

FORM U- A 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

451115
99-05-03

Manufactured and certified by SUPERIOR FABRICATION, INC. 1703 S. MAIN STREET ELK CITY, OKLAHOMA 73644
(Name and address of manufacturer)

Manufactured for Petro Field Industries, Inc. #600, 1207 11th Ave SW, Calgary, Alberta Canada T3C 0M5
(Name and address of purchaser)

Location of installation Unknown
(Name and address)

Type Horizontal Tank No. 980577-1 CRN N-8753.2* Drawing No. D980577-A Wall Bd. No. 90 Year built 1999

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 the ASME Rules, Section VIII, Division 1. Year 1998

Code None Code Case No. None Special Service per UG-72(b) Direct Fired oil heater

Shell: Matl SA-516-70 Thick. .375" Cor. Allow. .0625" Diam. ID (ft. & in.) 10' 0" 00 Length (overall) (ft. & in.) 40' 0"

Seams: Type 1 Spot RT 85% None NA Type 1 Spot** 4
Long. (Welded, EN Sngl., Lap, Butt) RT (Spot or Full) Eff. (%) H. Temp. (F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) RT (Spot, Partial, or Full) No. of Courses

Heads: (a) Matl SA-516-70 (Spec. No., Grade) (b) Matl SA-516-70 (Spec. No., Grade)

Location (Top Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat (Thickness)	Side to Pressure (Concave/Convex)
Out. End	4375"	.0625"	NA	NA	2:1	NA	NA	NA	Concave
FT End	9375"	.0625"	NA	NA	2:1	NA	NA	NA	Concave

Removable bolts used (describe other fastenings) NA (Matl., Spec. No., Gr., Size No.) 8/11/3

MAWP 75 psi at max. temp. 350 °F
Min. design metal temp. -20 °F at 75 psi hydro, pneu. or comb. test pressure 113 psi

Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thick.	Reinforcement Matl.	How Attached	Location
Inlet	1	8"	RFLWN	SA-105	150#	Weld	UW-16.1 (d)	Shell
Water Outlet	1	4"	Pipe w/RFSO	SA-106-B/SA-105	3/80, 150#	Weld	UW-16.1 (d)	Head
Oil Outlet	1	4"	Pipe w/RFSO	SA-106-B/SA-105	3/80, 150#	Weld	UW-16.1 (d)	Head
Gas Outlet	1	4"	Pipe w/RFSO	SA-105	3/8, 150#	SA-516-70	UW-16.1 (d)	Head

1. Supports: Skirt No Lugs 0 Legs 2 Other NA Attached Welded to Shell w/pad
(Describe) (No.) (No.) (No.) (Describe) (Where and how)

2. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: Line No. 10 continued on U-4 form. Exempt from impact testing per UG-20(f). Tested in horizontal position.
(Name of part, item number, Mfg.'s name and identifying stamp)

* CRN Based on drawing no D970051-A ** Spot on head to shell seams only per UW-11(a)(5)(b)
Firetubes are removable parts designed for 75 psi external pressure at 850 deg F and no corrosion allowance, projecting into the vessel requiring them to be designed for external pressure, they are not separate chambers.

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. 20,800 Expires Aug. 25, 2000
Date 3-26-99 Co. name SUPERIOR FABRICATION, INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by SUPERIOR FABRICATION, INC. at Elk City, Oklahoma
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or State or Province of Oklahoma and employed by Commercial Union Insurance Company
have inspected the components described in this Manufacturer's Data Report on 3-26-99 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 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 3-26-99 Signed [Signature] Commissioners NB 7797A, OKLA 260
(Inspector) (Matl. Board (and undersigning) Reg. 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

451115

Manufactured and certified by: SUPERIOR FABRICATION, INC. 1703 S. MAIN STREET ELK CITY, OKLAHOMA 73644
(Name and address of manufacturer)

Manufactured for: Petro Field Industries, Inc. #800, 1207 11th Ave SW, Calgary, Alberta Canada T3C 0M5
(Name and address of purchaser)

Location of installation: Tier #1 Energy Unknown Edmonton
(Name and address)

Item: Horizontal Treater S60577-1
(Horizontal vessel or sphere) (Tank separator, heat exch., etc.) (Weld's serial No.)

Code: N-87-3 2* D980577-A 00 1996
(Code) (Drawing No.) (Mater. B. No.) (Year built)

Date Report: _____
 Form Number: _____
 Remarks: _____

Nozzles, inspection and safety valve openings.									
Purpose	No.	Diam	Type	Matl	Nom	Reinforcement	How	Location	
<small>(Inlet, Outlet, Drain)</small>		<small>or Size</small>			<small>Thk.</small>	<small>Matl</small>	<small>Attached</small>		
Anode	4	4"	RFLWN	SA-105	150#	Weld	UW-16.1 (d)	Shell	
LLSD, LSDH	2	4"	Pipe w/RFSO	SA-106-B/SA-105	3/8", 150#	Weld	UW-16.1 (d)	Head	
OR L.L.C.	1	4"	Pipe w/RFSO	SA-106-B/SA-105	S.80, 150#	Weld	UW-16.1 (d)	Head	
Drain	6	4"	RFLWN	SA-105	150#	Weld	UW-16.1 (d)	Shell	
Gauge Glass	4	2"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Head	
Pressure Ga.	1	2"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Head	
Thermostats	2	2"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Shell	
Thermometer	1	2"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Shell	
Relief	1	3"	RFLWN	SA-105	150#	Weld	UW-16.1 (d)	Shell	
Preheat Line	2	2"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Head	
Water L.L.C.	1	4"	Pipe w/RFSO	SA-106-B/SA-105	S.80, 150#	Weld	UW-16.1 (d)	Head	
Sample Port	5	1"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Head	
HPSU	1	2"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Shell	
Manway	2	24"	Pipe w/RFSO	SA-106-B/SA-105	S.70, 150#	SA-516-70	UW-16.1 (d)	Shell	
MW Covers	2	24"	FF ANSI Blwd	SA-105	150#	NA	Bolted w/(20) 1 1/4" SA-193-B7 Studs & SA-194-2H Nuts	MW Flanges	
Spare	3	3"	Pipe w/RFSO	SA-106-B/SA-105	3/8", 150#	Weld	UW-16.1 (d)	Shell	
Spare	1	2"	Pipe w/RFSO	SA-106-B/SA-105	XXH, 150#	Weld	UW-16.1 (d)	Shell	
FT Frame	2	24"	Plate	SA-516-70	1/2" & 1"	Weld	UW-16.1 (d)	Head	
FT Cover Flg.	2	24"	Plate	SA-516-70 Norm	1 3/4"	NA	Bolted w/(72) 3/4" SA-193-B7 Studs & SA-194-2H Nuts	FT Frame	
Firetube	2 (E PC)	24"	Pipe	SA-106-C	375"	NA	UW-16.1 (d)	FT Cover Flg	

Firetube 4 X 24" x 20'

Misc. attachments, one SA-36, two lift lugs SA-516-70, two davit brackets SA-36, two sample box lugs SA-36.

Certificate of Authorization: Type U No. 29,800 Expires 25-Aug 00 00

Date 3-26-99 Name SUPERIOR FABRICATION, INC. Signed Tom Shields
(Manufacturer) (Representative)

Date 3-26-99 Commission NB 7797A, OKLA 260
(Authorized Inspector) (Not valid incl. Endorsement, State, Province and)