

**9000 SERIES PORTABLE GAS COMPRESSOR**

**SERIAL NO.PE-5944**

**MANUFACTURED BY**

**JIRO MANUFACTURING LTD.**

**QUALITY CONTROL MANUAL**

**FOR**

**GULF CANADA RESOURCES LTD.**

**ERS90104**

**9000 SERIES PORTABLE GAS COMPRESSOR**

**GULF CANADA RESOURCES LTD.**

**MATERIAL LIST**

**ERS 90104**

**INLET SEPARATOR:** V-100-INLET SEPARATOR  
MAKE-PENFABCO  
CRN NO.H3189.213  
MAWP-275  
MIN TEMP-20 DEG F  
SERIAL NO.PE-5944  
(A)454212

**INLET GAS FILTER:** V-200-INLET GAS FILTER  
MAKE-NAFCO  
SIZE-4" 150  
MODEL NO.41030-M08D  
SERIAL NO.156-UM

**OIL COALESCING VESSEL:** V-300-OIL COALESCING VESSEL  
MAKE-PENFABCO  
CRN NO.L8012.2  
MAWP-360  
MAX TEMP- -20DEGF @ 360 DEG F  
SERIAL NO.PE-5973  
(A)4542

**FUEL SCRUBBER:** V-400-FUEL SCRUBBER  
MAKE-JIRO MANUFACTURING LTD.  
SERIAL NO.4HP-122

**SCREW COMPRESSOR:** C-500-SCREW COMPRESSOR  
MAKE-MYCOM  
MODEL NO. 160VLRD-222  
SERIAL NO.1642381

**9000 SERIES PORTABLE GAS COMPRESSOR**

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**ERS 90104**

<b>NATURAL GAS ENGINE:</b>	E-600-NATURAL GAS ENGINE MAKE-CATERPILLAR MODEL-3306 SERIAL NO.07Y07401
<b>HEATERS:</b>	H-700/H-800-HEATERS MAKE-CIS CAN SIZE-24" X 24" SERIAL NO.163496/163499
<b>PUMP:</b>	P-900-PUMP MAKE-COMMERICAL PUMP MODEL- P50C597BEYM25-43
<b>STARTER:</b>	MAKE-TDI MODEL-T301 SERIAL NO.0001317
<b>COOLER:</b>	MAKE-YOUNG RADIATOR COMPANY SERIAL NO.2795337
<b>RADIATOR:</b>	MODEL NO.FMR-1236-5-C SERIAL NO.2795337
<b>HEAT EXCHANGER:</b>	MAKE-ACOC MODEL NO.ACOC-2500-97374-CRN SERIAL NO.Z4251

**9000 SERIES PORTABLE GAS COMPRESSOR**

**GULF CANADA RESOURCES LTD.**

**MATERIAL LIST**

**ERS 90104**

**IGNITION SYSTEM:** 1-ALTRONIC PYROMETER SERIAL NO.1749  
1-ALTRONIC ANNUNCIATOR SERIAL NO.2305  
1-ALTRONIC ANNUNCIATOR POWER SUPPLY  
SERIAL NO.2001  
1-ALTRONIC CPU-95 IGNITION SYSTEM  
SERIAL NO.8145

**VALVES:** PC-100-PRESSURE CONTROLLER  
MAKE-FISHER  
TYPE-4150  
SERIAL NO.15586472  
PCV-100-PRESSURE CONTROL VALVE  
MAKE-FISHER V-BALL  
TYPE-1052  
SERIAL NO.7080570  
PCV-101-PRESSURE CONTROL VALVE  
MAKE-FISHER  
TYPE-128 PQC  
SERIAL NO.15509869  
LC-100-LEVEL CONTROLLER  
MAKE-FISHER  
TYPE-2680  
SERIAL NO.15471000

**9000 SERIES PORTABLE GAS COMPRESSOR**

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**MATERIAL LIST**

**ERS 90104**

**VALVES:**

PSV-100-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-75 PSI  
SERIAL NO.87244

PSV-300-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-300 PSI  
SERIAL NO.84332

PSV-400-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-50 PSI  
SERIAL NO.84805

PSV-500-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-285 PSI  
SERIAL NO.86702

LG-100-LEVEL GAUGE  
MAKE-3/4" RED LINE SIGHT GLASS

LG-300-LEVEL GAUGE  
MAKE-PENBERTHY  
SERIES-1RL-7

**9000 SERIES PORTABLE GAS COMPRESSOR**

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**MATERIAL LIST**

**ERS 90104**

**VALVES:**

LG-600-LEVEL GAUGE  
MAKE-KENKO  
SERIES-LCE-12

PCV-102/103-PRESSURE CONTROL VALVES  
MAKE-FISHER  
TYPE-67 CFR

PCV-400/402-PRESSURE CONTROL VALVE  
MAKE-FISHER  
TYPE-627  
SET PR-5-30 PSI

PCV-401/600/601-PRESSURE CONTROL VALVES  
MAKE-FISHER  
TYPE-627  
SET PR-15-40 PSI

PCV-401-PRESSURE CONTROL VALVE  
MAKE-FISHER  
TYPE-S302

PCV-700/800-PRESSURE CONTROL VALVE  
MAKE-FISHER  
TYPE-912

LSH-100-LEVEL SWITCH HIGH  
MAKE-MURPHY  
TYPE-L1200

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**ERS 90104**

**VALVES:**

VS-600-VIBRATION SWITCH  
MAKE-MURPHY  
TYPE-VS-2

DPS-100-DIFFERENTIAL PRESSURE SWITCH  
MAKE-TELEMATIC CONTROLS  
TYPE-CUSTOM CONTROL SENSOR  
SERIAL NO.

