

**9000 SERIES PORTABLE GAS COMPRESSOR**

**SERIAL NO.PE5934**

**MANUFACTURED BY**

**JIRO MANUFACTURING LTD.**

**QUALITY CONTROL MANUAL**

**FOR**

**PANCANADIAN RESOURCES LTD.**

**ERS90109**

**9000 SERIES PORTABLE GAS COMPRESSOR**

**PANCANADIAN RESOURCES LTD.**

**MATERIAL LIST**

**ERS 90109**

|                               |                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>INLET SEPARATOR:</b>       | V-100-INLET SEPARATOR<br>MAKE-PENFABCO<br>CRN NO.H3189.213<br>MAWP-275<br>MIN TEMP-20 DEG F<br>SERIAL NO.PE5952<br>(A)454277     |
| <b>INLET GAS FILTER:</b>      | V-200-INLET GAS FILTER<br>MAKE-NAFCO<br>MODEL NO.41030-FO8D<br>SERIAL NO.94UM                                                    |
| <b>OIL COALESCING VESSEL:</b> | V-300-OIL COALESCING VESSEL<br>MAKE-PENFABCO<br>CRN NO.L9951.2<br>MAWP-300<br>MAX TEMP-250DEG F<br>SERIAL NO.PE5934<br>(A)454300 |
| <b>FUEL SCRUBBER:</b>         | V-400-FUEL SCRUBBER<br>MAKE-JIRO<br>SERIAL NO.4HP-139                                                                            |
| <b>SCREW COMPRESSOR:</b>      | C-500-SCREW COMPRESSOR<br>MAKE-MYCOM<br>MODEL NO.160VLRD-222<br>SERIAL NO.1642395                                                |

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|                                |                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------|
| <b>NATURAL GAS<br/>ENGINE:</b> | E-600-NATURAL GAS ENGINE<br>MAKE-CATERPILLAR<br>MODEL-3306<br>SERIAL NO.07Y07545 |
| <b>HEATERS:</b>                | H-700/H-800-HEATERS<br>MAKE-CIS CAN<br>SIZE-24" X 24"<br>SERIAL NO.162568/164848 |
| <b>PUMP:</b>                   | P-900-PUMP<br>MAKE-SHEARING HYDROLICS<br>MODEL-D2300<br>SERIAL NO.E25997         |
| <b>STARTER:</b>                | MAKE-TDI<br>MODEL-T301<br>SERIAL NO.0001 374                                     |
| <b>COOLER:</b>                 | MAKE-YOUNG RADIATOR COMPANY                                                      |
| <b>RADIATOR:</b>               | MODEL NO.US-MADAC-17A                                                            |
| <b>HEAT EXCHANGER:</b>         | MAKE-ACOC<br>SERIAL NO.Z4406                                                     |

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|                         |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| <b>IGNITION SYSTEM:</b> | 1-ALTRONIC PYROMETER SERIAL NO.1826                                                         |
|                         | 1-ALTRONCI ANNUNCIATOR SERIAL NO.2468                                                       |
|                         | 1-ALTRONIC ANNUNCIATOR POWER SUPPLY<br>SERIAL NO.2953                                       |
|                         | 1-ALTRONIC CPU-95 IGNITION SYSTEM<br>SERIAL NO.8356                                         |
| <b>VALVES:</b>          | PC-100-PRESSURE CONTROLLER<br>MAKE-FISHER<br>TYPE-4150<br>SERIAL NO.15586457                |
|                         | PCV-100-PRESSURE CONTROL VALVE<br>MAKE-FISHER V-BALL V100<br>TYPE-1052<br>SERIAL NO.7117070 |
|                         | PCV-101-PRESSURE CONTROL VALVE<br>MAKE-FISHER<br>TYPE-128 PQC<br>SERIAL NO.15465084         |
|                         | LC-100-LEVEL CONTROLLER<br>MAKE-FISHER<br>TYPE-2680<br>SERIAL NO.15549533                   |

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**VALVES:**

PSV-100-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-75 PSI  
SERIAL NO.88555

PSV-300-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-300 PSI  
SERIAL NO.88564

PSV-400-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-300 PSI  
SERIAL NO.87832

PSV-500-PRESSURE SAFETY VALVE  
MAKE-MERCER  
SERIES-9100  
SET PR-285 PSI  
SERIAL NO.88321

LG-100-LEVEL GAUGE  
MAKE- $\frac{3}{4}$ " RED LINE SIGHT GLASS

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

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**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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**VALVES:**

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

DPS-100-DIFFERENTIAL PRESSURE SWITCH  
MAKE-TELEMATIC CONTROLS INC.  
TYPE-CUSTOM CONTROL SENSOR  
SERIAL NO.06202252-14

BPCV-300-BACK PRESSURE CONTROL VALVE  
MAKE-KIMRAY  
SIZE-2" 300  
SERIAL NO.2001350143

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.F7380

1-4057 AMOT LATCH SERIAL NO.F5903

1-4" 400 FP NUTRON BALL VALVE  
SERIAL NO. 01553-005

**9000 SERIES PORTABLE GAS COMPRESSOR**

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**MATERIAL LIST**

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**VALVES:**

1-4" 150 STD CROWN CHECK VALVE  
SERIAL NO.01553-005

2-3" 300 STD CROWN CHECK VALVES  
SERIAL NO.8851-14/87992-14

1-2" 300 STD CROWN CHECK VALVES SERIAL NO.  
87566-29

1-2" THRD DUCTILE IRON CHECK VALVE  
SERIAL NO.88117-16

2-1 ½" THRD MAS BALL VALVES 2000

1-1 ½" THRD WHEATLEY CHECK VALVE

1-1" 800 CLASS GLOBE VALVE

1-TECHNOLAB 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

1-1" Y-STRAINER

1-1" THRD DUCTILE IRON CHECK VALVE



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**VALVES:**

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

**GAUGES:**

DPG-DIFERENTIAL PRESSURE GUAGE  
MAKE-MID WEST  
SET-0-50 PSI  
SERIAL NO.3292461/332049

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

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**MATERIAL LIST**

**ERS 90109**

**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-  
-40-160 DEG F

PSL-100 PRESSURE SWITCH LOW  
MAKE TELEMATIC CONTROLS  
MODEL NO. T-13005  
SET PRESSURE 5 PSI  
SERIAL NO.16202330-14

PSH-101 PRESSURE SWITCH HIGH  
MAKE TELEMATIC CONTROLS  
MODEL NO. T-13004  
SET PRESSURE 75 PSI  
SERIAL NO.06202330-4

PSH-100 PRESSURE SWITCH HIGH  
MAKE TELEMATIC CONTROLS  
MODEL NO. T-13005  
SET PRESSURE 300 PSI  
SERIAL NO.06202330-16

