

J-681

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multichamber vessels.

6. Shell (a) No. of course(s): 2 (b) Overall length (ft & in.): 14'-10"

7. Heads: (a) SA516-70 (b) SA516-70
(Mat'l Spec. No., Grade or Type) (HT. -- Time & Temp.) (Mat'l Spec. No., Grade or Type) (HT. -- Time & Temp.)

If removable, bolts used (describe other fastening) Stud Qty(64) 1 1/2-8 x 15.5" SA193 B7 Qty(128) Nut 1 1/2-8 SA194 2H
(Mat'l Spec. No., Grade, size, No.)

If bar, give dimensions _____ If bolted, describe or sketch.

10. Impact test UCS 66 (a) UHA 51 (d) at test temperature of - °F.
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. 221 Proof test _____

Items 12 and 13 to be completed for tube sections.

12. Tubesheet:	[Stationary (Mat'l Spec. No.)]	[Dia., in. (subject to press.)]	[Nom. thk., in.]	[Corr. Allow., in.]	[Attachment (welded or bolted)]
	[Floating (Mat'l Spec. No.)]	[Dia., in.]	[Nom. thk., in.]	[Corr. Allow., in.]	[Attachment]

13. Tubes:	(Mat'l Spec. No., Grade or Type)	(O.D., in.)	(Nom. thk., in. or gauge)	(Number)	(Type (Straight or U))
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Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s) _____ (b) Overall length (ft. & in.): _____

15. Heads: (a) _____ (b) _____
(Mat'l Spec. No., Grade or Type) (H.T. --- Time & Temp.) (Mat'l Spec. No., Grade or Type) (H.T. --- Time & Temp.)

If removable, bolts used (describe other fastening) _____
(Mat'l Spec. No., Grade, size, No.)

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the project.

3. The third step is to develop a plan or strategy to address the problem. This involves identifying the resources needed, the timeline, and the specific actions to be taken.

4. After the plan is developed, the next step is to implement the plan. This involves putting the plan into action and monitoring progress along the way.

5. Finally, the last step is to evaluate the results of the project. This involves assessing whether the objectives were met and identifying any lessons learned for future projects.

TAG# J-681

5-681

NATIONAL BOARD		NB 3791	
Certified By: EASTERN MANUFACTURING, INC. Clarence Center, New York			
		SHELL	TUBES JACKET
	MAWP PSI	170	
	DESIGN TEMP °F	500	
W	MIN. DESIGN SHELL METAL TEMP	0	°F @ 170 PSI
RT	MIN. DESIGN TUBE METAL TEMP		°F @ PSI
	MIN. DESIGN JACKET METAL TEMP		°F @ PSI
MFG. SERIAL NO. 5071		YEAR BUILT 2007	
MODEL NO. TAG NO. J-681		PO 56603-P-13-16	



FILTER HOUSING

FILTER HSG. MM#

32513

CART. PART NO.

710-4881

710-4881

CUST. PO. NO.

56603-P-13-16

CUST. TAG NO.

J-681

FOR MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE SEE PRODUCT LITERATURE