BPCV-300-BACK PRESSURE CONTROL VALVE  
MAKE-KIMRAY  
SIZE-2" 300  
SERIAL NO.2000750403

TC-600/601-TEMPERATURE CONTROLLERS  
MAKE-KIMRAY  
TYPE-T-12

FV-600-FUEL VALVE  
MAKE-MURPHY  
TYPE-M5081-C

UY-500-SWITCHING VALVE  
MAKE-AMOT  
SERIAL NO.18621

1-4057 AMOT LATCH SERIAL NO.33621

1-4" 300 FP NUTRON BALL VALVE  
SERIAL NO.6013-11

**9000 SERIES PORTABLE GAS COMPRESSOR**

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**MATERIAL LIST**

**ERS 90104**

**VALVES:**

1-ROOTS METER  
SERIAL NO.0022103

1-4" 150 STD CROWN CHECK VALVE  
SERIAL NO.85903-16

2-3" 300 STD CROWN CHECK VALVES  
SERIAL NO.87587-36/87587-42

1-2" 300 STD CROWN CHECK VALVES SERIAL NO.  
88248-38

1-2" THRD DUCTILE IRON CHECK VALVE  
SERIAL NO.86803-151

2-1 ½" THRD MAS BALL VALVES 2000

1-1 ½" THRD WHEATLEY CHECK VALVE

1-1" 800 CLASS GLOBE VALVE

1-1G1G CUNO FILTER

2-N7B SIGHT GLASS VALVES

2-N7A SIGHT GLASS VALVES

11-1" THRD MAS BALL VALVES 3000

3-1" MAS G2 THRD BALL VALVES 3000



**9000 SERIES PORTABLE GAS COMPRESSOR**

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<b>VALVES:</b>	1-1" Y-STRAINER
	1-1" THRD DUCTILE IRON CHECK VALVE
	1-1/2" AGCO CS NEEDLE VALVE
	1-1/2" THRD DYNA QUIP BALL VALVES 2000
	2-1/2" THRD MAS BALL VALVES 3000
	1-1/2" SS TUBING CHECK
	1-3/8" SS TUBING CHECK
	1-1/4" SS TUBING CHECK
	2-1/4" SS TUBING VALVES
	2-1/4" H5SUKS SS MINI NEEDLE VALVES
<b>GAUGES:</b>	DPG-DIFERENTIAL PRESSURE GUAGE MAKE-MID WEST SET-0-50 PSI SERIAL NO.329161 / 329249
	CLG-600-COOLANT LEVEL GAUGE MAKE-MURPHY TYPE-EL150K1
	PI-100/400/500/501-PRESSURE INDICATORS MAKE-WESTERN GAUGE LF GAUGE SET-0-400 PSI

**9000 SERIES PORTABLE GAS COMPRESSOR**

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**MATERIAL LIST**

**ERS 90104**

**GAUGES:**

PI-101/102/401-PRESSURE INDICATORS  
MAKE-WESTERN GAUGE LF GAUGE  
SET-0-60 PSI

PI-400-PRESSURE INDICATOR  
MAKE-WESTERN GAUGE LF GAUGE  
SET-0-200 PSI

TI-300/502-TEMPERATURE INDICATOR  
MAKE-MARSH  
-40-160 DEG F

## 9000 SERIES PORTABLE GAS COMPRESSOR

### GULF CANADA RESOURCES LTD.

#### MATERIAL LIST

#### 3E.R.S.90104

QTY:	DESCRIPTION:	GRADE:	HEAT NO:
3	4" 300 SCH 40 RF WN FLANGES	SA-105	14209B
8	4" 150 SCH 40 RF WN FLANGES	SA-105	36839
6	4" SCH 40 90 DEG WELD ELLS	WPB	124107/ 9J6517 98C0007
2	4" X 3" SCH 40 CONCENTRIC REDUCER	WPB	98A2013
1	4" X 2" SCH 40 RED TEE	WPB	8B0743
1	3" COMPANION FLANGE	SA-105	
17	3" 300 SCH 40 RF WN FLANGES	A-105	249AS/14209/ 204AT/225AT/
3	3" 150 SCH 40 RF WN FLANGES	A-105	33852
11	3" SCH 40 90 DEG WELD ELLS	WPB	99B007
1	3" SCH 40 WELD TEE	WPB	89509
2	3" X 2" SCH 40 CONCENTRIC REDUCER	WPB	459A
1	3" X 2" SCH 40 SWAGE BLE X TSE	A-106	UJZ
1	3" X 2 1/2" SCH 40 RED TEE	WPB	89509
1	3" X 2 1/2" SCH 40 CONCENTRIC REDUCER	WPB	7157
1	2 1/2" 150 SCH 40 RF WN FLANGES	A-105	H74242R
1	2 1/2" SCH 40 90 DEG WELD ELL	WPB	9F0372
2	2" 300 SCH 40 RF WN FLANGES	A-105	221AT
1	2" 150 SCH 40 RF WN FLANGE	A-105	
1	2" SCH 40 90 DEG WELD ELLS	WPB	9890021
1	2" SCH 40 WELD TEE	WPB	9861041
1	2" X 1 1/2" SCH 40 CONCENTRIC REDUCER	WPB	9950008
3	2" FS THRD UNIONS 3000	A-105	02
8	2" FS THRD 90 DEG ELLS 2000	A-105	12AV

## 9000 SERIES PORTABLE GAS COMPRESSOR

### GULF CANADA RESOURCES LTD.

#### MATERIAL TAKEOFF

#### E.R.S.90104

<b>QTY:</b>	<b>DESCRIPTION:</b>	<b>GRADE:</b>	<b>HEAT NO:</b>
1	2" FS THRD TEES 2000	A-105	76148
1	1 1/2" 300 SCH 40 RF WN FLANGE	A-105	H170
1	1 1/2" FS THRD 45 DEG ELL 2000	A-105	38237
10	1 1/2" FS THRD 90 DEG ELLS 2000	A-105	Z34
8	1 1/2" FS THRD UNIONS 3000	A-105	Z12
4	1 1/2" FS THRD TEES 2000	A-105	Z44
6	1" FS THREAD-O-LETS 3000	A-105	AZG/AZY
2	1" FS ELBOW-O-LET 3000	A-105	AZY
2	1" X 3/4" XH SWAGE TBE	A-106	K348
3	1" FS THRD 45 DEG ELLS 2000	A-105	334AS
38	1" FS THRD 90 DEG ELLS 2000	A-105	Z37
12	1" FS THRD TEES 2000	A-105	55185
20	1" FS THRD UNIONS 3000	A-105	C32
1	1" X 1/4" XH SWAGE TBE	A-106	
1	1" FS THRD FULL COLLAR 3000	A-105	1261
2	3/4" FS THREAD-O-LETS 3000	A-105	AZY
10	1/2" FS THREAD-O-LETS 3000	A-105	38399/ 87721/A3H
3	1/2" FS ELBOW-O-LETS 3000	A-105	AZY
2	1/2" FS THRD CROSSES 3M	A-105	C32
2	1/4" FS THRD TEE 2000	A-105	78T
3	1/4" FS THRD 90 DEG ELLS 2000	A-105	G1
	4" SCH 40 SMLS PIPE	SA-106	4E

