



CHERCO COMPRESSORS LTD.

8625 - 68 ST. S.E., CALGARY, ALBERTA
MAIL: P.O. BOX 1390, STN. 'T', CALGARY, ALTA. T2H 2H6
(403) 236-5252 FAX: (403) 236-4261

UNIT IDENTIFICATION

CHERCO COMPRESSORS LTD. - UNIT CC208

for COREXCANA LTD.

FOURTH COMPRESSOR STATION

LSD 16-11-82-9-W6M

COMPRESSOR: COOPER RAM 54
S/N 317800

CYLINDERS: STAGE #1 - 8.25" BORE, 5" STROKE c/w VVCP
s/n 312562, 900 PSIG MOP, 900 PSIG MAWP, THROW #2

STAGE #1 - 8.25" BORE, 5" STROKE c/w VVCP
s/n 315336, 900 PSIG MOP, 990 PSIG MAWP, THROW #4

STAGE #2 - 6.5" BORE, 5" STROKE, c/w VVCP
s/n 317241, 1250 PSIG MOP, 1375 PSIG MAWP, THROW #3

STAGE #2 - 4.5" BORE, 5" STROKE c/w VVCP
s/n 315401, 1600 PSIG MOP, 1760 PSIG MAWP, THROW #1

DRIVER: WAUKESHA F3521GSI
s/n 317562

COOLER: AIR-X-CHANGERS 120EH-86-18

EJW - 4" PIPE STUB DESIGN 14 PSIG @ 300/-20°F
s/n 904514.1

TAW - 2" PIPE STUB DESIGN 14 PSIG @ 300/-20°F
s/n 904514.2

IC-1 - 4"-300#RF DESIGN 655 PSIG @ 300/-20°F
s/n 904514.3 CRN K2766.2

IC-2 - 4"-600#RF DESIGN 1000 PSIG @ 300/-20°F
s/n 904514.4 CRN H9805.2

AC - 3"-600#RF DESIGN 1315 PSIG @ 300/-20°F
s/n 904514.5 CRN K1297.2

PANEL: SPARTAN ELECTRONIC CONTROL PANEL
s/n DF-2300

VESSELS:

FILTER/
SEPARATOR: 18" O.D.x 86" s/s, 740 PSIG @ 100/-20°F
s/n V-270-3, CRN K2558.2

STAGE #1 SCRUBBER: 30" O.C.x 120" s/s, 1200 PSIG @ 300/-20°F
s/n V-279-1, CRN K2812.2

STAGE #2 SCRUBBER: 18" O.D.x 60" s/s, 655 PSIG @ 300/-20°F
s/n V-271-3, CRN K2408.2

STAGE #3 SCRUBBER: 16" O.D.x 60" s/s, 1000 PSIG @ 300/-20°F
s/n V-272-3, CRN K2409.2

BOTTLES:

STAGE #1 SUCTION: 18" O.D.x 60" s/s, 740 PSIG @ 100/-20°F
s/n V-273-3, CRN K2410.2

STAGE #1 DISCHARGE: 16" O.D.x 60" s/s, 655 PSIG @ 300/-20°F
s/n V-274-3, CRN K2411.2

STAGE #2 SUCTION: 16" O.D.x 32" s/s, 655 PSIG @ 300/-20°F
s/n V-275-3, CRN K2412.2

STAGE #2 DISCHARGE: 14" O.D.x 28" s/s, 1000 PSIG @ 300/-20°F
s/n V-276-3, CRN K2413.2

STAGE #3 SUCTION: 12 3/4" O.D.x 24" s/s, 1000 PSIG @ 300/-20°F
s/n V-291-1, CRN K3127.2

STAGE #3 DISCHARGE: 12 3/4" O.D.x 24" s/s, 1315 PSIG @ 300/-20°F
s/n V-280-1, CRN K2813.2

RELIEF VALVES:

STAGE #1 DISCHARGE: CONSOLIDATED 1910Hc SET @ 655 PSIG @ 250°F
2"-300#RF x 3"-150#RF
s/n 90C3721

STAGE #2 DISCHARGE: CONSOLIDATED 1912Fc SET @ 1000 PSIG @ 250°F
1 1/2"-600#RF x 2"-150#RF
s/n 90C2043

STAGE #3 DISCHARGE: CONSOLIDATED 1912Ec SET @ 1315 PSIG @ 250°F
1"-600#RF x 2"-150#RF
s/n 89C2815

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
as required by the provisions of the ASME Code rules, Section VIII, Division 1