WARNING: DO NOT INSTALL OR SERVICE THIS EQUIPMENT
WITHOUT READING THE INSTRUCTION MANUAL

PALL ADVANCED OPERATIONS SYSTEMS

J-681

FORM NB-5 BOILER OR PRESSURE VESSEL DATA REPORT

FIRST INTERNAL INSPECTION

Standard Form for Jurisdictions Operating Under the ASME Code

1	DATE INSPECTED MO DAY YEAR	CERT EXP DATE MO YEAR	CERTIFICATE POSTED ☐ Yes ☐ No	OWNER NO. J-681	JURISDICTION NUMBER 700602	NAT'L BO NO. X 507	OTHER NO. ☐ 3791
2	OWNER Western Refining Yorktown, Inc.			NATURE OF BUSINESS Petroleum Refining	KIND OF INSPECTION ☐ Int ☐ Ext	CERTIFICATE INSPECTION ☒ Yes ☐ No	
3	OWNER STREET ADDRESS NUMBER 2201 Goodwin Neck Rd.			OWNERS CITY Yorktown	STATE VA	ZIP 23692	
3	USER'S NAME - OBJECT LOCATION Western Refining Yorktown, Inc.			SPECIFIC LOCATION IN PLANT G D U	OBJECT LOCATION - COUNTY York		
3	USER'S STREET ADDRESS NUMBER 2201 Goodwin Neck Rd.			USER'S CITY Yorktown	STATE VA	ZIP 23692	
4	TYPE ☐ FT ☐ WT ☐ CI ☐ AIR TANK ☐ WATER TANK Other DRUM			YEAR BUILT 2007	MANUFACTURER EASTERN MFG. INC.	YEAR INST 2007	☒ New ☐ Second Hand
5	USE ☐ Power ☐ Process ☐ Steam Htg ☐ HWH ☐ HWS ☐ Storage ☐ Heat Exchange ☐ Other			FUEL (BOILER)	METHOD OF FIRING (BOILER)	PRESSURE GAGE TESTED ☐ Yes ☒ No	
6	PRESSURE This Inspection 170 Prev. Inspection N/A			SAFETY-RELIEF VALVES Set at 50	EXPLAIN IF PRESSURE CHANGED		
7	IS CONDITION OF OBJECT SUCH THAT A CERTIFICATE MAY BE ISSUED? ☒ Yes ☐ No (If no, explain fully on back of form - listing code violation)					HYDRO TEST ☒ Yes 221 psi Date 2007 ☐ No	
8	SHELL No	DIAMETER 36 in	ID ☒ OD	OVERALL LENGTH 14 ft 10 in	THICKNESS in	TOTAL HTG SURFACE (BOILER) Sq Ft MATERIAL ASME Spec Nos	
9	ALLOWABLE STRESS psi	BUTT STRAP Thks in	☐ Single ☐ Double	HEADERS - WT BOILERS Thickness in	TYPE ☐ Box ☐ Sinuous ☐ Wtr Wall ☐ Other		
10	TYPE LONGITUDINAL SEAM ☐ Lap ☐ Butt ☐ Welded ☐ Brazed ☐ Riveted			RIVETS Dia Hole in	PITCH in X in X in	SEAM EFF %	
11	HEAD THICKNESS in	HEAD TYPE ☐ Plus ☐ Minus ☐ Flat	☐ Fixed ☐ Movable ☐ Quick Opening	RADIUS DISH in	ELLIP RATIO No Dia in Material	BOLTING in	
12	TUBE SHEET THICKNESS in	TUBES No Dia in Length ft in	PITCH (WT BLRS) in X in	LIGAMENT EFF %			
13	FIRE TUBE BOILERS STAYS ABOVE TUBES Front No Rear No		DISTANCE UPPER TUBES TO SHELL Front in Rear in	STAYED AREA FRONT HEAD	Above Tubes Below Tubes	REAR HEAD	Above Tubes Below Tubes
13	STAYS ABOVE TUBES Front No Rear No		TYPE ☐ Head to Head ☐ Diagonal ☐ Welded ☐ Weldless	AREA OF STAYS Front Rear			
13	STAYS BELOW TUBES Front No Rear No		TYPE ☐ Head to Head ☐ Diagonal ☐ Welded ☐ Weldless	AREA OF STAYS Front Rear			
14	FURNACE - TYPE Adamson (No Sect) ☐ Corrugated ☐ Plain ☐ Other			THICKNESS in	TOTAL LENGTH ft in	TYPE LONG SEAM ☐ Welded ☐ Riveted ☐ Seamless	
15	STAYBOLTS - TYPE Threaded Welded Hollow Drilled (Size Hole in)			DIAMETER in	PITCH in X in	NET AREA sq in	
16	SAFETY-RELIEF VALVES No 1 Size 4XL		TOTAL CAPACITY lb/Hr	OUTLETS No Size	PROPERLY DRAINED ☐ Yes ☐ No (If no, explain on back of form)		
17	STOP VALVES ☐ Yes ☐ No	ON STEAM LINE ☐ Yes ☐ No	ON RETURN LINES ☐ Yes ☐ No	OTHER CONNECTIONS ☐ Yes ☐ No	STEAM LINES PROPERLY DRAINED ☐ Yes ☐ No (If no, explain on back of form)		
18	FEED PIPE Size in	FEED APPLIANCES No	TYPE DRIVE ☐ Steam ☐ Motor	CHECK VALVES ☐ Yes ☐ No	FEED LINE ☐ Yes ☐ No	RETURN LINE ☐ Yes ☐ No	
19	WATER GAGE GLASS No	TRY COOKS No	BLOWOFF PIPE Size in Location	INSPECTION OPENINGS COMPLY WITH CODE ☐ Yes ☐ No (If no, explain on back of form)			
20	CAST-IRON BOILERS Length in Width in Height in			SECTIONS No	DOES WELDING ON STEAM, FEED BLOWOFF AND OTHER PIPING COMPLY WITH CODE ☐ Yes ☐ No (If no, explain on back of form)		
21	SHOW ALL CODE STAMPING ON BACK OF FORM. Give details (use sketch) for special objects NOT covered above - such as Double wall vessels etc				DOES ALL MATERIAL OTHER THAN AS INDICATED ABOVE COMPLY WITH CODE ☐ Yes ☐ No (If no, explain on back of form)		
22	NAME AND TITLE OF PERSON TO WHOM REQUIREMENTS WERE EXPLAINED: Gregor A. Thomson, Technical Services Manager						
23	I HEREBY CERTIFY THIS IS A TRUE REPORT OF MY INSPECTION Signature of Inspector			IDENT NO. VA1021R	EMPLOYED BY Western Refining Yorktown, Inc.	IDENT NO. OU-60	

$$= 23^{+76}$$