## **9000 SERIES PORTABLE GAS COMPRESSOR**

### **PANCANADIAN RESOURCES LTD.**

#### **MATERIAL LIST**

##### **E.R.S.90109**

| <b>QTY:</b> | <b>DESCRIPTION:</b>                 | <b>GRADE:</b> | <b>HEAT NO:</b> |
|-------------|-------------------------------------|---------------|-----------------|
| 1           | 6" 300 SCH 40 RF WN FLANGES         | SA-105        | 42TR            |
| 1           | 6" X 3" SCH 40 CONCENTRIC REDUCER   | WPB           | 9E2590          |
| 3           | 4" 300 SCH 40 RF WN FLANGES         | SA-105        | 44AV            |
| 8           | 4" 150 SCH 40 RF WN FLANGES         | SA-105        | 278AT/239AT     |
| 1           | 4" 150 SCH 80 RF WN FLANGES         | SA-105        | 35622           |
| 6           | 4" SCH 40 90 DEG WELD ELLS          | WPB           | 98C0007/75009   |
| 2           | 4" X 3" SCH 40 CONCENTRIC REDUCER   | WPB           | 9J6517          |
| 1           | 4" X 3" SCH 80 CONCENTRIC REDUCER   | WPB           | 0012026         |
| 1           | 4" X 2" SCH 80 RED TEE              | WPB           | 9862017         |
|             |                                     |               | 99B1071         |
|             |                                     |               | 99A1064         |
| 1           | 3" COMPANION FLANGE                 | SA-105        |                 |
| 17          | 3" 300 SCH 40 RF WN FLANGES         | SA-105        | 36839/33824     |
| 1           | 3" 300 SCH 80 RF WN FLANGES         | SA-105        | 384TR/264TR     |
| 3           | 3" 150 SCH 40 RF WN FLANGES         | SA-105        | 33817/33848     |
| 11          | 3" SCH 40 90 DEG WELD ELLS          | WPB           | 99B0007/41B     |
|             |                                     |               | 0A4121          |
|             |                                     |               | 99A0058         |
| 1           | 3" SCH 40 45 DEG WELD ELLS          | WPB           | 64028           |
| 1           | 3" SCH 40 WELD TEE                  | WPB           | 9Y531/555C      |
| 2           | 3" X 2" SCH 40 CONCENTRIC REDUCER   | WPB           | 99A2017         |
| 1           | 3" X 2" SCH 40 SWAGE BLE X TSE      | SA-106        | ULJ             |
| 1           | 3" X 2 ½" SCH 40 RED TEE            | WPB           | 89509           |
| 1           | 3" X 1 ½" SCH 40 CONCENTRIC REDUCER | WPB           | 8G11A3          |
| 1           | 2 ½" 150 SCH 40 RF WN FLANGES       | SA-105        | 74242           |
| 1           | 2 ½" SCH 40 90 DEG WELD ELL         | WPB           | 9F3072          |

## **9000 SERIES PORTABLE GAS COMPRESSOR**

### **PANCANADIAN RESOURCES LTD.**

#### **MATERIAL TAKEOFF**

**E.R.S.90109**

| <b>QTY:</b> | <b>DESCRIPTION:</b>           | <b>GRADE:</b> | <b>HEAT NO:</b>         |
|-------------|-------------------------------|---------------|-------------------------|
| 2           | 2" 300 SCH 80 RF WN FLANGES   | SA-105        | 264TR                   |
| 1           | 2" 150 SCH 80 RF WN FLANGES   | SA-105        | RN2                     |
| 1           | 2" SCH 40 90 DEG WELD ELLS    | WPB           | U71                     |
| 1           | 2" SCH 80 90 DEG WELD ELLS    | WPB           | 8C38K2                  |
| 1           | 2" FS THRD UNIONS 3000        | SA-105        | 02                      |
| 4           | 2" FS THRD 90 DEG ELLS 2000   | SA-105        | CRA9                    |
| 1           | 1 ½" 300 SCH 80 RF WN FLANGE  | SA-105        | 36AS                    |
| 10          | 1 ½" FS THRD 90 DEG ELLS 2000 | SA-105        | FC3                     |
| 8           | 1 ½" FS THRD UNIONS 3000      | SA-105        | Z12                     |
| 4           | 1 ½" FS THRD TEES 2000        | SA-105        | 1069                    |
| 1           | 1 ½" FS THRD CROSS 2000       | SA-105        | 38355                   |
| 6           | 1" FS THREAD-O-LETS 3000      | SA-105        | 38405/100506<br>AZY/AZG |
| 2           | 1" FS ELBOW-O-LET 3000        | SA-105        | 38222                   |
| 2           | 1" X ¾" XH SWAGE TBE          | SA-106        | UKQ                     |
| 3           | 1" FS THRD 45 DEG ELLS 2000   | SA-105        | 334AS                   |
| 38          | 1" FS THRD 90 DEG ELLS 2000   | SA-105        | Z37                     |
| 12          | 1" FS THRD TEES 2000          | SA-105        | 55185/55105<br>84T      |
| 20          | 1" FS THRD UNIONS 3000        | SA-105        | C32                     |
| 1           | 1" X ¼" XH SWAGE TBE          | SA-106        | UKQ                     |
| 1           | 1" FS THRD FULL COLLAR 3000   | SA-105        | 1261                    |
| 2           | ¾" FS THREAD-O-LETS 3000      | SA-105        | 38333                   |
| 10          | ½" FS THREAD-O-LETS 3000      | SA-105        | 38399/7634<br>A3H/AZX   |
| 3           | ½" FS ELBOW-O-LETS 3000       | SA-105        | 37634/38413             |