(A) 2686806

- Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
- Manufactured for COREXCANA LTD., 21ST FLOOR, 444-5 AVENUE SW, CALGARY, AB T2P 2T8
(name and address of purchaser)
- Location of Installation LSD 16-11-82-9-W6
(name and address)
- Type: HORIZONTAL V270-3 K-2558.2 V270 R-1 N/A 1990
(horiz. or vert., tank) (mfr's. serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)
- 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 Code, Section VIII, Division 1: 1989
N/A N/A N/A
(addenda (date)) (Code Case no.) (special service per UG-120(d))
- Shell: SA-516-70 .625" 0.0625" 18" 10'-1"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
- Seams: SNGL BUTT SPOT 85% N/A N/A SNGL BUTT SPOT ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
- Heads: (a) SA-516-70N (CLOSURE) (b) SA-516-70
(mat'l. (spec. no., grade)) (mat'l. (spec. no., grade))

	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	END N8	.390"	.0625"			2 TO 1				CONCAVE
(b)	END	.596"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

(mat'l. spec. no., gr., size, no.)

- MAWP: 740 at max. temp. 100° Min design metal temp. -20° at 740 Hydro., ~~max.~~ or ~~vac.~~ test pressure 1110
(psi) (°F) (°F) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET	1	6"	PIPE	SA106B	.718"	WELD	WELD	SHELL
OUTLET	1	8"	PIPE	SA106B	.906"	WELD	WELD	SHELL
SUMP	2	4"	TOL	SA105	.674"	WELD	WELD	SHELL
LSH, LC, INSP	5	2"	TOL	SA105	N/A	WELD	WELD	SHELL

- Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached SHELL, WELD
(yes or no) (no.) (no.) (describe) (where & how)

- Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: QUICK CLOSURE HEAD, SN 8814, MODCO IND. INC. CRN-02937.2
(name of part, item number, mfr's. name and identifying stamp)

SUCTION FILTER, SEPARATOR - VOLUME = 14.9 FT P.S.V. ON PIPING PER UG-125 (H)
RADIOGRAPHED PER UW11 (B)
IMPACT TEST EXEMPT PER UG-20 (F)

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. 24013 expires 04, 19 92
Date Nov. 30, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Nov. 2, 19 91 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date Nov. 2, 19 91 Signed [Signature] Commissions Alto
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)

Form L-4

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

1. Manufactured and certified by CERCO COMPRESSORS LTD., 3625-68th. STREET S.E., CALGARY, AB T2H 2H6
(Name and address of manufacturer)

2. Manufactured for COREXANA LTD., 21 FLOOR, 444 - 5 AVE. SW, CALGARY, ALBERTA T2P 2T8
(Name and address of purchaser)

3. Location of installation LSD 16-11-82-9-W6
(Name and address)

4. Type HORIZONTAL V270-3 K2558.2 V270 R-1 N/A N/A
Horizontal type only Vertical type only (Cylindrical) (Conical) (Screw type) (Other type)

[illegible]

Date NOVEMBER 30, 1990 Co. Name CHERCO COMPRESSORS LTD. Signed [Signature]
Date 1990/1/2 Signed [Signature] Commissions GOVERNMENT OF ALBERTA

This Form (E00118) is available from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM FOR MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)

as required by the provisions of the ASME Code rules, Section VIII, Division 1

(A) 2686600

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444-5 AVENUE SW, CALGARY, AB T2P 2T8
(name and address of purchaser)
3. Location of Installation LSD 16-11-82-9-W6
(name and address)
4. Type: VERTICAL V271-3 K-2408.2 V271 R-0 N/A 1990
(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 Code, Section VIII, Division 1: 1989
(year)
- N/A N/A N/A
(addenda (date)) (Code Case no.) (special service per UG-120(d))
6. Shell: SA-516-70 .500" 0.0625" 18" 7'- 5 1/4"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: SNGL BUTT SPOT 85% N/A N/A SNGL BUTT SPOT ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. (spec. no., grade)) (mat'l. (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	.476"	.0625"			2 TO 1				CONCAVE
(b)	BOTTOM	.470"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

(mat'l. spec. no., gr., size, no.)

9. MAWP: 655 at max. temp. 300° Min design metal temp. -20° at 655 Hydro. ~~xxx~~ or ~~xxx~~ test pressure 983
(psi) (°F) (°F) (psi)

10. Nozzles, Inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET, OUTLET	2	4"	PIPE	SA106B	.531"	WELD	WELD	SHELL
DRAIN	1	1 1/2"	PIPE	SA106B	.281"	WELD	WELD	HEAD
LSH, LC, INSP.	3	2"	TOL	SA105	N/A	WELD	WELD	SHL, HEAD
AUTO DUMP	1	1"	TOL	SA105	N/A	WELD	WELD	SHELL

11. Supports: Skirt YES Lugs N/A Legs N/A Other N/A Attached HEAD, WELD
(yes or no) (no.) (no.) (describe) (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

