

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

1. Manufactured and certified by SMITHCO Engineering, Inc., 6211 S. 39th W. Ave., Tulsa, OK 74132
(Name and address of manufacturer)

2. Manufactured for Schedule A, Inc. Houston, Texas 77036
(Name and address of purchaser)

Location of installation Schedule A, Inc. Vernon Parish, La
(Name and address)

4. Type Horiz(Non-Cir) 97B-0541-A 97B-0541 7144 1997
(Horiz. or vert. tank) (Mfg'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 1995
Year

to A95 2157
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: Tube & Plug Sheets: SA-516 GR-70 Fr .750/ Bk .750 .0625 Fr 0' 3.7500"/Bk 0' 3.7500" 13' 3.3750"
Mat. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Corner Joint 100
Long. (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot or Full) Eff(%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Spot., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Mall. (a) Covers: SA-516 GR-70 (b) Mall. (b) Ends: SA-516 GR-70
(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	Stile to Pressure (Convex or Concave)
(a)	Fr/Bk	.375/.375	.0625						3.3750/3.0625 x 159.3750	Flat
(b)	Fr/Bk	.375/.375	.0625						3.3750/3.0625 x 7.3750/7.3750	Flat

If removable, bolts used (describe other fastenings) _____
(Matl., 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 450 psi

10. Nozzles, inspection and safety valve openings:

Purpose	No.	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
Outlet, Drain								
Outlet	2/2	4"300/XS	RFWN	SA-105/SA-106B	.337	Integral	UW-16.1(a)	Front Head
Vent/Drain	2	1.0/1.0	6000CPLG	SA-105		Integral	UW-16.1(a)	Back Head
Temp/Press	8	.75/1.75	6000CPLG	SA-105		Integral	UW-16.1(a)	Front Head

11. Supports: Skirts No Lugs _____ Legs 4 Other _____ Attached Welded to covers
(Yes or 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:
Flanged Nozzle, 972413-2,3,7&11, Lewis Industries Corp., "U"
(Name of part, item number, Mfg's name and identifying stamp)

Impact testing exempt per: UG-20(f) Item: AC-267 Service: REFRIGERANT COND
 Stay Plate: Front(2)SA-516 GR-70 .3750 x .0625 x 158.4375 x 3.4375 Stay Plate: Back(1)SA-516 GR-70 .3750 x .0625 x 158.4375
 Tubes: SA-214 WLD- 274 x 1.00" x .060" x 42.0000'-Straight
 Constructed in conformance with appendix 28

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. 4175 expires February 28th, 20 00
 Date 07-17-97 Co. name SMITHCO Engineering, Inc. Signed J. P. Phillips
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by SMITHCO Engineering, Inc. at Tulsa, Oklahoma
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Oklahoma and employed by Delta Loyds Insurance Company - Houston, Texas
 have inspected the component described in this Manufacturer's Data Report on 7-31 19 97, 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 loss of any kind arising from or connected with this inspection.
 Date 7-31-97 Signed [Signature] Commissions NB7003,A,OK355
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

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

1. Manufactured and certified by SMITHCO Engineering, Inc., 6211 S. 39th W. Ave., Tulsa, OK 74132
(Name and address of manufacturer)

2. Manufactured for Schedule A, Inc. Houston, Texas 77036
(Name and address of purchaser)

Location of installation Schedule A, Inc. Vernon Parish, La
(Name and address)

4. Type Horiz(Non-Cir) 97B-0541-B 97B-0541 7145 1997
(Horiz. or vert. tank) (Mfg'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 1995
Year

to A95 2157
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: Tube & Plug Sheets: SA-516 GR-70 Fr .750/Bk .750 .0625 Fr 0' 3.7500"/Bk 0' 3.7500" 13' 3.3750"
Matl. (Spec. No., Grade) Norm. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Corner Joint 100 --- --- --- --- 1
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Ell(%), H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Matl. (a) Covers: SA-516 GR-70 (b) Matl. (b) Ends: SA-516 GR-70
(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)	Fr/Bk	.375/.375	.0625						3.3750/3.0625 x 159.3750	Flat
(b)	Fr/Bk	.375/.375	.0625						3.3750/3.0625 x 7.3750/7.3750	Flat

If removable, bolts used (describe other fastenings) _____
(Matl., 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 450 psi

10. Nozzles, inspection and safety valve openings:

Purpose (Outlet, Drain)	No.	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
Outlet	2/2	4"300/XS	RFWN	SA-105/SA-106B	.337	Integral	UW-16.1(a)	Front Head
Vent/Drain	2	1.0/1.0	6000CPLG	SA-105		Integral	UW-16.1(a)	Back Head
Temp/Press	8	.75/.75	6000CPLG	SA-105		Integral	UW-16.1(a)	Front Head