**9000 SERIES PORTABLE GAS COMPRESSOR**

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**MATERIAL TAKEOFF**

**E.R.S.90104**

<b>QTY:</b>	<b>DESCRIPTION:</b>	<b>GRADE:</b>	<b>HEAT NO:</b>
	3" SCH 40 SMLS PIPE	A-106	9882W
	2 ½" SCH 80 SMLS PIPE	A-106	0858W
	2" SCH 40 SMLS PIPE	A-106	2A
	2" SCH 80 SMLS PIPE	A-106	36305

FITTINGS 4HP- & 2LP



JIRO Manufacturing Ltd.  
P.O. Box 1450, 5221 - 46th Street, Stettler, AB T0C 2L0  
Phone (403) 742-5538 Fax (403) 742-5539  
Website: www.enhancedenergy.com www.jiromfg.com

CANADIAN  
VENTURE  
EXCHANGE

### ***CERTIFICATE OF COMPLIANCE***

I hereby certify that the registered pressure fitting 4 inch Drip Pot,  
CRN #013799.231, Unit #4HP-122 has been designed, constructed  
and pressure tested in accordance with ASME Sec. VIII Division 1, and the Alberta  
Safety Codes Act. It has also been registered in British Columbia and Saskatchewan  
through an interprovincial reciprocating agreement.

P. Weldee  
(Quality Control Manager)

May 30, 2000  
(Date)



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CANADIAN  
VENTURE  
EXCHANGE

### ***CERTIFICATE OF COMPLIANCE***

I hereby certify that the registered pressure fitting 2 inch Drip Pot,  
CRN # 043945231, Unit # 2HP-90 has been designed, constructed  
and pressure tested in accordance with ASME Sec. VIII Division 1, and the Alberta  
Safety Codes Act. It has also been registered in British Columbia and Saskatchewan  
through an interprovincial reciprocating agreement.

P. Wilkie  
(Quality Control Manager)

May 30, 2000  
(Date)



JIRO Manufacturing Ltd.  
 P.O. Box 1450, 5221 - 46th Street, Stettler, AB T0C 2L0  
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CANADIAN  
 VENTURE  
 EXCHANGE

**SECTION XXII**

**EXHIBIT 19**

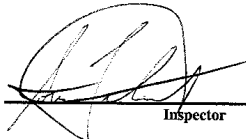
**PAGE 22.21**

**COMPRESSOR PNEUMATIC CHECKLIST**

**Unit Number** 96104  
**Date** MAY 11 2000  
**MAWP** 20, 50, 80, 300 Psi  
**Test Pressure** 22, 55, 88, 330 Psi  
**Inspector** SEAN Z

Check all flanges and pipe ends for tightness	OK
Pressure up to 25 Psi. Check for leaks on all piping. If leaks are detected dump pressure to 0 and fix leaks. When there are no further leaks detected proceed to next step.	OK
Close V-Ball	OK
Increase pressure in 50 Psi increments with 10 minute hold times between pressure increases to MAWP	OK
Final Check for leaks	OK
Pressure up to test pressure and hold for 10 minutes. Drop pressure back down to MAWP and recheck for leaks.	OK
Test complete	OK

The following test was completed and certified in accordance with ASME B31.3, ABSA, Jiro Manufacturing Ltd., and the Alberta Safety Codes Act and Regulations requirements.

  
 \_\_\_\_\_  
 Inspector

MAY 11 2000  
 \_\_\_\_\_  
 (Date)

EDITION: 1  
 REVISION: 4  
 DATE: MAY 8, 2000





### CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

Field Construction   
Shop Construction

- Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
- Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
- Constructed For: Gulf Canada Resources Ltd. 401-9<sup>th</sup> Ave S.W. Calgary, Alberta Job No: 90104  
(Name and Address)
- Owner: Gulf Canada Resources Ltd.  
(Name and Location of Installation)
- Piping Design Provincial Registration No.: N/A
- Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1 (1803.2)
- Code: ASME B31.1  B31.3  B31.5

Drg. No. and Line No.	Process (Air/Stm. Etc.)	Des. Press. kPa	Des. Temp. °C	Test Press.	Test Medium	Mat'l Spec. & Grade	Pipe Dia. & Sch.	Flange Prim. Rating	H.T./Preheat Temp.	R.T. %	Other NDE
DR-1001-1-A	GAS	552 KPA	38C	607KPA	AIR	SA-106	1"	2000 PSI	N/A	N/A	N/A
DR-1002-1-A	GAS	552 KPA	38C	607KPA	AIR	SA-105	1"	2000 PSI	N/A	N/A	N/A
DR-1003-1-A	GAS	552 KPA	38C	607KPA	AIR	SA-234-WPB	1"	2000 PSI	N/A	N/A	N/A
DR-1004-1-A	GAS	552 KPA	38C	607KPA	AIR		1"	2000 PSI	N/A	N/A	N/A

Shop Constructed Data Reports have been attached for the following items which form part of above piping system(s)

Drg. No.	Line No.	Spool No.	Fabricator

#### CERTIFICATE OF COMPLIANCE

We certify the statements in this Data Report to be correct and that piping 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 16,2000 Jiro Mfg. Ltd. by Crystal Love  
Contractor Authorized Representative

#### CERTIFICATE OF INSPECTION

I, the undersigned, employed by \_\_\_\_\_ have inspected the piping 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 \_\_\_\_\_

\_\_\_\_\_  
Owner's/Client's Inspector Safety Codes Officer

(BOILER EXTERNAL PIPING ONLY)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.



### CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

Field Construction   
Shop Construction

- Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
- Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
- Constructed For: Gulf Canada Resources Ltd. 401-9<sup>th</sup> Ave. S.W.Calgary, Alb. Job No: 90104  
(Name and Address)
- Owner: Gulf Canada Resources Ltd. 401-9th Ave. S.W.Calgary, Alb.  
(Name and Location of Installation)
- Piping Design Provincial Registration No.: N/A
- Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1/JML-3 (1803.2)
- Code: ASME B31.1  B31.3  B31.5

Drq. No. and Line No.	Process (Air/Stm. Etc.)	Des. Press. kPa	Des. Temp. °C	Test Press.	Test Medium	Mat'l Spec. & Grade	Pipe Dia. & Sch.	Flange Prim. Rating	H.T./Preheat Temp.	R.T. %	Other NDE
BP-1002-1-A	GAS	1896KPA	38C	2085KPA	AIR	SA-106	1"	2000	N/A	N/A	N/A
PL-1001-1-A	GAS	1896KPA	38C	2085KPA	AIR	SA-105	1"	2000	N/A	N/A	N/A
SG-1001-1-A	GAS	1896KPA	38C	2085KPA	AIR	SA234WPB	1"	2000	N/A	N/A	N/A
P-1001-3-B	GAS	1896KPA	38C	2085KPA	AIR		2" & 3"	300 ANSI	N/A	10%	N/A
BP-1001-2-B	GAS	1896KPA	38C	2085KPA	AIR		2"	300 ANSI	N/A	10%	N/A

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#### CERTIFICATE OF COMPLIANCE

We certify the statements in this Data Report to be correct and that piping 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 15, 2000 Jiro Mfg. Ltd. Contractor by Crystal Love Authorised Representative

#### CERTIFICATE OF INSPECTION

I, the undersigned, employed by \_\_\_\_\_ have inspected the piping 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 \_\_\_\_\_

\_\_\_\_\_  
Owner's/Client's Inspector Safety Codes Officer

(BOILER EXTERNAL PIPING ONLY)

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### CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

Field Construction   
Shop Construction

- Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
- Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
- Constructed For: Gulf Canada Resources Ltd. 401-9th Ave. S.W.Calgary, Alb. Job No: 90104  
(Name and Address)
- Owner: Gulf Canada Resources Ltd. 401-9th Ave. S.W.Calgary, Alb.  
(Name and Location of Installation)
- Piping Design Provincial Registration No.: N/A
- Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1/JML-3 (1803.2)
- Code: ASME B31.1  B31.3  B31.5

Drg. No. and Line No.	Process (Air/Stm. Etc.)	Des. Press. kPa	Des. Temp. °C	Test Press.	Test Medium	Mat'l Spec. & Grade	Pipe Dia. & Sch.	Flange Prim. Rating	H.T./Preheat Temp.	R.T. %	Other NDE
O-1002-1.5-A	LUBE OIL	1896KPA	120C	2085KPA	AIR	SA-105	1.5"	2000	N/A	N/A	N/A
O-1003-1.5-A	LUBE OIL	1896KPA	120C	2085KPA	AIR	SA-106	1.5"	2000	N/A	N/A	N/A
O-1004-1.5-A	LUBE OIL	1896KPA	120C	2085KPA	AIR	SA234WPB	1.5"&1"	2000	N/A	N/A	N/A
O-1001-1.5-A	LUBE OIL	1896KPA	120C	2085KPA	AIR		1.5"	2000	N/A	N/A	N/A
P-1004-2-B	GAS/OIL	1896KPA	120C	2085KPA	AIR		2"	300 ANSI	N/A	10%	N/A

Shop Constructed Data Reports have been attached for the following items which form part of above piping system(s)

Drg. No.	Line No:	Spool No.	Fabricator

#### CERTIFICATE OF COMPLIANCE

We certify the statements in this Data Report to be correct and that piping 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 16, 2000 Jiro Mfg Ltd. by *Crystal Love*  
Contractor Authorised Representative

#### CERTIFICATE OF INSPECTION

I, the undersigned, employed by \_\_\_\_\_ have inspected the piping 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 \_\_\_\_\_

\_\_\_\_\_  
Owner's/Client's Inspector Safety Codes Officer  
(BOILER EXTERNAL PIPING ONLY)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.



### CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

Field Construction   
Shop Construction

- Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
- Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
- Constructed For: Gulf Canada Resources Ltd. 401-9th Ave. S.W.Calgary, Alb. Job No: 90104  
(Name and Address)
- Owner: Gulf Canada Resources Ltd. 401-9th Ave. S.W.Calgary, Alb.  
(Name and Location of Installation)
- Piping Design Provincial Registration No.: N/A
- Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1 (1803.2)
- Code: ASME B31.1  B31.3  B31.5

Drg. No. and Line No.	Process (Air/Stm. Etc.)	Des. Press. kPa	Des. Temp. °C	Test Press.	Test Medium	Mat'l Spec. & Grade	Pipe Dia. & Sch.	Flange Prim. Rating	H.T./Preheat Temp.	R.T. %	Other NDE
P-1002-2-A	GAS	552KPA	38C	607KPA	AIR	SA-105	3" & 2"	300/150	N/A	10%	N/A
P-1003-3-A	GAS	552KPA	38C	607KPA	AIR	SA-106	3"	ANSI	N/A	10%	N/A
P-1005-2-B	GAS	1896KPA	120C	2085KPA	AIR	SA-234WPB	2"	300 ANSI	N/A	10%	N/A
P-1006-2-B	GAS	1896KPA	120C	2085KPA	AIR		2"	300 ANSI	N/A	10%	N/A
					AIR				N/A	N/A	N/A

Shop Constructed Data Reports have been attached for the following items which form part of above piping system(s)

Drg. No.	Line No.	Spool No.	Fabricator

#### CERTIFICATE OF COMPLIANCE

We certify the statements in this Data Report to be correct and that piping 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 16, 2000 Jiro Mfg. Ltd. Contractor by C. Love Authorized Representative

#### CERTIFICATE OF INSPECTION

I, the undersigned, employed by \_\_\_\_\_ have inspected the piping 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 \_\_\_\_\_

\_\_\_\_\_  
Owner's/Client's Inspector Safety Codes Officer

(BOILER EXTERNAL PIPING ONLY)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.



### CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

Field Construction   
Shop Construction

- Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
- Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
- Constructed For: Gulf Canada Resources Ltd. 401-9th Ave. S.W.Calgary, Alb. Job No: 90104  
(Name and Address)
- Owner: Gulf Canada Resources Ltd. 401-9th Ave. S.W.Calgary, Alb.  
(Name and Location of Installation)
- Piping Design Provincial Registration No.: N/A
- Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1/JML-3 (1803.2)
- Code: ASME B31.1  B31.3  B31.5

Drg. No. and Line No.	Process (Air/Stm. Etc.)	Des. Press. kPa	Des. Temp. °C	Test Press.	Test Medium	Mat'l Spec. & Grade	Pipe Dia. & Sch.	Flange Prim. Rating	H.T./Preheat Temp.	R.T. %	Other NDE
FG-1001-1-A	GAS	345KPA	38C	379KPA	AIR	SA-105	1"	2000	N/A	N/A	N/A
FG-1002-1-A	GAS	138KPA	38C	152KPA	AIR	SA-106	1"	2000	N/A	N/A	N/A
SG-1002-1-A	GAS	345KPA	38C	379KPA	AIR		1"	2000	N/A	N/A	N/A

Shop Constructed Data Reports have been attached for the following items which form part of above piping system(s)

Drg. No.	Line No.	Spool No.	Fabricator

#### CERTIFICATE OF COMPLIANCE

We certify the statements in this Data Report to be correct and that piping 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 16,2000 Jiro Mfg. Ltd. by Crystal Love  
Contractor Authorised Representative

#### CERTIFICATE OF INSPECTION

I, the undersigned, employed by \_\_\_\_\_ have inspected the piping 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 \_\_\_\_\_

\_\_\_\_\_  
Owner's/Client's Inspector Safety Codes Officer

(BOILER EXTERNAL PIPING ONLY)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.



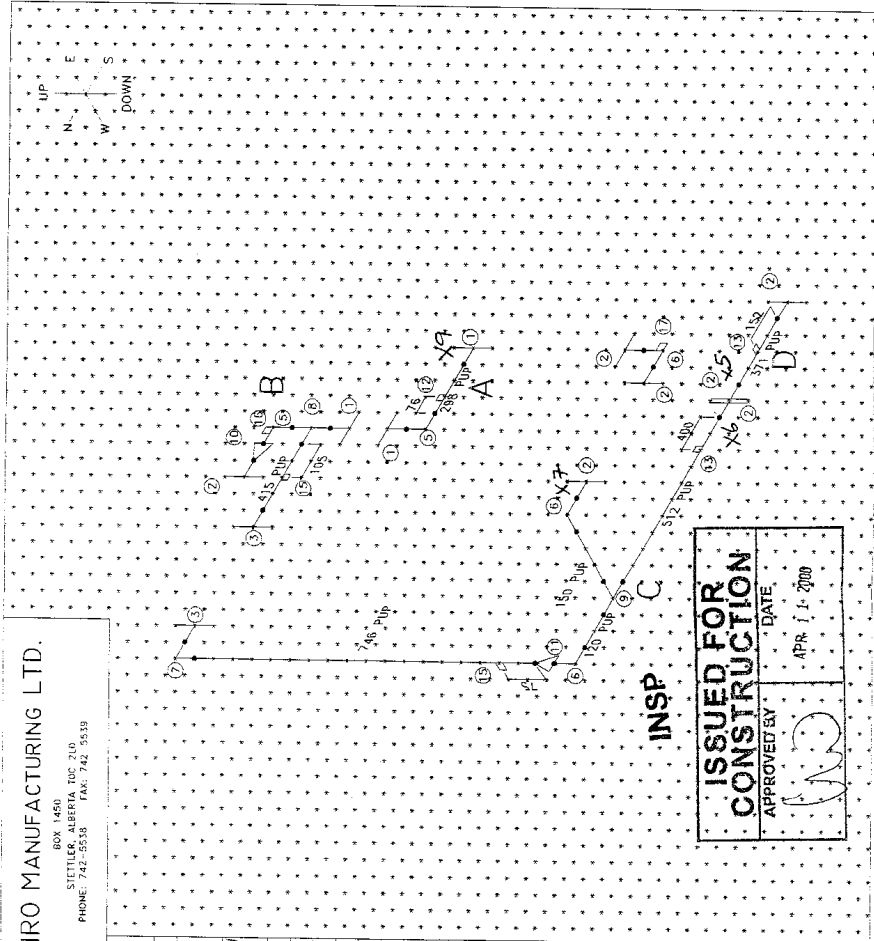


**JIRO MANUFACTURING LTD.**

BOX 1400  
STETTIN, ALBERTA, CAN. T0G 2J0  
PHONE: 742-5538 FAX: 742-5539

**FITTINGS, FLANGES & PIPE**

ITEM	QTY.	SIZE	DESCRIPTION	MAT.	M.T.R. NO.
①	3	4"	SCH 40 300# REWN FLG	A-105	14209
②	7	3"	SCH 40 300# REWN FLG	A-105	249AS
③	2	2"	SCH 40 300# REWN FLG	A-105	221AT
④					
⑤	2	4"	SCH 40 90° ELL	WPB	998517/12410
⑥	3	3"	SCH 40 90° ELL	WPB	9980009
⑦	1	2"	SCH 40 90° ELL	WPB	9890003
⑧	1	4"x2"	SCH 40 RED TEE	WPB	840743
⑨	1	3"	SCH 40 TEE	WPB	89555
⑩	1	4"x3"	SCH 40 CON RED	WPB	9818013
⑪	1	3"x2"	SCH 40 CON RED	WPB	459A
⑫	1	1/2"on4"	3000# TOL	A-105	38377
⑬	2	1"on3"	3000# TOL	A-105	2337
⑭					
⑮	2	1"on2"	3000# TOL	A-105	100505
⑯	1	1/2"on4"	3000# ELBOLET	A-105	1124
⑰	1	1"on3"	3000# ELBOLET	A-105	AE4
PIPE	4"		SCH 40 SMLS	A-106B	HE-40
PIPE	3"		SCH 40 SMLS	A-106B	3D-40
PIPE	2"		SCH 40 SMLS	A-106B	2A-40
2	Sets Of	4"	300# SNG	B7	
2	Sets Of	3"	300# SNG	B7	
2	Sets Of	2"	300# SNG	B7	
X-RAY	10%		MAT. SPEC/GRAGE	DESIGN TEMP.	NO
INSULATION			A-105/A-106B	100°	
STRESS RELIEF				DESIGN PRES.	
TEST PRES.				720 PSI	
INTERNAL NO			COATED	SWEET	
JOB NO.	90104				
DRAWING NO.	J-202-02				
LINE NO.					
DESIGNED BY	J.A. MARKUSSON				
CHECKED BY	[Signature]				
APPROVED BY	[Signature]				
DATE	00-01-21				
REVISION	0				
DATE OF REVISION					