3 (name of part, item number, mfr's. name and identifying stamp)

SUCTION SCRUBBER - VOLUME = 10 FT P.S.V. ON PIPING PER UG-125 (H)

RADIOGRAPHED PER UW11 (B)

IMPACT TEST EXEMPT PER UG-20 (F)

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. 24013 expires 04, 19 92

Date Nov. 21, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT

of ALBERTA have inspected the component described in this Manufacturers' Data Report on Dec. 17, 1990 and

state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Dec 17, 1990 Signed [Signature] Commissions ALBERTA
(Authorized Inspector) (Nat'l. Bd. (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

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 3625-68th. STREET S.E., CALGARY, AB T2H 2H6

2. Manufactured for COREXCANA LTD., 21 FLOOR, 444 - 5 AVENUE SW, CALGARY, ALBERTA T2P 2T8

3. Location of installation LSD 16-11-82-9-W6

4. Type	VERTICAL	V271-3	K-2408.2	V271 R-0	N/A	1990
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Data Report
Item Number

Remarks

PURPOSE	NO.	DIAM.	TYPE	MAT'L	NOM THK'S	RIENF.	ATTACHED	LOCATION
LG	2	3/4"	TOL	SA105	N/A	WELD	WELD	SHELL

Date NOVEMBER 21, 1990 Co. Name ~~CHERCO COMPRESSORS LTD.~~ Signed *[Signature]*

Date Dec. 17/90 Signed [Signature] Commissioner GOVERNMENT ALBERTA

This Form (E00118) is available from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444-5 AVENUE SW, CALGARY, AB T2P 2T8
(name and address of purchaser)
3. Location of Installation LSD 16-11-82-9-W6
(name and address)
4. Type: VERTICAL V272-3 K-2409.2 V272 R-0 N/A 1990
(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 Code, Section VIII, Division 1: 1989
(year)
6. Shell: SA106B .843" 0.0625" 16" 7'-5"
(mat'l. spec. no., grade) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: SEAMLESS N/A 85% N/A N/A SNGL BUTT SPOT ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. spec. no., grade) (mat'l. 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	.824"	.0625"			2 TO 1				CONCAVE
(b)	BOTTOM	.824"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

9. MAWP: 1000 at max. temp. 300° Min design metal temp. -20° at 1000 Hydro. xxx or xxx test pressure 1500
(psi) (°F) (°F) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET, OUTLET	2	3"	PIPE	SA106B	.600"	WELD	WELD	SHELL
DRAIN	1	1 1/2"	PIPE	SA106B	.281"	WELD	WELD	HEAD
LSH, LC, INSP.	3	2"	TOL	SA105	N/A	WELD	WELD	SHL, HEAD
AUTO DUMP	1	1"	TOL	SA105	N/A	WELD	WELD	SHELL

11. Supports: Skirt YES Lugs N/A Legs N/A Other N/A Attached HEAD, WELD
(yes or no) (no.) (no.) (describe) (where & how)
12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A
(name of part, item number, mfr's. name and identifying stamp)

3
SUCTION SCRUBBER - VOLUME = 7 FT P.S.V. ON PIPING PER UG-125 (H)
RADIOGRAPHED PER UW11 (B)
IMPACT TEST EXEMPT PER UG-20 (F)

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 24013 expires 04, 19 92
Date Nov. 21, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Dec. 17, 1990 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Dec. 17, 1990 Signed [Signature] Commissions Alta
(Authorized Inspector) (Nat'l. Bd. (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

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 3625-68th. STREET S.E., CALGARY, AB T2H 2H6

2. Manufactured for COREXCANA LTD., 21 FLOOR, 444 - 5 AVENUE SW, CALGARY, ALBERTA T2P 2T8

3. Location of installation LSD 16-11-82-9-W6

4. Type VERTICAL V272-3 K-2409.2 V272 R-0 N/A 1990

Item Number

Results

PURPOSE	NO.	DIAM.	TYPE	MAT'L	NOM THK'S	RIENF.	ATTACHED	LOCATION
LG	2	3/4"	TOL	SA105	N/A	WELD	WELD	SHELL

Date NOVEMBER 21, 1990 Co. name CHERCO COMPRESSORS LTD. Signed [Signature]

Date Dec. 17/1990 Signed [Signature] Commissioner GOVERNMENT ALBERTA

This Form (E00118) is available from the ASME Order Dept., 22 Law Drive, Box 2303, Fairfield, NJ 07007-2303

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
as required by the provisions of the ASME Code rules, Section VIII, Division 1

A 2686813

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)

2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444-5 AVENUE SW, CALGARY, AB T2P 2T8
(name and address of purchaser)

3. Location of Installation LSD 16-11-82-9-W6
(name and address)

4. Type: HORIZONTAL V273-3 K-2410.2 V273 R-0 N/A 1990
(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 Code, Section VIII, Division 1: 1989
(year)
N/A N/A N/A
(addenda (date)) (Code Case no.) (special service per UG-120(d))

6. Shell: SA-516-70 .625" 0.0625" 18" 7'-11 5/8"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: SNGL BUTT SPOT 85% N/A N/A SNGL BUTT SPOT ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. ("F)) (lime (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)

8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. (spec. no., grade)) (mat'l. (spec. no., grade))

	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	END	.613"	.0625"			2 TO 1				CONCAVE
(b)	END N1	.591"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

(mat'l., spec. no., gr., size, no.)