11. Supports: Skirts No Lugs _____ Legs 4 Other _____ Attached Welded to covers
(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:
Flanged Nozzle, 972413-1,8,9&12, Lewis Industries Corp., "U"
(Name of part, item number, Mfg's name and identifying stamp)

Impact testing exempt per: UG-20(f) Item: AC-267 Service: REFRIGERANT COND
 Stay Plate: Front(2)SA-516 GR-70 .3750 x .0625 x 158.4375 x 3.4375 Stay Plate: Back(1)SA-516 GR-70 .3750 x .0625 x 158.4375
 Tubes: SA-214 WLD- 274 x 1.00" x .060" x 42.0000'-Straight
 Constructed in conformance with appendix 28

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. <u>4175</u> expires <u>February 28th</u> , 20 <u>(X)</u>	
Date <u>07-17-97</u>	Co. name <u>SMITHCO Engineering, Inc.</u> Signed <u>J. Phillips</u> <small>(Manufacturer) (Representative)</small>
CERTIFICATE OF SHOP INSPECTION	
Vessel constructed by <u>SMITHCO Engineering, Inc.</u> at <u>Tulsa, Oklahoma</u>	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of <u>Oklahoma</u> and employed by <u>Delta Lloyds Insurance Company - Houston, Texas</u>	
have inspected the component described in this Manufacturer's Data Report on <u>7-31</u> 19 <u>97</u> , 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 loss of any kind arising from or connected with this inspection.	
Date <u>7-31-97</u> Signed <u>[Signature]</u> Commissions <u>NB7003,A,OK355</u> <small>(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)</small>	

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

1. Manufactured and certified by SMITHCO Engineering, Inc., 6211 S. 39th W. Ave., Tulsa, OK 74132
(Name and address of manufacturer)

2. Manufactured for Schedule A, Inc. Houston, Texas 77036
(Name and address of purchaser)

3. Location of installation Schedule A, Inc. Vernon Parish, La
(Name and address)

4. Type Horiz(Non-Cir) 97B-0541-C 97B-0541 7146 1997
(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 1995
Year

6. Shell: Tube & Plug Sheets: SA-516 GR-70 Fr .750/Bk .750 .0625 Fr 0' 3.7500"/Bk 0' 3.7500" 13' 3.3750"
Matl. (Spec. No., Grade) (Nom. Thk. (in.) (Corr. Allow. (in.) (Diam. I.D. (ft. & in.) (Length (overall) (ft. & in.)

7. Seams: Corner Joint 100 --- --- --- ---
Long. (Welded, Dbl. Singl., Lap, Butt) R.T. (Spot or Full) Eff(%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl. Spot, Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Matl. (a) Covers: SA-516 GR-70 (b) Matl. (b) Ends: SA-516 GR-70
(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	Stile In Pressure (Convex or Concave)
(a)	Fr/Bk	.375/.375	.0625						3.3750/3.0625 x 159.3750	Flat
(b)	Fr/Bk	.375/.375	.0625						3.3750/3.0625 x 7.3750/7.3750	Flat

If removable, bolts used (describe other fastenings) _____
(Matl., 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 450 psi

10. Nozzles, inspection and safety valve openings:

Purpose (Outlet, Drain)	No.	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
Outlet	2/2	4"300/XS	RFWN	SA-105/SA-106B	.337	Integral	UW-16.1(a)	Front Head
Vent/Drain	2	1.0/1.0	6000CPLG	SA-105		Integral	UW-16.1(a)	Back Head
Temp/Press	8	.75/.75	6000CPLG	SA-105		Integral	UW-16.1(a)	Front Head

11. Supports: Skirts No Lugs _____ Legs 4 Other _____ Attached Welded to covers
(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:
Flanged Nozzle, 972413-4.5.6&10, Lewis Industries Corp., "U"
(Name of part, item number, Mfr's name and identifying stamp)

Impact testing exempt per: UG-20(f) Item: AC-267 Service: REFRIGERANT COND
Stay Plate: Front(2)SA-516 GR-70 .3750 x .0625 x 158.4375 x 3.4375 Stay Plate: Back(1)SA-516 GR-70 .3750 x .0625 x 158.4375
Tubes: SA-214 WLD- 274 x 1.00" x .060" x 42.0000'-Straight
Constructed in conformance with appendix 28