**9000 SERIES PORTABLE GAS COMPRESSOR**

**PANCANADIAN RESOURCES LTD.**

**MATERIAL TAKEOFF**

**E.R.S.90109**

| <b>QTY:</b>               | <b>DESCRIPTION:</b>         | <b>GRADE:</b> | <b>HEAT NO:</b> |
|---------------------------|-----------------------------|---------------|-----------------|
| 2                         | ¼" FS THRD TEE 2000         | SA-105        | 78T             |
| 3                         | ¼" FS THRD 90 DEG ELLS 2000 | SA-105        | G1              |
|                           | 4" SCH 80 SMLS PIPE         | SA-106 B      | 98946           |
|                           | 4" SCH 40 SMLS PIPE         | SA-106 B      | 0368W           |
|                           | 3" SCH 40 SMLS PIPE         | SA-106 B      | 3M/9882W        |
|                           | 2 ½" SCH 80 SMLS PIPE       | SA-106 B      | 0858W           |
|                           | 2" SCH 80 SMLS PIPE         | SA-106 B      | 2L              |
| FITTINGS 4HP-139 & 2LP-93 |                             |               |                 |

**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

4454301

Form U1-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

4. Type Vertical PE 5634 L 9951.2 C-24-001 Rev.2 N/A 2000  
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year Built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER and PRESSURE VESSEL CODE.  
The design, construction, and workmanship conform to ASME rules, Section VIII, Division 1 98  
to 99 N/A N/A (Year)

Addenda (Date) SA-106 B Code Case Nos. 375 Special Service per UG-120 (d) 1/16" 23.25" 50"  
Mat'l. (Spec. No., Grade) (Nom. Thk. (in.) (Corr. Allow. (in.) (Diam. ID (ft. & in.) (Length (overall) (ft. & in.)

7. Seams: Sr1s N/A 100% N/A N/A Type 1 UW11(a) 5(b) 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. 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 Head                 | 2.250"            | .0625"              | N/A          | N/A            | N/A              | N/A                | N/A                  | 23.25"        | N/A                                  |
| (b) Btm Head                 | .270"             | .0625"              | N/A          | N/A            | 2:1              | N/A                | N/A                  | N/A           | Concave                              |

If removable, bolts used (describe other fastenings) 16 - 7/8" x 3 1/2" SA-193-B7 Studs  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 300 psi at max. temp. 250 °F  
Min. design metal temp. -20 °F at 300 psi. (Hydro) Pneu., or Comb. test pressure 390 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 |
|--------------------------------|-----|--------------|-------|------------|----------------|------------------------|--------------|----------|
| PI                             | 1   | 1/2"         | Cplg  | SA-105N    | 6000#          | N/A                    | UW16.1 (c)   | Shell    |
| Oil Outlet                     | 1   | 1 1/2"       | Cplg  | SA-105N    | 3000#          | N/A                    | UW16.1 (c)   | Shell    |
| LG                             | 1   | 1"           | Cplg  | SA-105N    | 3000#          | N/A                    | UW16.1 (c)   | Shell    |
| Prelube                        | 1   | 1"           | Cplg  | SA-105N    | 3000#          | N/A                    | UW16.1 (c)   | Shell    |
| Drain                          | 1   | 1"           | Cplg  | SA-105N    | 3000#          | N/A                    | UW16.1 (c)   | Btm Head |
| Fill                           | 1   | 1 1/2"       | Cplg  | SA-105N    | 3000#          | N/A                    | UW16.1 (c)   | Shell    |
| Scavenger                      | 1   | 3/4"         | Cplg  | SA-105N    | 3000#          | N/A                    | UW16.1 (c)   | Shell    |
| Insp.                          | 1   | 24" MW       | Plate | SA-516-70N | 2.250"         | N/A                    | UW13.2 (b)   | Top Head |

11. Supports: Skirt Yes Lugs 0 Legs 0 Other N/A Attached Welded to Btm Head  
(yes or no) (No.) (No.) (Describe) (Where and how)

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

Impact Tests - Exempt Per UG-20(f)

Volume: 8.07 cu.ft. (23m³)

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. 14383  
expires 12-28, 2001.  
Date: May 24 2000 Co. Name: PENFABCO LTD. Signed: [Signature]  
(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 May 24, 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 24 2000 Signed [Signature] Commissions AB457  
(Authorized Inspector) (Nat'l. Board (Incl. endorsements, State, Prov. and No.))

**FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET**  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Form U-4

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<br>(Horiz., vert. or sphere) | Coalescent Filter Housing<br>(Tank, separator, heat exch., etc.) | PE 5634<br>(Mfg's. serial No.) |
|---------|---------------------------------------|------------------------------------------------------------------|--------------------------------|

|                            |         |                                      |                         |                      |
|----------------------------|---------|--------------------------------------|-------------------------|----------------------|
| L 9951.2<br>(CRN)          |         | C - 24 - 001 Rev. 2<br>(Drawing No.) | N/A<br>(Nat'l. Bd. No.) | 2000<br>(Year built) |
| Data Report<br>Item Number | Remarks |                                      |                         |                      |

[illegible]

Certificate of Authorization: Type U No. 14,383 Expires 12-28 2001  
 Date May 24/2000 Name PENFABCO LTD. Signed [Signature]  
 (Manufacturer) (Representative)  
 Date May 24/2000 Name Harold Lake Commission AB #87  
 (Authorized Inspector) (Natl. Board incl. endorsement, State, Province and No.)



MANUFACTURED & CERTIFIED BY  
PENFABCO LTD. EDMONTON AB



RTD W

④454277

FIAM/P

275

PSI AT

100

YR YEAR

2000

PIE AT

-20

F AT

275

PSI C.A.

.0625

SERIAL NO.

PE 5952

C.R.N.

