and year built		H.S Ft.
		The state of the s
Initials of authorized provincial shop inspector	and the first	A similar of the first proventing a figure of the style course
UNFIRED PRESSURE VESSEL -	- STAMPING TO	BE REPRODUCED HERE
		C.R.N. 39334.12
Canadian Registration number	(Ontario)	H.S.T.
National Board number (if manufactured in U.S.	A 1	и хоро 1158
Manufacturer and manufacturers serial number	Brown E	intube Engineering Limited Sc v.E-563-7
1)ntario identification number		5.298625
		U.S.S. & MANN. SA53 GR B TS 60000
Plate mir's initials, spec. no. and tensile strength		Plann. SADS GR B 75 00000
Maximum working pressure and temperature	in icate of	Max W.P. Tube 1000 Temp Tube 6
Thickness of shell and heads	Alter of the board of	r. Shell
Code paragraph number and year built		u. W12c 31-1-74
The state of the s	rie nerske sterke blevende.	the content considerable and the content of the con
Initials of authorized provincial shop inspector		
10. I HEREBY DECLARE that the foregoing s	statements, having refe	erence to Vezzel bearing manufacturers' Serial No. E-563-73-1-2
built by Brown Fintube Engir	neering Limi	teg st, Inomas, Uncario
and completed on the 31 day of the said Vessel has been built in accordance		1974 are in all respects correct and true, and that
it complies fully with the A.S.M.E. Code reg	ulations of the Provin	ce of Installation under The Act governing the construction of boilers
and pressure vessels.		
Sworn before me at. St. Th	nomas)	Signed. Weights Clean house
in the Province (or State) of Onta	ar ! o	
	. 19.74}	FOR BROWN FINTUBE ENGINEERING LIMITED,
A Colombiatorier of Outhors 300200000		ST. THOMAS, Ontario.
My commission expired Coruary	24 , 19/5,	
GFX:	TIFICATE OF S	HOP INSPECTION
I, the undersigned, a duly authorized las	pector of Bollers and I	Pressure Versels, employed by
		Ontario
do hereby certify that the foregoing state accordance with the A.S.M.E. Code.	tents are correct as	id that the material, construction and workmanship are in
31.01.24		
Date		Provinced or Northwest Board Inspender.

