

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single-Chamber, Completely Shop- or Field-Fabricated Vessels Only)
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by PERMIAN TANK & MFG., INC. 2701 WEST INTERSTATE 20 ODESSA, TEXAS 79766

2. Manufactured for MARATHON OIL PO BOX 22165 TULSA OK 74121-216
 (Name and address of Manufacturer)
 (Name and address of Purchaser)

3. Location of installation UNKNOWN
 (Name and address)

4. Type VERTICAL F-8172 ---- D-4109 Rev 2 1303 2018
 (Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Div. 1 2015 ---- ----
 [Edition and Addenda, if applicable (date)] (Code Case number) [Special service per UG-120(d)]

6. Shell SA-516-70 .500" ---- 47" 20'
 (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

Body Flanges on Shells										Bolting			
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location		Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material

7. Seams TYPE 1 NONE 70 ---- TYPE 1 NONE 70 2
 [Long. (welded, dbl., singl., lap, butt)] [R.T. (spot or full)] (Eff., %) (H.T. temp.) (Time, hr) [Girth (welded, dbl., singl., lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses)

8. Heads: (a) Material SA-516-70N (b) Material SA-516-RUN
 (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)	TOP	.5625"	N/A	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(b)	BOTTOM	.5625"	N/A	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE

Body Flanges on Heads										Bolting			
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached		Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)													
(b)													

9. MAWP 250 ---- 150 ----
 (Internal) (External) (Internal) (External)

Min. design metal temp. -20 at 250 Hydro., pneu., or comb. test pressure 325

Proof test N/A

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
WTR OUT	1	3"	FCPLG	SA-105	----	3000#	N/A	NONE	Welded	N/A	SHELL
GAS OUT	1	4"	HCPLG	SA-105	----	3000#	N/A	NONE	Welded	N/A	HEAD
GG/PI/SUPPLY	4	1/2"	FCPLG	SA-105	----	6000#	N/A	NONE	Welded	N/A	HEAD/SHELL
INLET	1	4"	RFWN	SA-106B	SA-105	.237"	N/A	NONE	Welded	TYPE 1	SHELL
MANWAY	1	18"	RFSO	SA-106B	SA-105	.938"	N/A	NONE	Welded	TYPE 1	SHELL
lv/rel/wtr l/c/sfty/dm	6	2"	FCPLG	SA-105	----	3000#	N/A	NONE	Welded	N/A	HEAD/SHELL

11. Supports: Skirt YES Lugs 2 Legs ---- Other ---- Attached BTM HD/WELD
 (Yes or no) (Number) (Number) (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:

(Name of part, item number, Manufacturer's name and identifying stamp)

NONE / EXEMPT PER UG-20(F) PVR-UG-125

FORM U-1A

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Manufactured by PERMIAN TANK & MFG., INC. 2701 WEST INTERSTATE 20 ODESSA, TEXAS 79766
Manufacturer's Serial No. F-8172 CRN ---- National Board No. 1303

CERTIFICATE OF SHOP/FIELD 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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization number 21,502
expires 09-22-2019.

Date 4-30-18 Co. name PERMIAN TANK & MFG., INC Signed David Rykhal
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by PERMIAN TANK & MFG., INC at 2701 WEST INTERSTATE 20 ODESSA TX 79766

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by The Hartford Steam Boiler Inspection. and Insurance Company. of CT

have inspected the component described in this Manufacturer's Data Report on 4-30-18, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 4-30-18 Signed David P. Hen Commissions N.B. 12612 TX 1723
(Authorized Inspector) (National Board Authorized Inspector Commission number)