**ISSUED FOR CONSTRUCTION**

APPROVED BY: [Signature] DATE: APR 11 2000

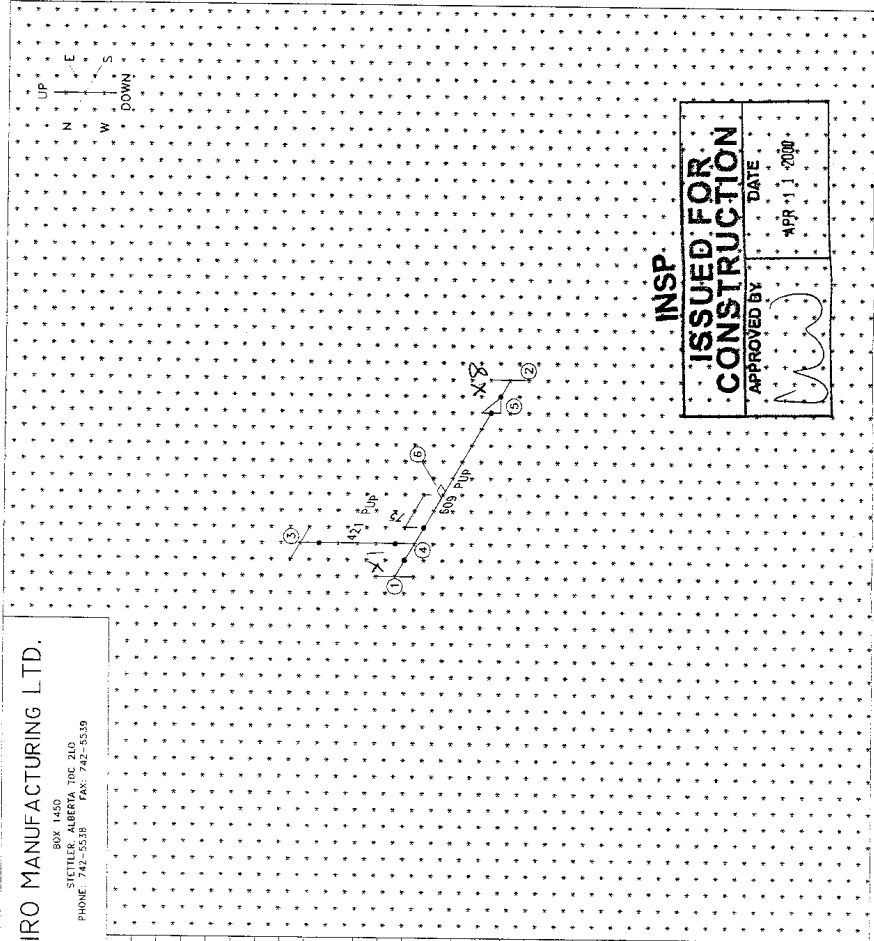


**JIRO MANUFACTURING LTD.**

BOX 1450  
STETTIN, ALBERTA T0C 2L0  
PHONE: 742-5538 FAX: 742-5539

**FITTINGS, FLANGES & PIPE**

ITEM	QTY.	SIZE	DESCRIPTION	MAT.	M.T.R. NO.
①	1	4"	SCH 40 150# REWN FLG	A-105	36839
②	1	3"	SCH 40 300# REWN FLG	A-105	885AT
③	1	2"	SCH 40 150# REWN FLG	A-105	70093
④	1	4"x2"	SCH 40 RED TEE	A-105	880443
⑤	1	4"x3"	SCH 40 CON RED	WP8	83214
⑥	1	1" on 4"	3000# TOL	A-105	AZY
PIPE	4"		SCH 40 SMLS	A-105B	4E-40
PIPE	2"		SCH 40 SMLS	A-105B	2A-40
1	Set Of	4"	150# SNG	B7	
1	Set Of	3"	300# SNG + 5"	B7	
1	Set Of	3"	150# SNG	B7	
1	Set Of	2"	150# SNG	B7	
X-RAY	10%		MAT. SPEC/GRADE	DESIGN TEMP.	NO
INSULATION			A-105/A-105B	100°	
STRESS RELIEF			NO	DESIGN PRES.	
TEST PRES.	427 psi		INTERNAL	285 psi	
			NO COATED	SWEET	
JOB NO.	90104				
DRAWING NO.	J-202-03				
LINE NO.					
DESIGNED/DRAWN BY:	J.A. MARKUSSON				
DATE:	APR 11 2008				
SCALE:	1:1				
WPS:	JML-1				
REVISION:	0				
DATE OF REVISION:					



**INSP.**  
**ISSUED FOR CONSTRUCTION**  
APPROVED BY: *[Signature]*  
DATE: APR 11 2008















FROM : MERCER VALVE CANADA

PHONE NO. : 7804663190

Mar. 21 2000 02:54PM P2



**SALES**  
(800) 833-6402  
(405) 495-6533  
(405) 495-6536

**ACCOUNTING**  
(405) 495-7178

**MERCER VALVE COMPANY, INC.**

Post Office Box 270970  
Oklahoma City, Oklahoma 73137  
FAX # (405) 495-8728

24-HOUR SERVICE AVAILABLE

WEBSITE: www.mercervalvecompanyinc.com - E-MAIL: mvsales1@ionet.net

**PURCHASING**  
(405) 789-2994  
(405) 789-0664

**ENGINEERING**  
(405) 495-3274

CERTIFICATE OF COMPLIANCE

NACE STANDARD MR-01-75-90

DATE MARCH 8, 2000

CUSTOMER MERCER VALVE CANADA

SELLER MERCER VALVE COMPANY, INC.