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. <u>4175</u> expires <u>February 28th</u> , 20 <u>00</u>	
Date <u>07-17-97</u>	Co. name <u>SMITHCO Engineering, Inc.</u> Signed <u>J. Ph. [Signature]</u> <small>(Manufacturer) (Representative)</small>
CERTIFICATE OF SHOP INSPECTION	
Vessel constructed by <u>SMITHCO Engineering, Inc.</u> at <u>Tulsa, Oklahoma</u>	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of <u>Oklahoma</u> and employed by <u>Delta Lloyds Insurance Company - Houston, Texas</u>	
have inspected the component described in this Manufacturer's Data Report on <u>7-30</u> 19 <u>97</u> , 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 loss of any kind arising from or connected with this inspection.	
Date <u>7-30-97</u> Signed <u>[Signature]</u> Commissions <u>NB7003,A,OK355</u> <small>(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)</small>	

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by LEWIS INDUSTRIES CORPORATION, 816 N. 5TH ST., COLLINSVILLE, OK 74021
(Name and address of Manufacturer)
 2. Manufactured for SMITHCO ENG., INC., 6312 S. 39TH W. AVE., TULSA, OK 74131
(Name and address of Purchaser)

Location of installation UNKNOWN

4. Type: FLANGED NOZZLE 972413 1 THRU 12
(Description of vessel part (shell, two piece head, tube bundle)) (Mfg's. serial No.)

N/A 97B0541 SMITHCO ENG., INC. 1997
(Nat'l. Bd. No.) (Drawing No.) (Mfg's. serial No.) (Year built)
 5. ASME Code, Section VIII, Div. 1 1993 N/A N/A
(Edition and Addenda (date)) (Code Case No.) (Special Service per UG-120(d))

6. Shell (a) No. of course(s): N/A (b) Overall length (ft & in.): N/A

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length, ft & in.	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
	N/A													
	N/A													
	N/A													

7. Heads: (a) NONE (b) NONE
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	N/A													
(b)	N/A													

If removable, bolts used (describe other fastening) NONE
(Mat'l Spec. No., Grade, Size, No.)

8. MAWP N/A N/A psi at max. temp. N/A N/A °F. Min. design metal temp. N/A °F at N/A psi.
(internal) (external) (internal) (external)

9. Impact test N/A
(Indicate yes or no and the component(s) impact tested)

10. Hydro., pneu., or comb. test press. NONE Proof test NONE

11. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
IN OR OUT	12	4"300#	RFWN	SA106B	SA105	.337	0	WELD	WELDED	WELDED	FLANGE
TEMP/PRESS	24	3/4"	CPLG		SA105	6000#	0	WELD	WELDED	WELDED	NOZZLE

12. Supports: Skirt NO Lugs 0 Legs 0 Others NONE Attached _____
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: 1) OAL OF FLANGE AND NOZZLE 912)-7"
2) NO DESIGN FUNCTION PERFORMED BY LEWIS INDUSTRIES CORPORATION
3) CERTIFIED TO MATERIAL AND WORKMANSHIP ONLY

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 24,989 Expires AUGUST 3, 19 99

Date 6/23/97 Name LEWIS INDUSTRIES CORPORATION Signed George E. Lewis
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

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 OK and employed by OLD REPUBLIC INSURANCE COMPANY of DALLAS, TEXAS have inspected the pressure vessel part described in this Manufacturer's Data Report on 06/16, 19 97, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part 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 part 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 6/23/97 Signed Michael R. Hope Commissions OK572
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by LEWIS INDUSTRIES CORPORATION, 816 N. 5TH ST., COLLINSVILLE, OK 74021
(Name and address of Manufacturer)
 2. Manufactured for SMITHCO ENG., INC., 6312 S. 39TH W. AVE., TULSA, OK 74131
(Name and address of Purchaser)

Location of installation UNKNOWN
 4. Type: FLANGED NOZZLE 972413 1 THRU 12
(Description of vessel part (shell, two piece head, tube bundle)) (Name and address)

N/A 97B0541 SMITHCO ENG., INC. 1997
(Nat'l. Bd. No.) (Drawing No.) (Mfg's. serial No.) (ICRN)
 5. ASME Code, Section VIII, Div. 1 1993 N/A N/A
(Edition and Addenda (date)) (Code Case No.) (Year built)

6. Shell (a) No. of course(s): N/A (b) Overall length (ft & in.): N/A
(Special Service per UG-120(d))

No.	Course(s)		Material Spec./Grade or Type	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment					
	Diameter, in.	Length, ft & in.		Nom.	Corr.	Type	Full.	Spot.	None	Eff.	Type	Full.	Spot.	None	Eff.	Temp.	Time
	<u>N/A</u>																
	<u>N/A</u>																
	<u>N/A</u>																

7. Heads: (a) NONE (b) NONE
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A					
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full.	Spot.	None	Eff.	
(a)	<u>N/A</u>																
(b)	<u>N/A</u>																

If removable, bolts used (describe other fastening) NONE
(Mat'l Spec. No., Grade, Size, No.)

