

200467-1-6
Work Order Number

200467-1-6
Sales Order Number

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

Page 1 of 2

1. Manufactured and certified by Westerman, Inc., 245 North Broad Street, Bremen, Ohio, 43107, USA
(Name and address of Manufacturer)

2. Manufactured for APEX ENERGY, 6041 WALLACE RD, WEXFORD, Pennsylvania, 15090, USA
(Name and address of Purchaser)

3. Location of Installation UNKNOWN
(Name and address)

4. Type Vertical 108916 N/A 0B 108916 2024
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 2023/ N/A N/A N/A
(Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell: SA-516-70N 1.625 in 0 in 2' 6" (ID) 10'
(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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams: WELDED TYPE 1 FULL 100% 1100 °F 1.7 WELDED TYPE 1 FULL 100% 1
(Long. (welded, dbl., sngl., lap, butt)) (R.T.(spot or full)) (Eff.,%) (H.T. temp) (Time, hr) (Girth. (welded, dbl., sngl., lap, butt)) (R.T. (spot or full)) (Eff., %) (No. of courses)

8. Heads: (a) SA-516-70N (b) SA-516-70N
(Material spec. number, grade or type) (H.T. - time and temp.) (Material spec. number, grade or type) (H.T. - time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	TOP	1.52	N/A	N/A	N/A	2:1	N/A	N/A	N/A		X	N/A	N/A	N/A
(b)	BOTTOM	1.52	N/A	N/A	N/A	2:1	N/A	N/A	N/A		X	N/A	N/A	N/A

9. MAWP 2000 psi N/A at max. temp. 150 °F N/A
(Internal) (External) (Internal) (External)

Min. design metal temp. -20 °F at 2000 psi Hydro, pneu., or comb. test pressure HYDRO at 2600 psi

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	
INLET	1	4"	CL900RFLWN	N/A	SA-105N	1.125"	0	INHERENT	UW16-1(c)	N/A	SHELL
OUTLET	1	4"	CL900RFLWN		SA-105N	1.125"	0	INHERENT	UW16-1(c)		
SAND OUT	1	2"	CL900RFLWN		SA-105N	1.06"	0	INHERENT	UW16-1(c)		
PI	1	1/2"	6000#CPLG		SA-105	.33"	0	INHERENT	UW16-1(bb)		
PSV	1	1"	6000#CPLG		SA-105	.47"	0	INHERENT	UW16-1(bb)		
SPARE	1	1"	6000#CPLG		SA-105	.47"	0	INHERENT	UW16-1(bb)		

11. Supports: Skirt N/A Lugs 2 Legs 4 Other 4 WELD PADS, 2 SADDLES Attached SHELL, WELDED
(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:
Item 1, Fort Worth F & D Head Co. Sn 275643-2
(Name of part, item number, Manufacturer's name and identifying stamp)
PRESSURE RELEIVE IS RESPONSIBILITY OF END USER.

Manufactured by Westerman, Inc., 245 North Broad Street, Bremen, Ohio, 43107, USAManufacturer's Serial No. 108916CRN N/ANational Board No. 108916

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 4325

expires October 12, 2024Date 06/26/2024

Co. name

Westerman, Inc.

Signed

Charles W. Smith
(Representative)

(Manufacturer)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Westerman, Inc. at 245 North Broad Street, Bremen, Ohio, 43107, USA

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 Hartford, CThave inspected the component described in this Manufacturer's Data Report on June 13, 2024,

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 06/26/2024

Signed

David J. Ricker
(Authorized Inspector)

Commissions

14017

(National Board Authorized Inspector Commission number)

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by FORT WORTH F & D HEAD CO. 3040 E. PEDEN ROAD FORT WORTH, TEXAS 76179
(Name and address of Manufacturer)

2. Manufactured for BUILT FOR STOCK
(Name and address of Purchaser)

3. Location of installation UNKNOWN
(Name and address)

4. Type: 30" ID X 1.625" CYLINDERS X 10'-0" LONG
(Description of vessel part (shell, two-piece head, tube bundle)) 275643-1 THRU 2
(Manufacturer's serial number) 2024
(CRN)

5. ASME Code, Section VIII, Div. 1 2023 EDITION
(National Board number) XXX
(Drawing prepared by) N/A
(Year built)

6. Shell: (a) Number of course(s): 1 (b) Overall length 10'-0" (OAL)
(Special Service per UG-120(d))

Course(s)			Material		Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	30" ID	10'-0"	SA516-70N		1.625"		1	FULL						

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

(Material Spec. Number, Grade or Type) (H.T.-Time & Temp)										(Material Spec. Number, Grade or Type) (H.T.-Time & Temp)				
Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A			
	Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.	
(a)														
(b)														

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

8. MAWP N/A N/A at max. temp N/A N/A Min. design metal temp. N/A at N/A
(internal) (external) (internal) (external)

9. Impact test NONE at test temperature of N/A
(Indicate yes or no and the component(s) impact tested)

10. Hydro., pneu., or comb. test press. NONE Proof test N/A

11. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Location	
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange

12. Identification of part(s).

Name of part	Quantity	Line No.	Mfr's. Identification No.	Mfr's. Drawing No.	CRN	National Board No.	Year Built

13. Supports: Skirt XXX Lugs XXX Legs XXX Others N/A Attached XXX
(Yes or No) (Number) (Number) (Describe) (Where and How)

14. Remarks 1. NO DESIGN FUNCTION PERFORMED. 2. NO PRESSURE TESTING PERFORMED
3. WPS QUALIFIED WITH AND WITHOUT PWHT AND NORMALIZED CONDITIONS

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME BOILER AND PRESSURE VESSEL CODE Section VIII, Division 1. U or PRT Certificate of Authorization No. 58783 Expires 09/07/2026

Date 02/12/2024 Name FORT WORTH F&D HEAD COMPANY, INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by BUREAU VERITAS INSPECTION AND INSURANCE COMPANY of LYNN, MA have inspected the pressure vessel part described in this Manufacturer's Data Report on 2/12/24, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part 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 part 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 2/12/24 Signed [Signature] Commissions ND 16608
(Authorized Inspector) (National Board Authorized Inspector Commission no.)