ADDRESS 8717 - 53RD AVENUE, EDMONTON, AB. T6C3H3

ITEM QTY (10) MERCER P/N 91-38G111713N 1 1/2-300#RF X 2 1/2-150#RF  
9100 SERIES SAFETY RELIEF VALVE

SET @ 300 PSI S/N. 84332

SALES ORDER NUMBER 405230

JOB ORDER NUMBER 405230

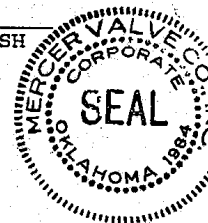
CUSTOMER P.O. NUMBER E5361

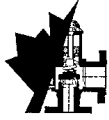
This is to certify to you that the valves that were purchased on the above order number were built per Section VIII Division I of the ASME Boiler and Pressure Vessel Code and conform to NACE Standard MR-01-75-90.

NOTE:

DEVIATIONS:

*David Bush*  
BRIAN BARTON OR DAVID BUSH  
ENGINEERING





# MERCER VALVE CANADA

STRO

TEST REPORT - PSV 1294

DATE April 25/00 WO# ms657 S/N 84805  
 MERCER - TYPE 9117DS11803E SIZE 1x/M/ENPT  
 SET PRESSURE 30 BP      COLD / DIFF SET       
 TEMPERATURE (90 F) CAPACITY 87 SPRING RANGE 22-30  
 MAX TEMP. (400 F) MANUFACTURES DATE 03-00  
 RESET PRESSURE 80 NEW CAPACITY RATING 188 SCFM.

### PARTS REPLACED

OUT OF STOCK INTO STOCK

<u>05-006</u>	<u>05-003</u>
_____	_____
_____	_____

SPRING NUMBER 05-006

NEW PART NUMBER 9117DS11806E

### FINAL SETTING DATA

SET PRESSURE: 81 RESEAT PRESSURE: 61

SIMMER: 80 LEAKAGE: 0 BPM

TEST MEDIA: AIR CODE SECTION: VIII BP TEST: 60 psibow

### COMMENTS:

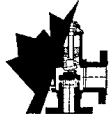
VALVE SERVICED BY: [Signature]

VALVE TESTED BY: [Signature]

CUSTOMER APPROVAL: [Signature] (IF APPROPRIATE)

WITNESS: [Signature] (INDEPENDENT)





JIRO

# MERCER VALVE CANADA

TEST REPORT - PSV 1263

DATE April 24/02 WO# M5619 S/N 86702  
 MERCER - TYPE 91170511809E SIZE 1x / m / FNPT  
 SET PRESSURE 285 BP \_\_\_\_\_ COLD / DIFF SET \_\_\_\_\_  
 TEMPERATURE  70°F  CAPACITY 601 SPRING RANGE 230-400  
 MAX TEMP.  400°F  MANUFACTURES DATE 04-00  
 RESET PRESSURE \_\_\_\_\_ NEW CAPACITY RATING \_\_\_\_\_

### PARTS REPLACED

OUT OF STOCK INTO STOCK

_____	_____
_____	_____
_____	_____

SPRING NUMBER \_\_\_\_\_

NEW PART NUMBER \_\_\_\_\_

### FINAL SETTING DATA

SET PRESSURE: 286 RESEAT PRESSURE: 201

SIMMER: 278 LEAKAGE: 0 BPM

TEST MEDIA: AIR CODE SECTION: VIII BP TEST: 120 psi lower

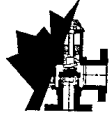
### COMMENTS:

VALVE SERVICED BY: \_\_\_\_\_

VALVE TESTED BY: [Signature]

CUSTOMER APPROVAL: [Signature] (IF APPROPRIATE)

WITNESS: [Signature] (INDEPENDENT)



# MERCER VALVE CANADA <sup>SIRO</sup>

TEST REPORT - PSV 1326

DATE May 3/08 WO# M5677 S/N 87244  
 MERCER - TYPE 9117DS11805E SIZE 1x/m/FWPT  
 SET PRESSURE 50 BP — COLD / DIFF SET —  
 TEMPERATURE 70 F CAPACITY 128 SPRING RANGE 40 - 75  
 MAX TEMP. 400 F MANUFACTURES DATE 04-00  
 RESET PRESSURE \_\_\_\_\_ NEW CAPACITY RATING \_\_\_\_\_

### PARTS REPLACED

OUT OF STOCK INTO STOCK

_____	_____
_____	_____
_____	_____

SPRING NUMBER \_\_\_\_\_

NEW PART NUMBER \_\_\_\_\_

### FINAL SETTING DATA

SET PRESSURE: 51 RESEAT PRESSURE: 44

SIMMER: 49 LEAKAGE: 0 BPM

TEST MEDIA: AIR CODE SECTION: VIII BP TEST: 60 psi Good

### COMMENTS:

VALVE SERVICED BY: \_\_\_\_\_

VALVE TESTED BY: \_\_\_\_\_

CUSTOMER APPROVAL: \_\_\_\_\_ (IF APPROPRIATE)

WITNESS: \_\_\_\_\_ (INDEPENDENT)

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

A454212  
 Form U1-A

1. Manufactured and certified by PENFABCO LTD. 5720 - 103A STREET EDMONTON, ALBERTA, CANADA T6H 2J5  
 (Name and address of Manufacturer)

Manufactured for Jiro Manufacturing Ltd. P.O. Box 1450 Stettler, Alberta T0C 2L0  
 (Name and address of Purchaser)

3. Location of Installation \_\_\_\_\_ Stock Item \_\_\_\_\_  
 (Name and address)

4. Type Vertical PE 5944 H3189.213 PE-2614 Rev. 5 N/A 2000  
 (Horiz. or vert. tank) (Mfg'r'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 1998  
 to 99 N/A N/A (Year)