8. MAWP N/A N/A psi at max. temp. N/A N/A °F. Min. design metal temp. N/A °F at N/A psi.
(internal) (external) (internal) (external)

9. Impact test N/A
(Indicate yes or no and the component(s) impact tested)

10. Hydro., pneu., or comb. test press. NONE Proof test NONE

11. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
<u>IN OR OUT</u>	<u>12</u>	<u>4"300#</u>	<u>RFWN</u>	<u>SA106B</u>	<u>SA105</u>	<u>.337</u>	<u>0</u>	<u>WELD</u>	<u>WELDED</u>	<u>WELDED</u>	<u>FLANGE</u>
<u>TEMP/PRESS</u>	<u>24</u>	<u>3/4"</u>	<u>CPLG</u>		<u>SA105</u>	<u>6000#</u>	<u>0</u>	<u>WELD</u>	<u>WELDED</u>	<u>WELDED</u>	<u>NOZZLE</u>

12. Supports: Skirt NO Lugs 0 Legs 0 Others NONE Attached _____
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: 1) OAL OF FLANGE AND NOZZLE 912)-7"
2) NO DESIGN FUNCTION PERFORMED BY LEWIS INDUSTRIES CORPORATION
3) CERTIFIED TO MATERIAL AND WORKMANSHIP ONLY

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 24,989 Expires AUGUST 3, 19 99

Date 6/23/97 Name LEWIS INDUSTRIES CORPORATION Signed George E. Lewis
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

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 OK and employed by OLD REPUBLIC INSURANCE COMPANY of DALLAS, TEXAS have inspected the pressure vessel part described in this Manufacturer's Data Report on 06/16, 19 97, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part 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 part 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 6/23/97 Signed Michael R. Pope Commissions OK572
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by LEWIS INDUSTRIES CORPORATION, 816 N. 5TH ST., COLLINSVILLE, OK 74021
(Name and address of Manufacturer)
 2. Manufactured for SMITHCO ENG., INC., 6312 S. 39TH W. AVE., TULSA, OK 74131
(Name and address of Purchaser)

3. Location of installation UNKNOWN
(Name and address)
 4. Type: FLANGED NOZZLE 972413 1 THRU 12
(Description of vessel part (shell, two piece head, tube bundle)) (Mfg's. serial No.)

N/A 97B0541 SMITHCO ENG., INC. 1997
(Nat'l. Bd. No.) (Drawing No.) (Year built)
 5. ASME Code, Section VIII, Div. 1 1993 N/A N/A
(Edition and Addenda (date)) (Code Case No.) (Special Service per UG 120(d))

6. Shell (a) No. of courses(s): N/A (b) Overall length (ft & in.): N/A

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length, ft & in.	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
	N/A													
	N/A													
	N/A													

7. Heads: (a) NONE (b) NONE
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	N/A													
(b)	N/A													

If removable, bolts used (describe other fastening) NONE
(Mat'l Spec. No., Grade, Size, No.)

8. MAWP N/A N/A psi at max. temp. N/A N/A °F. Min. design metal temp. N/A °F at N/A psi.
(internal) (external) (internal) (external)

9. Impact test N/A
(Indicate yes or no and the component(s) impact tested)

10. Hydro., pneu., or comb. test press. NONE Proof test NONE

11. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
IN OR OUT	12	4"300#	RFWN	SA106B	SA105	.337	0	WELD	WELDED	WELDED	FLANGE
TEMP/PRESS	24	3/4"	CPLG		SA105	6000#	0	WELD	WELDED	WELDED	NOZZLE

12. Supports: Skirt NO Lugs 0 Legs 0 Others NONE Attached _____
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: 1) OAL OF FLANGE AND NOZZLE 912)-7"
2) NO DESIGN FUNCTION PERFORMED BY LEWIS INDUSTRIES CORPORATION
3) CERTIFIED TO MATERIAL AND WORKMANSHIP ONLY

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 24,989 Expires AUGUST 3, 19 99

Date 6/23/97 Name LEWIS INDUSTRIES CORPORATION Signed George E. Lewis
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

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 OK and employed by OLD REPUBLIC INSURANCE COMPANY of DALLAS, TEXAS have inspected the pressure vessel part described in this Manufacturer's Data Report on 06/16, 19 97, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part 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 part 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 6/23/97 Signed Michael R. Pope Commissions OK572
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)