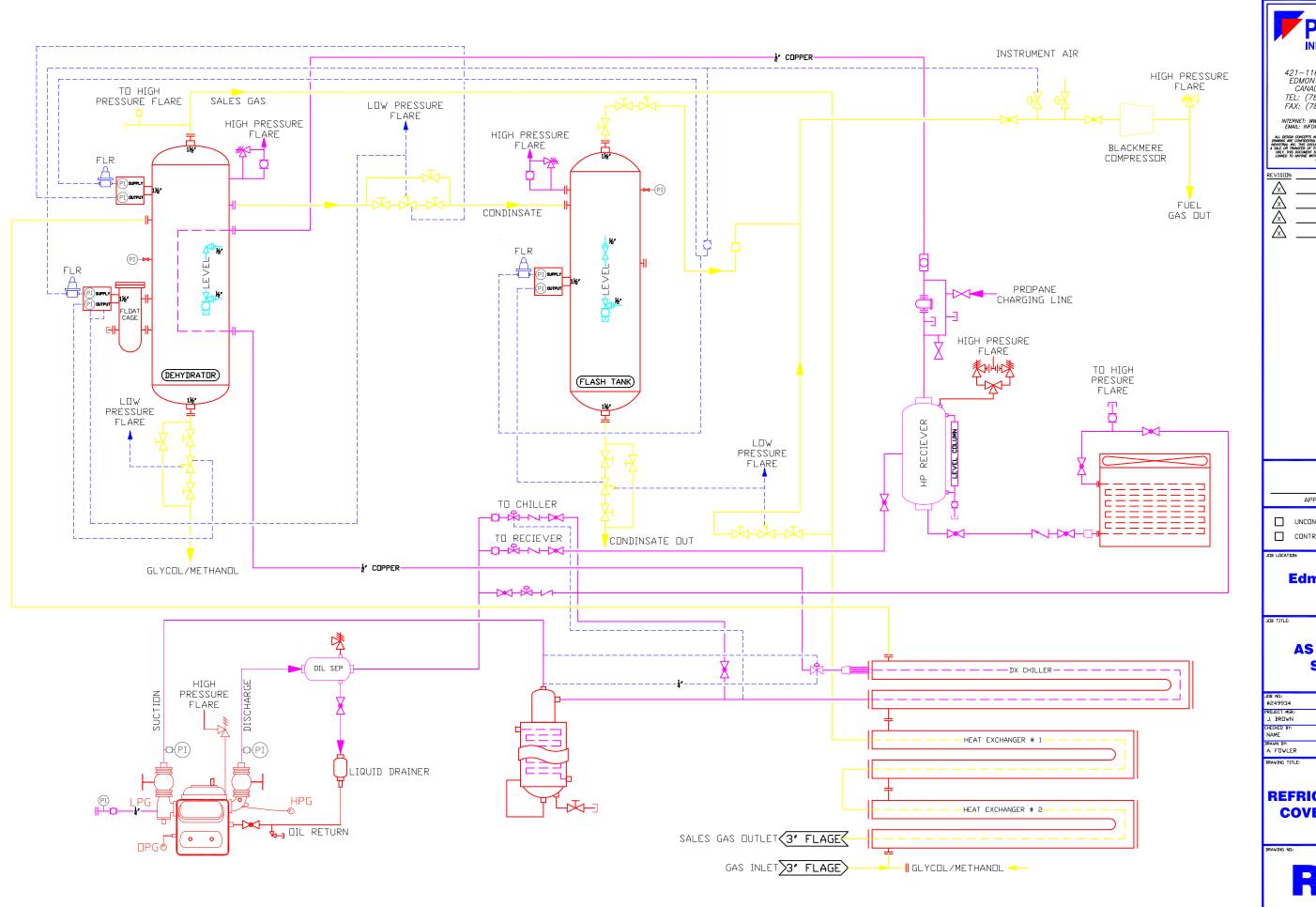
BROWN: FINTUBE ENGINEERING LTD. ST. THOMAS ONTARIO CANADA PATENTED CANADA	ORDER C.R.N. No. 7 Booken 9 TYP	SURFACE SQ.FT 58	S.R. TUSE YAND SAFRED TO SHELL TUSE * MAX. DESIGN PRESS FSIG! 1000	ANDESIGN TEMP F. C. 650 C. 650 C. 650 C. C. C. 650 C. C. C. 650 C. C. C. 650 C. C. C. C. C. 650 C. C. C. C

Marie .

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BROWN FINTUBE ENGÍNEERING LTD.
ST. THOMAS ONTARIO CANADA
AS NIE. SUMPRESS. PSIG. 1000
AS NIE. SUMPRESS. PSI





421-116 AVENUE N.W. EDMONTON, ALBERTA CANADA T6S 1G3 TEL: (780) 426-6336 FAX: (780) 464-4077

INTERNET: WWW.PACEINDUSTRIAL.COM
EMAIL: INFO@PACEINDUSTRIAL.COM
DESIGN CONCEPTS AND OTHER INFORMATION SHOWN ON TO

REVISION	DATE
\triangle	NONE
$\overline{\mathbb{A}}$	NONE
$\overline{\mathbb{A}}$	NONE
$\overline{\mathbb{A}}$	NONE

APPROVED BY

UNCONTROLLED COPY

CONTROLLED COPY #_

Edmonton, AB

AS BUILT SKID

JOB NO.:	DATE:
#249934	OCTOBER 10th, 2008
PROJECT MGR.:	SCALE:
J. BROWN	NTS
CHECKED BY:	DESIGNED BY:
NAME	PACE INDUSTRIAL
DRAWN BY: A. FOWLER	

REFRIGERATION COVER PAGE

R-3