

(For Vessels having parts built under different sections (W, EW, R, and F), use appropriate item headings for each part.)

- 1 Manufactured by **Chicago Bridge & Iron Company - Greenville, Penna.** Mfr. Ship Job No. **6-5914**  
(Name and address of the manufacturer)
- 2 Manufactured for **The Texas Company - Westville, New Jersey** Purchaser's Order No. **NY49090-J**  
(Name and address of the purchaser)
- 3 Type **Horizontal** Vessel No. **G-796** To be installed in **New Jersey** Date built **1954**  
(Horizontal or vertical—when in service) (Mfr. Serial No.) (State and State No.) (Month and Year)
- 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 Forms Nos. 2 and 3 and other chemical and physical reports)
- 5 Shell or Drums: No. **1** Diameter **12** ft. **0** in. Length over all **78** ft. **7 1/8** in.  
(or width) **55,000** psi
- 6 Stamps on Shell Plates or seamless forgings **A285-C Fbx.** Rivets. Bolts **A307-B**  
(Brand and lower tensile strength) (A.S.T.M. or Other Specifications Carbon Steel or Alloy) **A194-2H**
- 7 W—Shell Plates **9/16** in.  
EW—Shell Plates **9/16** in.  
R—Shell Plates **9/16** in. Butt Strap Thickness **9/16** in. Style of Seams: **Double Butt - Fusion Weld**  
F—Shell **9/16** in. Inside **9/16** in. Outside **9/16** in. (Riveted or Fusion-Welded and Type)
- 8 W—Joints Radiographed **SPOT** Vessel Stress Relieved **No** (Yes or No) Efficiency of Joint **80** per cent  
R—Diameter of Rivet Holes **9/16** in. Pitch of Rivets **4** in. Efficiency of Joint **80** per cent  
(Vessel as built)
- 9 W—Girth joints **Double Butt - Fusion Welds**  
R—Girth Joints **Double Butt - Fusion Welds** Diameter Rivet Holes **9/16** in. Pitch of Rivets **4** in. No. of Courses **8**  
(Riveted or Fusion-Welded and Type)
- 10 Outer Shell **9/16** in. Style of Seams: **Longitudinal** Girth **Double Butt - Fusion Weld** Length of Section or Course **78** ft. **7 1/8** in.  
(If jacketed, thickness) (Riveted or Fusion-Welded and Type)
- 11 Heads: (thickness) **3/8** in. Radius of dish **Dished** in. Radius of knuckle **3/8** in.  
Flat, dished, elliptical, integral **Dished** Ratio of ellipse axis **1.5**  
Conical, Hemispherical **Hemisph.** Included angle if conical **90** deg. Side to pressure **Concave**  
If removable, head bolts used **or method of fastening** (Describe or sketch on separate sketch sheet)
- 12 W—Radiographic Inspection All or Per Cent Thickness  
a Longitudinal Joints **Spot 9/16-3/8** in.  
b Circumferential Joints **Spot 9/16** in.  
W—Stress Relieving Heads Ring Nos. Controlling Thickness Temp of Vessel Time Temp is Held  
a If part of vessel only **9/16** in. **9/16** in. **9/16** in. **9/16** in. **9/16** in. **9/16** in.  
b If entire vessel **9/16** in. **9/16** in. **9/16** in. **9/16** in. **9/16** in. **9/16** in.
- 13 Nozzle Outlets in Heads: No. **2** Size **1 1/2** in. Material of Nozzle or Reinforcement **A285-C** How attached **Welded**  
Nozzle Outlets in Shell: No. **2** Size **1 1/2** in. Material of Nozzle or Reinforcement **A285-C** How attached **Welded**  
(Riveted, Welded, etc.)
- 14 Handholes or Sight Holes: (Number, size, and location)
- 15 Manholes: In Heads: Reinforcement **Welded - Outside Only**  
In Shell **2 - 20"** Reinforcement **Welded - Outside Only**  
(Number) (Size and location of each, distance off center of head) (Riveted, welded, etc., outside only or also inside)
- 16 Method of supporting vessel **2 Saddles**  
(Lugs, skirt, or ring if on end, or saddles or lugs if horizontal)
- 17 a Allowable working pressure at atmospheric temperature (See W, R, and F-525) **75** psi  
b Hydrostatic test pressure **75** psi  
c Hydrostatic test pressure when hammer tested **75** psi  
d Proof test pressure if applied **75** psi  
e Location of yield if yielding occurred **75** psi  
f Hydrostatic test stress in longitudinal joints (W vessels only) **75** psi  
g Allowable operating stress (Two-thirds stress obtained in f) **75** psi
- 18 Constructed for pressure of **75** psi. With specified operating temperature of **450** F. With corrosion allowance of **.05** in.