9. MAWP: 740 at max. temp. 100° Min design metal temp. -20° at 740 Hydro. ~~pxxx~~ or ~~xxxx~~ test pressure 1110
(psi) ("F) ("F) (psi) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET	1	8"	PIPE	SA106B	.906"	WELD	WELD	HEAD
OUTLET, INSP	2	6"	PIPE	SA106B	.432"	SA-516-70	WELD	SHELL
TI, PI	2	3/4"	TOL	SA105	N/A	WELD	WELD	SHELL
DRAIN	1	1"	TOL	SA105	N/A	WELD	WELD	SHELL

11. Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached N/A
(yes or no) (no.) (no.) (describe) (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

3

(name of part, item number, mfr's. name and identifying stamp)

SUCTION BOTTLE - VOLUME = 9.3 FT P.S.V. ON PIPING PER UG-125 (H)

RADIOGRAPHED PER UW11 (B)

IMPACT TEST EXEMPT PER UG-20 (F)

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. 24013 expires 04, 19 92
Date DEC 06, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Jan 2, 1991 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Jan 2, 1991 Signed [Signature] Commissions Algo to
(Authorized Inspector) (Nat'l. Bd. (incl. endorsement(s) state, prov. and no.)

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) (8) 2686820
as required by the provisions of the ASME Code rules, Section VIII, Division 1

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444-5 AVENUE SW, CALGARY, AB T2P 2T8
(name and address of purchaser)
3. Location of Installation LSD 16-11-82-9-W6
(name and address)
4. Type: HORIZONTAL V274-3 K-2411.2 V274 R-0 N/A 1990
(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 Code, Section VIII, Division 1: 1989
(year)
- N/A N/A N/A
(addenda (date)) (Code Case no.) (special service per UG-120(d))
6. Shell: SA106B .500" 0.0625" 16" 6'- 6 3/4"
(mat'l. spec. no., grade) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: SEAMLESS N/A 100% N/A N/A SNGL BUTT FULL ONE
(long. (welded, dbl., singl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., singl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. spec. no., grade) (mat'l. spec. no., grade)

	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	END	.459"	.0625"			2 TO 1				CONCAVE
(b)	END N2	.456"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

(mat'l., spec. no., gr., size, no.)

9. MAWP: 655 at max. temp. 300° Min design metal temp. -20° at 655 Hydro., ~~xxx~~ or ~~xxx~~ test pressure 983
(psi) (°F) (°F) (psi) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET, INSP.	2	6"	PIPE	SA106B	.432"	SA106B	WELD	SHELL
OUTLET	1	4"	PIPE	SA106B	.337"	WELD	WELD	HEAD
TSH, TI, PRES.	5	3/4"	TOL	SA105	N/A	WELD	WELD	SHL, NOZZLE
DRAIN	1	1"	TOL	SA105	N/A	WELD	WELD	SHELL

11. Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached N/A
(yes or no) (no) (no) (describe) (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

3 (name of part, item number, mfr's. name and identifying stamp)

DISCHARGE BOTTLE - VOLUME = 7.4 FT P.S.V. ON PIPING PER UG-125 (H)
RADIOGRAPHED PER UW11 (A) 5B
IMPACT TEST EXEMPT PER UG-20 (F)

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. 24013 expires 04, 19 92
Date DEC. 06, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Dec. 2, 1991 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Jan. 2, 1991 Signed [Signature] Commissions Alberta
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
as required by the provisions of the ASME Code rules, Section VIII, Division 1

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444-5 AVENUE SW, CALGARY, ALBERTA T2P 2T8
(name and address of purchaser)
3. Location of Installation LSD 16-11-82-9-W6
(name and address)
4. Type: HORIZONTAL V275-3 K-2412.2 V275 R-0 N/A 1990
(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 Code, Section VIII, Division 1: 1989
(year)
- N/A N/A N/A
(addenda (date)) (Code Case no.) (special service per UG-120(d))
6. Shell: SA106B .500" 0.0625" 16" 3'- 9 5/8"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: SEAMLESS N/A 100% N/A N/A SNGL BUTT FULL* ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. (spec. no., grade)) (mat'l. (spec. no., grade))

	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	END C5	.486"	.0625"			2 TO 1				CONCAVE
(b)	END C4	.481"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

(mat'l., spec. no., gr., size, no.)