H3189.213



## 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

Form U1-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 \_\_\_\_\_  
(Name and address)
4. Type Vertical PE 5652 H3189.213 PE-2614 Rev. 5 N/A 2000  
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year Built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER and PRESSURE VESSEL CODE.  
The design, construction, and workmanship conform to ASME rules, Section VIII, Division 1 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: SA-516-70N 100% N/A N/A Type 1 UWV11(a) 5(b) 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. 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                      | .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

9. MAWP 275 psi at max. temp. 100 °F  
(Mat'l., Spec. No., Gr., Size, No.)
- 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"           | RFWN | SA-105N  | 150# Sch 160   | N/A                    | UWV16.1(c)   | Shell       |
| Outlet                         | 1   | 4"           | RFWN | SA-105N  | 150# Sch 160   | N/A                    | UWV16.1(c)   | Top Head    |
| Drain                          | 1   | 1"           | Cplg | SA-105N  | 6000#          | N/A                    | UWV16.1(c)   | Bottom Head |
| LGs                            | 2   | 3/4"         | Cplg | SA-105N  | 6000#          | N/A                    | UWV16.1(c)   | Shell       |
| Water Out                      | 1   | 1"           | Cplg | SA-105N  | 6000#          | N/A                    | UWV16.1(c)   | Shell       |
| HLS                            | 1   | 2"           | Cplg | SA-105N  | 3000#          | N/A                    | UWV16.1(c)   | Shell       |
| LC                             | 1   | 2"           | Cplg | SA-105N  | 3000#          | N/A                    | UWV16.1(c)   | Shell       |
| Inspections                    | 2   | 2"           | Cplg | SA-105N  | 3000#          | N/A                    | UWV16.1(c)   | Shell       |

11. Supports: Skirt Yes Lugs 0 Legs 0 Other N/A Attached Welded to Btm Head  
(yes or no) (No.) (No.) (Describe) (Where and how)
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: PSV installed in piping - BY OTHERS  
(Name of part, item number, Mfr's. name and identifying stamp)

Impact Tests Not Required Per UG-20(f)1-5

2 Phase Separator

Volume: 14.40 cu. ft. (.41 m<sup>3</sup>)

## 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. 14383  
expires 12-28, 2001.

Date: May 16, 2000

Co. Name:

PENFABCO LTD.  
(Manufacturer)

Signed:

M. Bayin  
(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 May 16, 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 16/2000

Signed

Herald Lehto  
(Authorized Inspector)

Commissions

AB #87  
Nat'l. Board (Incl. endorsements, State, Prov. and No.)



MANUFACTURED & CERTIFIED BY  
PENFABCO LTD. EDMONTON AB



RTG W

A454300

TAWP

300

PSI AT

250

TF YEAR

2000

TD MT

-20

TF AT

300

PSI C.A.

.0625

SERIAL NO.

PE 5934

C.R.N.

L9951.2



AB-83 97/01

**CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS**Field Construction ☐Shop Construction ☒

1. Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
2. Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
3. Constructed For: PANCANADIAN RESOURCES LTD. Job No: 90109  
(Name and Address)
4. Owner: PANCANADIAN RESOURCES LTD. 150-9<sup>TH</sup> AVE SW CALGARY, AB T2P 2S5  
(Name and Location of Installation)
5. Piping Design Provincial Registration No.: N/A
6. Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1 (1803.2)
7. 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 JUNE 14, 2000JIRO MFG LTD.

by

Contractor

Authorised Representative

**CERTIFICATE OF INSPECTION**

CALIPER INSPECTION LTD.

#116, 276 Midpark Way S.E.

Calgary, Alberta

I, the undersigned, employed by CALIPER INSPECTION LTD. 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:

AUG 27 2000

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.



AB-83 97/01

**CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS**Field Construction ☐Shop Construction ☒

1. Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
2. Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
3. Constructed For: PANCANADIAN RESOURCES LTD. Job No: 90109  
(Name and Address)
4. Owner: PANCANADIAN RESOURCES LTD. 150-9TH AVE SW CALGARY, AB T2P 2S5  
(Name and Location of Installation)
5. Piping Design Provincial Registration No.: N/A
6. Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1/JML-3 (1803.2)
7. 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 |
|-----------------------|-------------------------|-----------------|---------------|-------------|-------------|---------------------|------------------|---------------------|--------------------|--------|-----------|
| 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       |

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 JUNE 14, 2000 JIRO MFG LTD. by C. Wilkie  
Contractor Authorised Representative

**CERTIFICATE OF INSPECTION**

CALIPER INSPECTION LTD.  
#116, 276 Midpark Way S.E.  
Calgary, Alberta  
T2X 1G5

I, the undersigned, employed by Calgary, Alberta 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: AUG 27 2000 Date \_\_\_\_\_

[Signature]  
Owner's Client/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.



AB-83 97/01

**CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS**Field Construction ☐Shop Construction ☒

1. Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
2. Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
3. Constructed For: PANCANADIAN RESOURCES LTD. Job No: 90109  
(Name and Address)
4. Owner: PANCANADIAN RESOURCES LTD. 150-9TH AVE SW CALGARY, AB T2P 2S5  
(Name and Location of Installation)
5. Piping Design Provincial Registration No.: N/A
6. Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1/JML-3 (1803.2)
7. 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 JUNE 14, 2000 JIRO MFG LTD. by P. W. Willie  
Contractor Authorised Representative

**CERTIFICATE OF INSPECTION**CALIFORNIA INSPECTION CO.  
#116, 276 Midpark Way S.E.

I, the undersigned, employed by Calgary, Alberta 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: AUG 27 2000 Date \_\_\_\_\_

Owner's/Client's InspectorSafety 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.



AB-83 97/01

**CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS**Field Construction ☐Shop Construction ☒

1. Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
2. Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
3. Constructed For: PANCANADIAN RESOURCES LTD. Job No: 90109  
(Name and Address)
4. Owner: PANCANADIAN RESOURCES LTD. 150-9TH AVE SW CALGARY, AB T2P 2S5  
(Name and Location of Installation)
5. Piping Design Provincial Registration No.: N/A
6. Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1 (1803.2)
7. 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 JUNE 14, 2000 JIRO MFG LTD. by P. W. Wilkie  
Contractor Authorised Representative

**CERTIFICATE OF INSPECTION**

CALIPER INSPECTION LTD.  
#116, 276 Midpark Way S.E.  
Calgary, Alberta

I, the undersigned, employed by Calgary, Alberta 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: AUG 27 2000 Date \_\_\_\_\_

[Signature] \_\_\_\_\_  
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.