Remarks **Vessel to be used for Butane Storage.**

W—Welded, EW—Welded External Pressure, R—Riveted, F—Seamless Forged.

\*Indicate location and size on Form 2 or 3.

\*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 **9-1-54** Signed **Chicago Bridge & Iron Company**  
(Manufacturer)By **L. C. Smith**19. Checked by **L. C. Smith**  
(Inspector)

WEST OUTSIDE TANK EP-217

Computations for Pressures & Stresses  
Form No.1 for Manufacturers' Report on an Unfired Pressure  
Vessel as Required by the Provisions of the API-ASME Code

	9/16" Shell	3/8" Heads
17. (a) Allowable Working Pressure (psi) at Atmospheric Temp.	86	112
(b) Hydrostatic Test Pressure (psi)	129	129
(c) Hydrostatic Test Pressure (psi) when Hammer Tested	108	108
(f) Hydrostatic Test Stress (psi) in Longitudinal Joints	16,500	16,100
(g) Allowable Operating Stress (psi) 2/3 of Stress in (f)	11,000	10,800



ALTERATIONS & REPAIRS TO PRESSURE VESSELS

1. Manufactured By Chicago Bridge & Iron Company Order No C.B.&I. C-5914  
Texaco NY-49090-J
  2. Manufactured for Texaco Inc., Eagle Point Plant
  3. Identification G-796 Butane Storage Blimp, Westville, New Jersey  
(vessel number, service, location)
  4. Design Conditions 75 psi 450 °F  
(pressure) (temperature)
  5. Description of Material Used  
Shell  
Head 1-dished plate p103 7'-4-25/32" long x 9'-5-9/32" diag. (dished  
Nozzles dimensions) Material - ASTM A-285 Gr.C F.B.Q. (see attached  
Flanges Phoenix Steel Corp. mill report).
  6. Stress Relieving None
- NOTE: Welds were ground smooth inside and outside and spot radiography performed.
7. Hydrostatic Test Pressure 112.5 p.s.i.
  8. Description of Alteration or Repair One sheet p103 (portion of south head)  
replaced due to suspected defects in the plate material.
  9. Reference Drawing EPTP 7-5519-B
  10. New Material Used Refer to Item 5 above.

All repairs were made in accordance with the ASME Unfired Pressure Vessel Code, Section VIII 1965 edition.

All welding was performed by welders qualified under Procedure PQ-1A.

WELDER

SYMBOL

W. R. West

W



# CERTIFICATE OF INSPECTION

I, the undersigned, an employee of Texaco Inc., Westville, New Jersey and authorized as an Inspector limited to the inspection of Code vessels used and owned by Texaco Inc. in the State of New Jersey and stamped with the A.P.I. - ASME Code stamp, (Letter of Authorization dated July 30, 1959 issued by the State of New Jersey, Department of Labor and Industry, Mechanical Inspection Bureau.) certify the above data to be correct and that all details of material, construction and workmanship of the alteration or repair to the subject vessel are in accordance with the requirements of the ASME Code Section VIII and IX.

I, the undersigned, also certify that the vessel described in this report has been inspected and subjected to the hydrostatic test of 112.5 psi, in accordance with Par. UG-99 of the ASME Code for Unfired Pressure Vessels.

Date 11-9 19 66

*G. L. Tennant*

**G. L. TENNANT**

Inspectors Signature