12TK202

Form No. 1 Manufacturers' Data Report on an Unfired Pressure Vessel
As Required by the Provisions of the API-ASME Code

For Vessels having parts built under different sections (W, EW, R, and F), use appropri[illegible] item headings for each part

1 Manufactured by Wyatt Metal & Boiler Works Dallas, Texas (Name and address of the manufacturer) Mfrs. Shop Job No. 2715

2 Manfactured for O. L. Olson Company, Houston, Texas (Name and address of the Purchaser) Purchaser's Order No. 24248

3 Type Horizontal (Horizontal or vertical—when in service) Vessel No. 56D2715-2 (Mfrs. Serial No.) To be installed in Texas (State and State No.) Date built 7/56 (Month and Year)
HSB # 53207

4 Have mill test reports been checked on all the plates or seamless vessel forgings entering this unfired pressure vessel? yes
Do the chemical and physical properties of all plates or seamless vessel forgings meet the requirements of the Code? yes (See chemical and physical report)

5 Shell or Drums: No. 1 Diameter 11 (or width) ft. 4 in. Length over all 91 ft. 4 in.
Studs: 73,000
Nuts:

6 Stamps on Shell Plates or seamless Forgings Case 1056 (Brand and lowest tensile strength) Rivets _____ Bolts: _____ (ASTM or other specifications for carbon steel or alloy)

7 W[1]—Shell Plates 1/2 in. Style of Seams: Longitudinal Sgl. V Dbl. Butt (Riveted or fusion-welded, and type)
EW—Shell Plates _____ in.
R—Shell Plates _____ in. Butt Strap Thickness: Inside _____ in. Outside _____ in.
F—Shell _____ in. (Thickness)

8 W—Joints Radiographed Yes Vessel Stress-Relieved No (Yes or No) Efficiency of Joint 90 per cent
R—Diameter of Rivet Holes _____ in. Pitch of Rivets X X Efficiency of Joint _____ per cent (Vessel as built)

9 W—Girth Joints _____
R—Girth Joints _____ Diameter Rivet Holes _____ in. Pitch of Rivets _____ in. No. of Courses 11 (Riveted or fusion-welded, and type)

10 Outer Shell _____ in. (If jacketed, thickness) Style of Seams: Longitudinal _____ Girth _____ Length of Section or Course _____ ft. _____ in. (Riveted or fusion-welded, and type)

11 Heads: (thickness) 7/16" Nom. in. Radius of dish _____ in. Radius of knuckle _____
~~Flat, dished, elliptical, internal~~ _____ Ratio of ellipse axis _____
~~Conical~~ Hemispherical _____ Included angle if conical _____ Side to pressure { Top or one end Concave / Bottom or opposite end _____
If removable, head bolts used _____ (Number and size) or method of fastening _____ (Describe or sketch on separate sheet)

12 W—Radiographic Inspection

	All or Per Cent	Thickness	
a Longitudinal Joints	100%	1/2 in.	Heads 100% X-Ray 7/16" plate
b Circumferential Joints	4" ea. way at	— in.	intersection

W—Stress-Relieving	Heads	Ring Nos.	Controlling Thickness	Temp of Vessel	Time Temp Is Held
a If part of vessel only			in.	F	hr. min.
b If entire vessel			in.	F	hr. min.

13 Nozzle Outlets in Heads: SEE ATTACHED SCHEDULE OF OPENINGS No. ___ Size ___ Material of Nozzle or Reinforcement ___ How attached CW IS & OS
Nozzle Outlets in Shell: No. ___ Size ___ Material of Nozzle or Reinforcement ___ How attached CW IS & OS (Riveted, welded, etc.)

14 Handholes or Sight Holes _____ (Number, size, and location)

15 Manholes: In Heads _____ Reinforcement _____
In Shell 1— 16" 150# (Inspection) Reinforcement Pad CW IS & OS
(Number) (Size and location of each, distance off center of head) (Riveted, welded, etc., outside only or also inside)

16 Method of supporting vessel Saddles (Lugs, skirt, or ring if on end; or saddles or lugs if horizontal)

17 a[2] Allowable working pressure at atmospheric temperature (See W-, R-, and F-525) 121 psi
b Hydrostatic test pressure 182 psi
c Hydrostatic test pressure when hammer test 152 psi
d Proof test pressure if applied _____ psi
e Location of yield if yielding occurred _____
f[2] Hydrostatic test stress in longitudinal joints (W vessels only) 24,661 psi
g Allowable operating stress (Two-thirds stress obtained in f) 16,449 psi

18 Constructed for pressure of 121 psi. With specified operating temperature of 450 F. With corrosion allowance of 0 in.

Remarks: 11' 4" O.D. x 91' 4" S-S Feed Tank
Item No. TK-2 Dwg. No. E-9494

[1] W—Welded, EW—Welded External Pressure, R—Riveted, F—Seamless Forged.
[2] When there are shell sections of different thicknesses, each section shall be treated separately.

WE CERTIFY the above data to be correct and that all details of material, construction, and workmanship on this unfired pressure vessel conform to the API-ASME Code for Unfired Pressure Vessels for Petroleum Liquids and Gases.

Date 7/26/1956 Signed Wyatt Metal & Boiler Works (Manufacturer) By _____
Hartford Steam Boiler
7/26/1956 Checked by _____ (Inspector) For Insp. & Insurance Co.

- MANUFACTURED BY -

WYATT METAL & BOILER WORKS

HOUSTON - Wyatt's - DALLAS

SERIAL NUMBER 56-D-2715-2

A S
M E

DESIGN PRES. 121 P.S.I.

H.S.B. NUMBER 53207

DESIGN TEMP. 450 °F.

STRESS RELIEVED NO RADIOGRAPHED PART MONTH BUILT 6 YEAR BUILT 1956

ITEM NO. TK-2