AB-83 97/01

**CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS**Field Construction ☐Shop Construction ☒

1. Constructed By: JIRO MANUFACTURING LTD. Prov. Quality Program No. AQP 2582
2. Address: BOX 1450 STETTLER, ALBERTA T0C 2L0 Expiry Date: JAN 20/2001
3. Constructed For: PANCANADIAN RESOURCES LTD. Job No: 90109  
(Name and Address)
4. Owner: PANCANADIAN RESOURCES LTD. 150-9TH AVE SW CALGARY, AB T2P 2S5  
(Name and Location of Installation)
5. Piping Design Provincial Registration No.: N/A
6. Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: JML-1/JML-3 (1803.2)
7. 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 JUNE 14, 2000 JIRO MFG LTD. by P. Williams  
Contractor Authorised Representative

**CERTIFICATE OF INSPECTION**CALIFER INSPECTION LTD.  
#116, 276 Midpark Way S.E.

I, the undersigned, employed by Calgary, Alberta 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: AUG 27 2000 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.



# MERCER VALVE CANADA

T120

TEST REPORT - PSV 1481

DATE June 7/00 WO# \_\_\_\_\_ S/N 88321  
MERCER - TYPE 911710511809E SIZE 1x1/2" NPT  
SET PRESSURE 300 BP \_\_\_\_\_ COLD / DIFF SET \_\_\_\_\_  
TEMPERATURE 60 °F □ CAPACITY 631 SPRING RANGE 230-400  
MAX TEMP. 400 °F □ MANUFACTURES DATE 05-00  
RESET PRESSURE 285 NEW CAPACITY RATING 601 SCFH

## PARTS REPLACED

OUT OF STOCK INTO STOCK

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

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

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

## FINAL SETTING DATA

SET PRESSURE: 287 RESEAT PRESSURE: 173

SIMMER: 282 LEAKAGE: 0 BPM

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

COMMENTS:

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

VALVE TESTED BY: AD

CUSTOMER APPROVAL: AB (IF APPROPRIATE) PCP # 102154

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

Mercer Valve Canada 3102 80 Ave S.E., Calgary, AB T2C 1J3  
Ph: 403-236-5366 - 1-800-661-3294  
Fax 403-236-1981





# MERCER VALVE CANADA

JTRO

TEST REPORT - PSV 1499

DATE June 2/00 WO# M5729 S/N 87832  
MERCER - TYPE 9117057/805E SIZE 1X/m/FNPT  
SET PRESSURE 30 BP — COLD / DIFF SET —  
TEMPERATURE 70°F CAPACITY 128 SPRING RANGE 45-75  
MAX TEMP. 400°F MANUFACTURES DATE 05-00  
RESET PRESSURE — NEW CAPACITY RATING —

## PARTS REPLACED

OUT OF STOCK INTO STOCK

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

SPRING NUMBER  

NEW PART NUMBER  

## FINAL SETTING DATA

SET PRESSURE: 50 RESEAT PRESSURE: 33

SIMMER: 49 LEAKAGE: 0 BPM

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

## COMMENTS:

VALVE SERVICED BY:  

VALVE TESTED BY: R

CUSTOMER APPROVAL: AB (IF APPROPRIATE) PCP # 012417

WITNESS:   (INDEPENDENT)

Mercer Valve Canada 3102 80 Ave S.E., Calgary, AB T2C 1J3  
Ph: 403-236-5366 - 1-800-661-3294  
Fax 403-236-1981



# MERCER VALVE CANADA

TEST REPORT - PSV 1474

DATE June 2/90 WO# 115729 S/N 88564  
MERCER - TYPE 91386111813 SIZE 1/2 300RFX 2 1/2 150RF  
SET PRESSURE 300 BP        COLD / DIFF SET         
TEMPERATURE 70 °F CAPACITY 2441 SPRING RANGE         
MAX TEMP. 400 °F MANUFACTURES DATE 05-00  
RESET PRESSURE        NEW CAPACITY RATING       

## PARTS REPLACED

### OUT OF STOCK INTO STOCK

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

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

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

### FINAL SETTING DATA

SET PRESSURE: 300 RESEAT PRESSURE: 281

SIMMER: 289 LEAKAGE: 0 BPM

TEST MEDIA: AIR CODE SECTION: VIII BP TEST: 60psi Gant.

### COMMENTS:

VALVE SERVICED BY: E

VALVE TESTED BY: P

CUSTOMER APPROVAL: AB (IF APPROPRIATE) PCP #012362

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

Mercer Valve Canada 3102 80 Ave S.E., Calgary, AB T2C 1J3  
Ph: 403-236-5366 - 1-800-661-3294  
Fax 403-236-1981



# MERCER VALVE CANADA

TIRO

TEST REPORT - PSV 1493

DATE June 2/00 WO# M5729 S/N 88555  
MERCER - TYPE 91170511806E SIZE 1x1m/rupt  
SET PRESSURE 80 BP        COLD / DIFF SET         
TEMPERATURE 70F CAPACITY 188 SPRING RANGE 75-120  
MAX TEMP. 400F MANUFACTURES DATE 05-00  
RESET PRESSURE        NEW CAPACITY RATING       

## PARTS REPLACED

OUT OF STOCK INTO STOCK

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

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

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

## FINAL SETTING DATA

SET PRESSURE: 81 psi RESEAT PRESSURE: 61 psi

SIMMER: 78 psi LEAKAGE: 0 BPM       

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

## COMMENTS:

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

VALVE TESTED BY: R

CUSTOMER APPROVAL: AB (IF APPROPRIATE) PCP # 012233

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

Mercer Valve Canada 3102 80 Ave S.E., Calgary, AB T2C 1J3  
Ph: 403-236-5366 - 1-800-661-3294  
Fax 403-236-1981



# IJD ELECTRICAL INSPECTION SERVICES

4234-33rd Street, Red Deer, Alberta T4N 0R6  
Ph: (403) 346-6533 • Fax: (403) 347-2533



Applicant Section (to be completed by the permit applicant):

LABOUR LABEL NO. 184928

Owner Name: JIRD Address: 3806 44AVE  
SEATTLE, AB Postal Code: T0C-2L0  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Owner's signature/declaration (homeowner permits only) I hereby declare I am the owner of the premises in which the electrical work is conducted, and reside on the property. I am doing the work myself, and assume responsibility for compliance with the applicable Act and Regulations.