9. MAWP: 655 at max. temp. 300° Min design metal temp. -20° at 655 Hydro., POSS or NO test pressure 983
(psi) (°F) (°F) (psi) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET	1	4"	PIPE	SA106B	.531"	WELD	WELD	SHELL
OUTLET, INSP	1	6"	PIPE	SA106B	.432"	SA106B	WELD	SHELL
TI, PI	2	3/4"	TOL	SA105	N/A	WELD	WELD	HEAD
DRAIN	1	1 1/2"	TOL	SA105	N/A	WELD	WELD	SHELL

11. Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached N/A
(yes or no) (no.) (no.) (describe) (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

3

(name of part, item number, mfr's. name and identifying stamp)

SUCTION BOTTLE - VOLUME = 4.6 FT P.S.V. ON PIPING PER UG-125 (H)

*RADIOGRAPHED PER UW11 (A) 5B

IMPACT TEST EXEMPT PER UG-20 (F)

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. 24012 expires 04, 19 92
Date DEC 06, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Jan. 2, 91 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Jan. 2, 91 Signed [Signature] Commissions [Signature]
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)

(A) 2686875

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
as required by the provisions of the ASME Code rules, Section VIII, Division 1

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444-5 AVENUE SW, CALGARY, AB T2P 2T8
(name and address of purchaser)
3. Location of installation LSD 16-11-82-9-W6
(name and address)
4. Type: HORIZONTAL V276-3 K-2413.2 V276 R-1 N/A 1990
(horiz. or vert., tank) (mlr'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 Code, Section VIII, Division 1: 1989
N/A N/A N/A (year)
(addenda (date)) (Code Case no.) (special service per UG-120(d))
6. Shell: SA-516-70 .750" 0.0625" 14" 3'- 2 1/4"
(mat'l. spec. no., grade) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: SEAMLESS N/A 100% N/A N/A SNGL BUTT FULL ONE
(long. (welded, dbl., singl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., singl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. spec. no., grade) (mat'l. spec. no., grade)
- | | Location (top, bottom, ends) | Minimum Thickness | Corrosion Allowance | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Pressure (convex or concave) |
|-----|------------------------------|-------------------|---------------------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) | END L | .730" | .0625" | | | 2 TO 1 | | | | CONCAVE |
| (b) | END R | .740" | .0625" | | | 2 TO 1 | | | | CONCAVE |
- If removable, bolts used (describe other fastenings): _____
(mat'l., spec. no., gr., size, no.)
9. MAWP: 1000 at max. temp. 300° Min design metal temp. -20° at 1000 Hydro., per or xxx test pressure 1500
(psi) (°F) (°F) (psi) (psi) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET	1	6"	PIPE	SA106B	.432"	SA106B	WELD	SHELL
OUTLET, INSP	1	4"	PIPE	SA106B	.531"	WELD	WELD	SHELL
TI, PI	3	3/4"	TOL	SA105	N/A	WELD	WELD	SHL, NOZZLE
DRAIN	1	1"	TOL	SA105	N/A	WELD	WELD	SHELL

11. Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached N/A
(yes or no) (no.) (no.) (describe) (where & how)
12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

3 (name of part, item number, mlr's. name and identifying stamp)

DISCHARGE BOTTLE - VOLUME = 2.9 FT P.S.V. ON PIPING PER UG-125 (H)

RADIOGRAPHED PER UW11 (A) 5B

IMPACT TEST EXEMPT PER UG-20 (F)

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. 24013 expires 04, 19 92
Date DEC 06, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Jan 3, 1991 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Jan 3, 1991 Signed [Signature] Commissions Alberta
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
as required by the provisions of the ASME Code rules, Section VIII, Division 1

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444 - 5 AVENUE SW, CALGARY, AB T2P 2T8
(name and address of purchaser)
3. Location of installation LSD - 16-11-82-9-W6H
(name and address)
4. Type: VERTICAL V279-1 K-2812.2 V279 R-0 N/A 1990
(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 Code, Section VIII, Division 1: 1989
(year)
N/A N/A N/A
(addenda (date)) (Code Case no.) (special service per UG-120(d))
6. Shell: SA-516-70 1.250" 0.0625" 30" 12'- 6 5/8"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: SNGL BUTT SPOT 85% N/A N/A SNGL BUTT NTI ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. (spec. no., grade)) (mat'l. (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	1.215"	.0625"			2 TO 1				CONCAVE
(b)	BTM	1.215"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

(mat'l., spec. no., gr., size, no.)