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

6. Shell: SA-106-B .375" .0625" 23.26' 40' s/s  
 Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. ID (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Stms None 85% N/A N/A Type 1 None 1  
 Long (Welded, Dbl., Singl., Lap, Butt) RT (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (Hr.) Girth (Welded, Dbl., Singl., Lap, Butt) RT (Spot, Partial or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70N (b) Mat'l. \_\_\_\_\_  
 (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	.3125"	.0625"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b) Bottom	.3125"	.0625"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings) \_\_\_\_\_ None \_\_\_\_\_  
 (Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 275 psi at max. temp. 100 °F  
 Min. design metal temp. -20 °F at 275 psi. Hydro Pneu., or Comb. test pressure 413 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Material	Nom. Thickness	Reinforcement Material	How Attached	Location
Inlet	1	4"	RF/W	SA-105N	150# Sch 160	N/A	UW16 .1(c)	Shell
Outlet	1	4"	RF/W	SA-105N	150# Sch 160	N/A	UW16 .1(c)	Top Head
Drain	1	1"	Cplg	SA-105N	6000#	N/A	UW16 .1(c)	Bottom Head
LGs	2	3/4"	Cplg	SA-105N	6000#	N/A	UW16 .1(c)	Shell
Water Out	1	1"	Cplg	SA-105N	6000#	N/A	UW16 .1(c)	Shell
H2SD	1	2"	Cplg	SA-105N	3000#	N/A	UW16 .1(c)	Shell
LC	1	2"	Cplg	SA-105N	3000#	N/A	UW16 .1(c)	Shell
Inspections	2	2"	Cplg	SA-105N	3000#	N/A	UW16 .1(c)	Shell

11. Supports: Skirt Yes Lugs No Legs No Other No Attached Welded to Btm Head  
 (yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports property identified and signed by Commissioned Inspectors have been furnished for the following items of the report: PSV installed in piping - BY OTHERS  
 (Name of part, item number, Mfg'r's name and identifying stamp)

Impact Tests Not Required Per UG-20(f)1-5 2 Phase Separator  
 Volume: 14.40 cu. ft. (.41 m³)

**CERTIFICATE OF SHOP 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. 14363  
 expires 12-28, 2001.  
 Date: April 28, 2000 Co. Name: PENFABCO LTD. Signed: m. Bazin  
 (Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by Penfabco Ltd. at Edmonton, Alberta, I, the undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Alberta and employed by Alberta Boilers Safety Association have inspected the component described in this Manufacturer's Data Report on April 28, 2000, 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 April 28/2000 Signed Harold Lake Commissions AB 4587  
 (Authorized Inspector) Nat'l. Board (Incl. endorsements, State, Prov. and No.)



MANUFACTURED & CERTIFIED BY  
PENFABCO LTD. EDMONTON AB



W

①454212

MAWP

275

PSI AT

100

"F YEAR

2000

PIE WT

-20

"F AT

275

PSI C.A.

0625

SERIAL NO. PE

5944

C.R.N.

H 3189.213

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

A454217

Form U-1-A

1. Manufactured and certified by PENFABCO LTD. 5720 - 103A STREET EDMONTON, ALBERTA, CANADA T6H 2J5  
 (Name and address of Manufacturer)

2. Manufactured for Jiro Manufacturing Ltd P.O. Box 1450 Stettler, Alberta T0C 2L0  
 (Name and address of Purchaser)

3. Location of Installation Stock Item  
 (Name and address)

4. Type Vertical PE 5973 L 8012. 2 PE 5437 Rev. 1 N/A 2000  
 (Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Natl. 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 1998  
 to 99 N/A N/A (Year)

6. Shell: Addenda (Date) Code Case Nos. Special Service per UG-120 (d)  
SA-106-B 375' .0625' 19.26' 37" s/s  
 Mat'l. (Spec. No., Grade) Nom. Thk (in.) Corr. Allow. (in.) Diam. ID (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Srms N/A 100% N/A N/A Type 1 UW1(a)(b) 1  
 Long (Welded, Cbl., Singl., Lap, Butt) RT (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr.) Girth (Welded, Cbl., Singl., Lap, Butt) RT (Spot, Partial or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70N (b) Mat'l. 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	1.625"	.0625"	N/A	N/A	N/A	N/A	N/A	19.25'	N/A
(b) Bottom	0.27"	.0625"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings) 16 - 3/4" x 2 5/8" bolts & washers SA-193-B7  
 (Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 360 psi at max. temp. 250 °F  
 Min. design metal temp. -20 °F at 360 psi. (Hydro., Pneu., or Comb. test pressure 540 psi.)

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Material	Nom. Thickness	Reinforcement Material	How Attached	Location
Inlet	1	2 1/2"	Cplg	SA-105N	3000#	N/A	UW16.1 (c)	Shell
Oil Outlet	1	1 1/2"	Cplg	SA-105N	3000#	N/A	UW16.1 (c)	Shell
Spare	1	1 1/2"	Cplg	SA-105N	3000#	N/A	UW16.1 (c)	Shell
Spare	1	1"	Cplg	SA-105N	3000#	N/A	UW16.1 (c)	Shell
Drain	1	1"	Cplg	SA-105N	3000#	N/A	UW16.1 (c)	Bottom Head
Gas Outlet	1	2"	NPT	N/A	N/A	N/A	Tapped	Top Head
Scavenger	1	3/4"	NPT	N/A	N/A	N/A	Tapped	Top Head
PI	1	1/4"	NPT	N/A	N/A	N/A	Tapped	Top Head

11. Supports: Skirt Yes Lugs No Legs No Other No Attached Welded to Elm Head  
 (yes or no) (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: Manufactured to Dwg. C-20-001.5 Rev. 5  
 (Name of part, item number, Mfr's. name and identifying stamp)

Impact test not required Per UG-20 (f)  
 Volume: 7.2 cu ft. (20 m<sup>3</sup>)  
 Continued on U-4 Supplementary Sheet

**CERTIFICATE OF SHOP 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. 14,383 expires 12-28, 2001.

Date: May 02, 2000 Co. Name: PENFABCO LTD. Signed: M. Bani  
 (Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by Penfabco Ltd at Edmonton, Alberta, the undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Alberta and employed by Alberta Boilers Safety Association have inspected the component described in this Manufacturer's Data Report on ay 02, 2000, 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 May 02/2000 Signed Harold Lake Commissions AB #87  
 (Authorized Inspector) (Natl. Board (Incl. endorsements, State, Prov. and No.))





MANUFACTURED & CERTIFIED BY   
PENFABCO LTD. EDMONTON AB

RT2 W

Ⓐ 454 217

HA WP	360	PSI AT	250	"F YEAR	2000
HD WT	-20	"F AT	360	PSI C.A.	.0625
SERIAL NO.	PE 5973	C.R.N.	L8012.2		