Occupants Name (if different from Owner):

Phone: \_\_\_\_\_

Contractor: D.B. ELECTRIC Address: Box 543 SEATTLE

Phone: 742-5457 Fax: \_\_\_\_\_ T0C-2L0

DICK BOWLES Master Electrician's name (print or type) [Signature] Master Electrician's signature 4505 06/2000 Master Electrician's # and expiry

Project Location: Municipality: \_\_\_\_\_ Street Address: \_\_\_\_\_

Lot/Block/Plan: Lot \_\_\_\_\_ Block \_\_\_\_\_ Plan \_\_\_\_\_

Legal Subdivision: Part of \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rge. \_\_\_\_\_ W. of \_\_\_\_\_ Subdivision name: \_\_\_\_\_

Project Information: Expected completion date: \_\_\_\_\_

Intended use or occupancy of the building: 90109 COMPRESSOR

Type of Work: ☒ New Work ☐ Renovations ☐ Connection ☐ Alteration ☐ Other (specify) \_\_\_\_\_

Value of work (materials and labour): \$3000 Service: Amperes: 30 Voltage: 12 Phase: \_\_\_\_\_

Description of work: CONDUIT

Permit Validation Section (to be completed by the Agency):

Permit type: ☐ Contractor ☐ Homeowner ☐ Temporary Service ☐ Annual Prints required: ☐ Yes ☒ No

Special conditions: \_\_\_\_\_

IVAN DOBLER or JIM DOBLER Issuing Officer's Name [Signature] Issuing Officer's Signature

I.D. D430 - J.D. D938 Issuing Officer's Designation # JUNE 20/00 Date of Issue

Permit Fee: \_\_\_\_\_ Payment method: ☐ Visa ☐ Cash ☐ Cheque ☐ Other: \_\_\_\_\_

Name of Cardholder: \_\_\_\_\_ Card #: \_\_\_\_\_

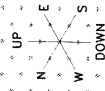
Signature of Cardholder: \_\_\_\_\_ Expiry Date: \_\_\_\_\_

THIS PERMIT IS ISSUED UNDER THE AUTHORIZATION OF ALBERTA LABOUR AND IS THEREFORE GST (GOODS AND SERVICE TAX) EXEMPT.  
WHITE - Supply Authority's Copy GREEN - I.I.D. Agency Copy PINK - Alberta Labour Copy YELLOW - Applicant's Copy & Receipt

JIRO MANUFACTURING LTD.



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

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JUN 20 2003

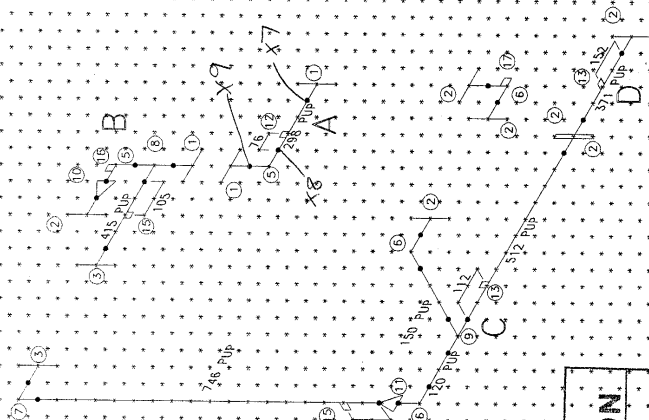
# FITTINGS, FLANGES & PIPE



JIRO MANUFACTURING LTD.