9. MAWP: 1200 at max. temp. 300° Min design metal temp. -20° at 1200 Hydro., ~~over~~ or ~~comb.~~ test pressure 1800
(psi) (°F) (°F) (psi) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET, OUTLET	2	6"	PIPE	SA106B	.864"	SA-516-70	WELD	SHELL
DRAIN	1	2"	PIPE	SA106B	.343"	WELD	WELD	HEAD
LSH, LC, VENT, INSP	4	2"	TOL	SA105	N/A	WELD	WELD	SHL, HEAD
LG	2	3/4"	TOL	SA105	N/A	WELD	WELD	SHELL

11. Supports: Skirt YES Lugs N/A Legs N/A Other N/A Attached HEAD, WELD
(yes or no) (no.) (no.) (describe) (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

3

(name of part, item number, mfr's. name and identifying stamp)

SUCTION SCRUBBER - VOLUME = 44 FT P.S.V. ON PIPING PER UG-125 (H)

RADIOGRAPHED PER UW11 (B)

IMPACT TEST EXEMPT PER UCS-66 (A)

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 24018 expires 04, 19 92
Date DEC 17, 90 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Dec. 17, 1990 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 DEC. 17, 19 90 Signed [Signature] Commissions [Signature]
(Authorized Inspector) (Nat'l. Bd. (incl. endorsement(s) state, prov. and no.)

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)

as required by the provisions of the ASME Code rules, Section VIII, Division 1

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)

2. Manufactured for COREXCANA, 21ST FLOOR, 444 - 5 AVENUE SW, CALGARY, ALBERTA T2P 2T8
(name and address of purchaser)

3. Location of Installation LSD - 16-11-82-9-W6M
(name and address)

4. Type: HORIZONTAL V280-1 K-2813.2 V280 R-2 N/A 1990
(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 Code, Section VIII, Division 1: 1989
N/A N/A N/A N/A (year)

6. Shell: SA106B .750" 0.0625" 14" 3' - 9 7/8"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: SEAMLESS N/A 100% N/A N/A SNGL BUTT FULL * ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)

8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. (spec. no., grade)) (mat'l. (spec. no., grade))

	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	END	.706"	.0625"			2 TO 1				CONCAVE
(b)	END N2	.707"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

(mat'l., spec. no., gr., size, no.)

9. MAWP: 1315 at max. temp. 300° Min design metal temp. -20° at 1315 Hydro. xxx or xxx test pressure 1973
(psi) (°F) (°F) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET, INSP	1	4"	PIPE	SA106B	.432"	SA106B	WELD	SHELL
OUTLET, INSP	1	3"	PIPE	SA106B	.437"	WELD	WELD	HEAD
DRAIN	1	1"	TOL	SA105	N/A	WELD	WELD	SHELL
TSH, TI, PRES.	3	3/4"	TOL	SA105	N/A	WELD	WELD	SHL, NOZZLE

11. Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached N/A
(yes or no) (no.) (no.) (describe) (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

3 (name of part, item number, mfr's. name and identifying stamp)

DISCHARGE BOTTLE - VOLUME = 2.9 FT P.S.V. ON PIPING PER UG-125 (H)

*RADIOGRAPHED PER UW11 (A) 5B

IMPACT TEST EXEMPT PER UG-20 (F)

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. 24013 expires 04, 19 92
Date JAN 02, 91 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Jan 3, 1991 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Jan 3, 1991 Signed [Signature] Commissions [Signature]
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) as required by the provisions of the ASME Code rules, Section VIII, Division 1

1. Manufactured and certified by CHERCO COMPRESSORS LTD., 8625-68 STREET SE, CALGARY, AB T2H 2H6
(name and address of manufacturer)
2. Manufactured for COREXCANA LTD., 21ST FLOOR, 444 - 5 AVENUE SW, CALGARY, ALBERTA T2P 2T8
(name and address of purchaser)
3. Location of Installation LSD - 16-11-82-9-W6M
(name and address)
4. Type: HORIZONTAL V291-1 K-3127.2 V291 R-0 N/A 1990
(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 Code, Section VIII, Division 1: 1989
(year)
6. Shell: SA106B .687" 0.0625" 12" 2'-11 3/4"
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: SEAMLESS N/A 100% N/A N/A SNGL BUTT FULL * ONE
(long. (welded, dbl., sngl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., sngl. lap, butt)) (RT (spot, partial, or full)) (no. of courses)
8. Heads: (a) SA-516-70 (b) SA-516-70
(mat'l. (spec. no., grade)) (mat'l. (spec. no., grade))

	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	END C5	.715"	.0625"			2 TO 1				CONCAVE
(b)	END C4	.715"	.0625"			2 TO 1				CONCAVE

