

100233

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Exell, Incorporated 690 Franklin Street Beaumont, TX
(Name and address of manufacturer)

2. Manufactured for PD Glycol P.O. Box 3785 Beaumont, TX
(Name and address of purchaser)

3. Location of installation PD Glycol Gulf States Road Beaumont, TX
(Name and address)

4. Type Horizontal 7827 - 7827-0 726 1992
(Type or vers. code) (Mfg.'s serial No.) (CAN) (Drawing) (Mat'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. 1989
Year

A-90 - -
Addenda (date) Code Case No. Special service per UG-120(d)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-516-70 .375 .125 2-9 14-8.875
Mat'l (Spec. No., Grade) Nom. Thk (in) Corr. Allow (in) Diam. I.D. (ft & in) Length (Overall) (ft & in)

7. Seams: Db1. Spot 85 None
Long (DB1, Sngl) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)

Db1./Sngl. Spot 3
Time Girth (DB1, Sngl) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70 (b) Mat'l. Spot
(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)	-	.500" Nom.	.125	-	-	-	-	-	-	Concave
(b)	-	.500" Nom.	.125	-	-	-	-	-	-	Concave

If removable, bolts used (describe other fastenings)

(Mat'l, Spec. No., Gr., Size, No.)

9. Type of Jacket - - Proof Test - -

10. Jacket Closure - - If bar, give dimensions - - If bolted, describe or sketch.
(Describe as ogee & weld bar, etc)

11. MAWP 158/FV psi at max. temp. 202 °F. Min. design metal temp. -20 °F at 25/FV psi.
 Hydro., pneu., or comb. test press. 350 psi

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SA-516-70 35.125 1.8125 .1875 Welded
Stationary Mat'l (Spec. No., Gr) Diam (in) (Subject to pressure) Nom. Thk (in) Corr. Allow (in) Attach (Welded, Bolted)

SA-516-70 35.125 1.8125 .1875 Welded
Floating Mat'l (Spec. No., Gr) Diam (in) Nom. Thk (in) Corr. Allow (in) Attach

13. Tubes: SA-214 .750 .085MW 876 Straight
Mat'l (Spec. No., Gr) O.D. (in) Nom. Thk (in or Gauge) Number Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: SA-516-70 .375 .0625 2-9 2-1.500
Mat'l (Spec. No., Grade) Nom. Thk (in) Corr. Allow (in) Diam. I.D. (ft & in) Length (Overall) (ft & in)

15. Seams: Db1. Spot 85 None
Long (DB1, Sngl) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)

Db1. Spot 2
Time Girth (DB1, Sngl) R.T. (Spot, Partial, or Full) No. of Courses

16. Heads: (a) Mat'l. SA-516-70 (b) Mat'l. Spot
(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)	End	2.250	.0625	-	-	-	-	-	38.00"	-
(b)	End	.375" Nom.	.0625	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings) SA-193-B7, .750, 40
(Mat'l, Spec. No., Gr., Size, No.)

17. MAWP 133 psi at max. temp. 170 °F. Min. design metal temp. -20 °F at 80 psi.
 Hydro., pneu., or comb. test press. 239 psi.

(12/87)

This Form (E00108) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings: UG-125 Note 39

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diag. or Size	Type	Matl.	Nom. Thk.	Reinforcement Mat.	How Attached	Location
Vnt. & Drn.	2	3/4-6M	CPLG	SA-105	-	Integral	Welded	-
Press Conn.	7	3/4-6M	CPLG	SA-105	-	Integral	Welded	-
Thermowell	7	3/4-6M	CPLG	SA-105	-	Integral	Welded	-
Drain	1	1-150	RFLWN	SA-105	-	Integral	Welded	-
Outlet	2	3-150	RFWN	SA-106-B	.438	Integral	Welded	-
Outlet	2	4-150	RFWN	SA-106-B	.438	Integral	Welded	-
Inlet	1	20-150	RFWN	SA-106-B	.500	Integral	Welded	-
Out./In.	2	8-150	RFWN	SA-106-B	.500	Integral	Welded	-

19. Supports: Skirt No Lugs 0 Legs 0 Other Saddles Attached Welded to Shell
(Yes or no) (No) (No) (Describe) (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: _____
(Name of part, item number, mfg.'s name and identifying stamp)

One (1) Drying Column Condenser

Item #23-08-039

Impacts not required per UG-20f

CERTIFICATE OF SHOP COMPLIANCE

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

"U" Certificate of Authorization No. 14,155 expires September 4, 1992
 Date 2-6-92 Co. name Exell, Incorporated Signed R. J. O'Brien
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by _____ at _____
 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 Texas and employed by HSBI & I Company
 of Hartford, CT

_____ have inspected the pressure vessel described in this Manufacturer's Data Report on 2-6, 1992, 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 the 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 2-6-92 Signed [Signature] Commissions N.B. 8570
(Authorized Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19_____
 Date _____ Co. name _____ Signed _____
(Assembler that certified and constructed field assembly) (By Representative)

CERTIFICATE OF FIELD ASSEMBLY 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 _____ and employed by _____

_____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. 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 _____ Signed _____ Commissions _____
(Authorized Inspector) (Nat'l Board (incl. and/or the State, Prov., and No.)