BOX 1450  
STETTLER, ALBERTA T0C 2L0  
PHONE: 742-5535 FAX: 742-5539

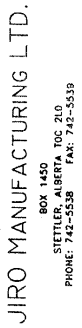
| ITEM | QTY.         | SIZE              | DESCRIPTION           | MAT.   | M.T.R. NO. |
|------|--------------|-------------------|-----------------------|--------|------------|
| ①    | 2            | 4"                | SCH 40 500# RFWN FLG  | A-105  | 44AV       |
| ②    | 7            | 3"                | SCH 40 300# RFWN FLG  | A-105  | 36839      |
| ③    | 2            | 2"                | SCH 80 300# RFWN FLG  | A-105  | 264TR      |
| ④    |              |                   |                       |        |            |
| ⑤    | 2            | 4"                | SCH 40 90° ELL        | WPB    | 98C0007    |
| ⑥    | 3            | 3"                | SCH 40 90° ELL        | WPB    | 0A4121     |
| ⑦    | 1            | 2"                | SCH 80 90° ELL        | WPB    | 8C38K2     |
| ⑧    | 1            | 4"x2"             | SCH 40xSCH 80 RED TEE | WPB    | 99B1071    |
| ⑨    | 1            | 3"                | SCH 40 TEE            | WPB    | 9Y531      |
| ⑩    | 1            | 4"x3"             | SCH 40 CON RED        | WPB    | 00B0346    |
| ⑪    | 1            | 3"x2"             | SCH40xSCH 80 CON RED  | WPB    | 97A3017    |
| ⑫    | 1            | 1/2"on4"          | 3000# TOL             | A-105  | A3H        |
| ⑬    | 2            | 1"on3"            | 3000# TOL             | A-105  | 38405      |
| ⑭    |              |                   |                       |        |            |
| ⑮    | 2            | 1"on2"            | 3000# TOL             | A-105  | 1005466    |
| ⑯    | 1            | 1/2"on4"          | 3000# ELBOLET         | A-105  | 7634       |
| ⑰    | 1            | 1"on3"            | 3000# ELBOLET         | A-105  | 38220      |
| ⑱    |              |                   |                       |        |            |
| ⑲    | PIPE         | 4"                | SCH 40 SMLS           | A-106B | 0368W      |
| ⑳    | PIPE         | 3"                | SCH 40 SMLS           | A-106B | 0883W      |
| ㉑    | PIPE         | 2"                | SCH 80 SMLS           | A-106B | 2L         |
| ㉒    | 2            | Sets Of           | 4" 300# SNG           | B7     |            |
| ㉓    | 2            | Sets Of           | 3" 300# SNG           | B7     |            |
| ㉔    | 2            | Sets Of           | 2" 300# SNG           | B7     |            |
| ㉕    |              |                   |                       |        |            |
| ㉖    | X-RAY        | MAX SPEC/GRADE    | DESIGN TEMP.          |        |            |
| ㉗    | 10%          | 105% MIN          | 720 PSI               |        |            |
| ㉘    | INSULATION   | STRESS RELIEF     | DESIGN PRES.          |        |            |
| ㉙    | NO           | NO                | 720 PSI               |        |            |
| ㉚    | TEST PRES.   | INTERNALLY COATED | SWEET                 |        |            |
| ㉛    | 1080 PSI     | NO                |                       |        |            |
| ㉜    | JOB NO.      | 90109             |                       |        |            |
| ㉝    | DRAWING NO.  | PC-202-02         |                       |        |            |
| ㉞    | LINE NO.     |                   |                       |        |            |
| ㉟    | DESIGNED BY: | WPS               | APPROVED BY:          |        |            |
| ㊱    | CHECKED BY:  | WPS               | REVISION              |        |            |
| ㊲    | DATE:        | 00-01-21          | DATE OF REVISION      |        |            |



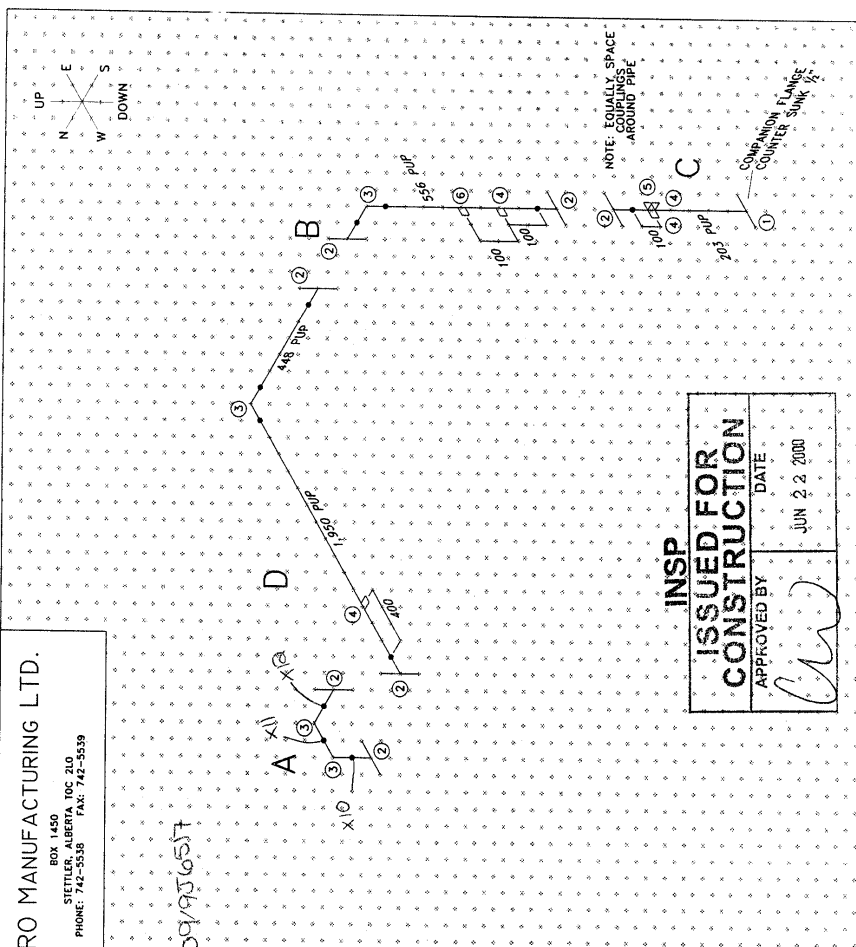
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APPROVED BY: [Signature]  
DATE: MAY 09 2007

STETTNER, ALBERTA T0C 2L0  
PHONE: 742-5538 FAX: 742-5539



**JIRO**  
BOX 1450  
STETTLE, ALBERTA T0C 2L0  
PHONE: 742-5538 FAX: 742-5539

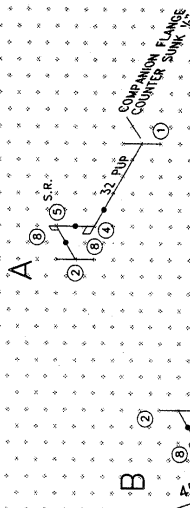
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BOX 1886  
STETTLE, ALBERTA T0C 2L0  
PHONE: 742-5538 FAX: 742-5539