If removable, bolts used (describe other fastenings):

9. MAWP: 1000 at max. temp. 300° Min design metal temp. -20° at 1000 Hydro. 1000 or Comb. test pressure 1500
(psi) (°F) (°F) (psi) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
INLET	1	3"	PIPE	SA106B	.300"	WELD	WELD	SHELL
OUTLET, INSP	1	4"	PIPE	SA106B	.337"	SA106B	WELD	SHELL
DRAIN, INSP	1	1"	TOL	SA105	N/A	WELD	WELD	HEADS
TI, PRES.	2	3/4"	TOL	SA105	N/A	WELD	WELD	SHL, NOZZLE

11. Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached N/A
(yes or no) (no.) (no.) (describe) (where & how)
12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A
(name of part, item number, mfr's. name and identifying stamp)
- 3
SUCTION BOTTLE - VOLUME = 2.2 FT P.S.V. ON PIPING PER UG-125 (H)
*RADIOGRAPHED PER UW11 (A) 5B
IMPACT TEST EXEMPT PER UG-20 (F)

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. 24013 expires 04, 1992
Date JAN 02, 1991 Name CHERCO COMPRESSORS LTD. Signed [Signature]
(manufacturer) (representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CHERCO COMPRESSORS LTD. at 8625-68 STREET SE, CALGARY, AB
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of ALBERTA and employed by GOVERNMENT
of ALBERTA have inspected the component described in this Manufacturers' Data Report on Jan. 3, 1991, and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 Jan 3, 1991 Signed [Signature] Commissions Alberta
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)



COMPLETION OF CONSTRUCTION

LABOUR
General Safety Services Division
Boilers Branch

DECLARATION

NOTE: This declaration shall be completed and signed by the person responsible, in whole or in part, for the construction, installation, testing and inspection of the pressure piping system and forwarded to the Chief Inspector.

- (1) Owner of Plant: COREXCANA LTD., 21st FLOOR, 444-5 AVENUE S.W., CALGARY, AB
T2P 2T8
(Name and Address)
- (2) Engineering Contractor: C.I.D.L. PROJECTS LTD.
#190, 7330 FISHER STREET S.E., CALGARY, AB T2H 2H8
(Name and Address)
- (3) Type of Plant: COMPRESSOR (UNIT NO. CC-208)
- (4) Location of Plant: LSD - 16-11-82-9-W6M
(Sec, TWP, Rge)
- (5) Description of Pressure Piping System(s): ALL PIPE SA106B SEAMLESS
208-1 & 2A, D.P. 1200 PSI @ 300'F Hydro'd @ 1800 PSI
208-2B, 3,4,5, & 6, D.P. 655 PSI @ 300'F Hydro'd @ 983 PSI
208-7, 8 & 9, D.P. 1000 PSI @ 300'F Hydro'd @ 1500 PSI
208-10, 11A & 11B, D.P. 1315 PSI @ 300'F Hydro'd @ 1973 PSI
208-12A & 12B, ATMOSPHERIC AIR TEST @ 100 PSI

STATEMENT OF COMPLIANCE

I, the undersigned, declare that the described pressure piping system, approved under design registration number NOT APPLICABLE, complies in all respects with the regulations for construction, installation, testing and inspection and that all pressure piping test data reports have been delivered to the owner.


(Signature)

QUALITY CONTROL MANAGER
(Title)

January 08, 1991
(Date)

CHERCO COMPRESSORS LTD., 8625 - 68 STREET S.E., CALGARY, AB T2H 2H6
(Company) (Address)



LABOUR
General Safety Services Division
Boilers Branch

CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

Field Construction ☐

Shop Construction ☒

1. Constructed By: CHERCO COMPRESSORS LTD. Prov. Quality Program No. AQP-1142
Address: 8625 - 68th. STREET S.E., CALGARY, AB T2H 2H6 Expiry Date: MARCH 21/92
2. Constructed For: COREXCANA LTD., 21st FLOOR, 444-5 AVE., S.W., CALGARY, AB T2P 2T8 Job No.: CC-208
Name and Address
3. Owner and Location of Installation: SAME AS ABOVE LSD - 16-11-82-9-W6M
4. Piping Design Provincial Registration No.: NOT APPLICABLE
5. Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: 970.2 CC1 and CC3
6. Code — ANSI/ASME B31.1 ☐ B31.3 ☒ B31.5 ☐

Drg. No. and Line No.	Process (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp. F	Test Press. PSI	Test Medium	Mat'l Spec. & Grade	Pipe Dia. & Sch.	Flange Prim. Rating	H.T./Preheat Temp.	R.T. %	Other NDE
208-8A 208-1	GAS	1200	300	1800	H2O	SA106B	6" XH	600 RF	N/A	15%	VISUAL
2A	GAS	1200	300	1800	H2O	SA106B	6" XH	600 RF	N/A	15%	VISUAL
2B	GAS	655	300	983	H2O	SA106B	6" STD	600 RF	N/A	15%	VISUAL
3	GAS	655	300	983	H2O	SA106B	8" STD	300 RF	N/A	15%	VISUAL
4	GAS	655	300	983	H2O	SA106B	4" XH	300 RF	N/A	15%	VISUAL
5	GAS	655	300	983	H2O	SA106B	4" STD	300 RF	N/A	15%	VISUAL
6	GAS	655	300	983	H2O	SA106B	4" STD	300 RF	N/A	15%	VISUAL
7	GAS	1000	300	1500	H2O	SA106B	4" XH	600 RF	N/A	15%	VISUAL

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

Drg. No.	Line No.	HEAT NO.	Fabricator
208-8A	208-1 & 2A	315137 (6" XH)	CHERCO COMPRESSORS LTD.
	208-2B	N78583 (6" STD)	208-4 & 7 HT. NO. N78502 (4" XH)
	208-3	4087D (8" STD)	208-5 & 6 HT. NO. 6450A (4" STD)

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 Provincial Boilers and Pressure Vessels Act and Regulations, and applicable ANSI/ASME Piping Code(s).

Date Jan 08, 1991

CHERCO COMPRESSORS LTD.

Contractor

by [Signature]

(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 ANSI/ASME Piping Codes and Provincial Boilers and Pressure Vessels Act and Regulations.

Date _____

Date _____

Owner's/Client's Inspector

Provincial Inspector
(BOILER EXTERNAL PIPING ONLY)



LABOUR

General Safety Services Division
Boilers BranchCONSTRUCTION DATA REPORT FOR
PIPING SYSTEMSField Construction ☐Shop Construction ☒

1. Constructed By: CHERCO COMPRESSORS LTD. Prov. Quality Program No. AQP-1142
Address: 8625 - 68th. STREET S.E., CALGARY, AB T2H 2H6 Expiry Date: MARCH 21/92
2. Constructed For: COREXCANA LTD., 21st FLOOR, 444-5 AVE. S.W., CALGARY, AB T2P 2T8 Job No.: CC-208
Name and Address
3. Owner and Location of Installation: SAME AS ABOVE LSD - 16-11-82-9-W6M
4. Piping Design Provincial Registration No.: NOT APPLICABLE
5. Provincial Reg. Welding Proc. Nos. and Company WPS Nos. Used: 970.2 CC1 and CC3
6. Code — ANSI/ASME B31.1 ☐ B31.3 ☒ B31.5 ☐

Drg. No. and Line No.	Process (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp. F	Test Press. PSI	Test Medium	Mat'l Spec. & Grade	Pipe Dia. & Sch.	Flange Prim. Rating	H.T./Preheat Temp.	R.T. %	Other NDE
208-8B 208-8	GAS	1000	300	1500	H2O	SA106B	3" STD	600 RF	N/A	15%	VISUAL
9	GAS	1000	300	1500	H2O	SA106B	3" STD	600 RF	N/A	15%	VISUAL
10	GAS	1315	300	1973	H2O	SA106B	3" XH	600 RF	N/A	15%	VISUAL
11A	GAS	1315	300	1973	H2O	SA106B	3" STD	600 RF	N/A	15%	VISUAL
11B	GAS	1315	300	1973	H2O	SA106B	3" STD	600 RF	N/A	15%	VISUAL
12A	ATMOSPHERE	N/A	N/A	100	AIR	SA106B	3" STD	150 RF	N/A	15%	VISUAL
12B	ATMOSPHERE	N/A	N/A	100	AIR	SA106B	3" STD	150 RF	N/A	15%	VISUAL

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

Drg. No.	Line No.	HEAT NO.	Fabricator
208-8B	208-8, 9 & 11A	05728 (3" STD)	CHERCO COMPRESSORS LTD.
	208-11B, 12A & 12B	05728 (3" STD)	208-7 HT. NO. 60008 (1 1/2" XH)
	208-10	30290 (3" XH)	208-12A & 4 HT. NO. 05719 (2" XH)

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 Provincial Boilers and Pressure Vessels Act and Regulations, and applicable ANSI/ASME Piping Code(s).

Date Jan. 08, 1991CHERCO COMPRESSORS LTD.

Contractor

by [Signature]

(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 ANSI/ASME Piping Codes and Provincial Boilers and Pressure Vessels Act and Regulations.

Date Date

Owner's/Client's Inspector

Provincial Inspector
(BOILER EXTERNAL PIPING ONLY)