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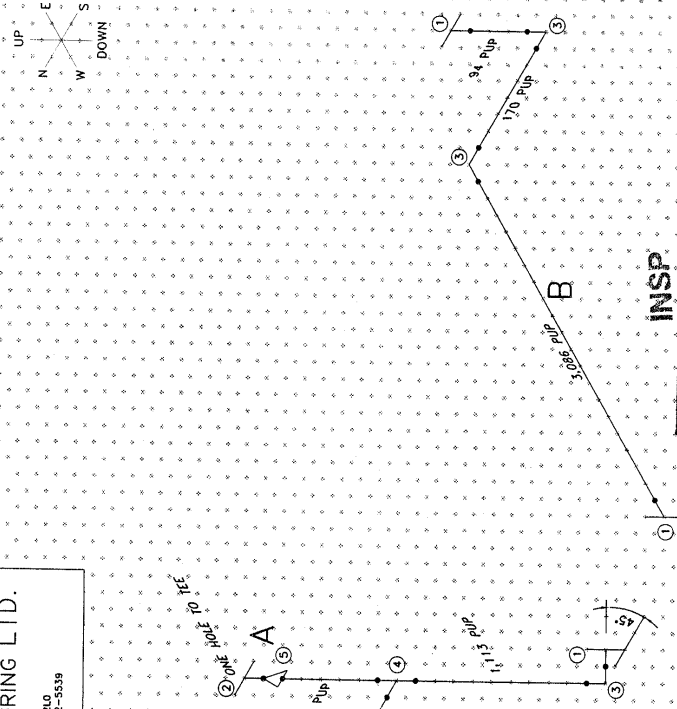
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| APPROVED BY | DATE |
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JUN 22 2000

**JIRO MANUFACTURING LTD.**  
BOX 1886  
STETTLE, ALBERTA T0C 2L0  
PHONE: 742-5538 FAX: 742-5539

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JUN 22 2000



**JIRO MANUFACTURING LTD.**  
 BOX 1450  
 SETTLER, ALBERTA T0C 2L0  
 PHONE: 742-5538 FAX: 742-5539

## FITTINGS, FLANGES & PIPE

| QTY. | SIZE      | DESCRIPTION          | MAT.   | M.T.R. NO.    |
|------|-----------|----------------------|--------|---------------|
| 3    | 3"        | SCH 40 150# RFWN FLG | A-105  | 33817/33848   |
| 1    | 2 1/2"    | SCH 40 150# RFWN FLG | A-105  | 74241A        |
| 1    | 3"x2 1/2" | SCH 40 RED. TEE      | WPB    | 89509         |
| 1    | 3"x2"     | SCH40SCH 80 SWAGE    | WPB    | ULJ           |
| 4    | 1"on3"    | 3000# TOL            | A-105  | 38405/A24/H2G |
| 1    | 2 1/2"    | SCH 40 90° ELL       | WPB    | 71567D        |
| PIPE | 3"        | SCH 40 SMLS          | A-106B | 1682A W       |
| PIPE | 2 1/2"    | SCH 40 SMLS          | A-106B | 05535 W       |
| 2    | Sets Of   | 3" 150# SNG          | B7     |               |
| 1    | Sets Of   | 2 1/2" 150# SNG      | B7     |               |

| X-RAY      | MAT. SPEC./GRADE  | DESIGN TEMP.         | NO | REVISION          |
|------------|-------------------|----------------------|----|-------------------|
| 10%        | A-105/A-106B      | 100°                 | 1  | CHANGED TO SCH 80 |
| INSULATION | STRESS RELIEF     | DESIGN PRES. 285 PSI | 2  | ADDED 2W 90° ELL  |
| TEST PRES. | INTERNALLY COATED | SWEET                |    |                   |
| 427 PSI    | NO                |                      |    |                   |

**90109**

**DRAWING NO. J-202-07**

**E NO.**

**REVISION**

**DATE OF REVISION**

**APPROVED BY:** 

**WPS** **INT-1**

**INSP**

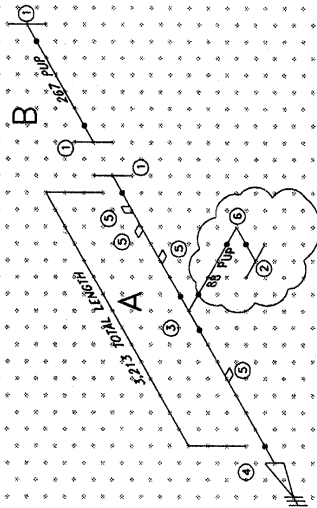
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**APPROVED BY:** 

**DATE:** MAY 25 2000



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**APPROVED BY**

APPROVED BY 

MAY 25 2000

JIRO MANUFACTURING LTD.



BOX 1886  
STETTLER, ALBERTA T0C 2L0  
PHONE: 742-5538 FAX: 742-5539

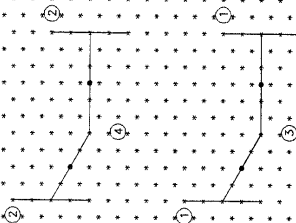
| ITEM | QTY. | SIZE   | DESCRIPTION          | MAT.  | M.T.R. NO. |
|------|------|--------|----------------------|-------|------------|
| ①    | 2    | 3"     | SCH 40 300# RFWN FLG | A-105 | 36839      |
| ②    | 2    | 4"     | SCH 40 300# RFWN FLG | A-105 | 44AV       |
| ③    | 1    | 3"     | SCH 40 45" ELL       | WPB   | 64038      |
| ④    | 1    | 4"     | SCH 40 45" ELL       | WPB   |            |
|      | 1    | Set Of | 3" 300# SNG          | B7    |            |
|      | 1    | Set Of | 4" 300# SNG          | B7    |            |

| X-RAY INSULATION      | MAT., SPEC./GRADE                    | DESIGN TEMP.            | NO | REVISION |
|-----------------------|--------------------------------------|-------------------------|----|----------|
| TEST PRES.<br>427 psi | A-105/A-105B<br>STRESS RELIEF<br>NO. | DESIGN PRES.<br>285 psi | -  | -        |
| JOB NO.               | INTERNALLY COATED<br>NO              | SWEET                   | -  | -        |
| DRAWING NO.           | 90109                                |                         | -  | -        |
| LINE NO.              | PC-202-09                            |                         | -  | -        |

| DESIGNED/DRAWN BY: | CHECKED BY: | APPROVED BY: | REVISION         |
|--------------------|-------------|--------------|------------------|
| S.A. LEGOTT        | [Signature] | [Signature]  | 0                |
| DATE: 05-26        | WELDED      | WPS IMI-1    | DATE OF REVISION |



INSPECTION

ISSUED FOR CONSTRUCTION

APPROVED BY: 

DATE: MAY 29 2000