



DBI, Inc. Quality Inspection and Consulting Services

*Reliable...Responsive...Resourceful...Proactive*

Williams Field Services

Stewart Dew Point Hickory, PA

7-18-2012

A-Scan Baseline Inspection

Vessel No.: V-170

Vessel Name: Fuel Pot

P&ID No: STWT-P01-009



**DBI Incorporated**

**Lincoln Nebraska**

4223 Progressive Avenue.Lincoln NE 68504.Telephone: 402-467-1818 Fax: 402-467-1766

**Omaha Nebraska**

2211 S. 156<sup>th</sup> Circle.Omaha NE 68130.Telephone:402-330-9612.Fax: 402-330-9640

**Overland Park Kansas**

11660 West 90th.Overland Park KS 66214.Telephone: 913-888-2321 Fax: 913-888-2351



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## Summary Report

Report Reviewed By:

API 510 #30888

Client: Williams Field Services

Location: Stewart Dew Point Hickory, PA

Vessel No.: V-170

Vessel Name: Fuel Pot

Inspection Date: 7-18-2012

Type of Inspection: A-Scan Baseline Inspection

Note: An A-Scan baseline inspection was performed on the V-170 Fuel Pot. The V-170 Fuel Pot meets MAWP of 285 psi with a remaining service life of 20+ years. The long and short term corrosion rates were determined using the nominal thickness of the vessel.

Next UT Inspection: 7/17/2017 API 510 para. 6.4

Next Visual Inspection: 7/17/2017

								Short Term	Long Term	Remaining
								Corrosion	Corrosion	Life
	TNom	Top	Bottom	North	South	East	West	Rate	Rate	(Years)
Top Head				0.358	0.358	0.358	0.358			
TML 1	0.250			0.248	0.246	0.248	0.247	0.001	0.001	20+



Client: Williams Field Services  
Location: Stewart Dew Point Hickory, PA

Vessel No.: V-170  
Vessel Name: Fuel Pot

### Vessel Parameters

Design Pressure (MAWP):	285 psi	Top Head Material:	SA-234-WPB
Design Temperature:	100 F	Top Head Type:	2:1 Ellipsoidal
Operating Pressure:	100 psi	Allowable Stress:	17,100
Operating Temperature:	80 F	Joint Efficiency:	.85
Diameter: I.D or O.D	12 3/4" OD	Bottom Head Material:	SA-516-70
Length S/S:	2'	Bottom Head Type:	Flat
Shell Material:	SA-53-B	Allowable Stress:	17,100
Allowable Stress:	17,100	Joint Efficiency:	.85
Joint Efficiency:	.85	Date Manufactured:	2008
Corrosion Allowance:	None	In Service Date:	2008

### ASME CODE EDITION USED FOR CALCULATIONS ASME Section VIII, Division 1. 2001 Edition

### Paint Information

Average paint coating thickness:	N/A	Thickness measured with paint:	N/A
Paint Multiplier:	N/A	Thickness measured without paint:	N/A

### Name Plate Information

U1A Available:	Yes	ASME stamp present on vessel:	Yes
Name Plate present:	Yes	Rubbing taken:	No



Client: Williams Field Services

Location: Stewart Dew Point Hickory, PA

Vessel No.: V-170

Vessel Name: Fuel Pot

### Vessel Data

Vessel Class:	2	Date Manufactured:	2008
Manufactures Serial #:	G2636A3	In Service Date:	2008
Product in Vessel:	Gas	Date of ASME VIII Vessel	2007
		Mfg. under:	
P&ID Drawing #:	009	Code Cases:	N/A
P&ID Prepared By:	Laurel Mountain Midstream, LLC	Addenda:	2008
Manufacturer:	Premier IND. Inc.	National Board Number:	864
Vessel Length S/S:	2'	Vessel Insulated:	No
Diameter I.D or O.D:	12 3/4" OD	Describe openings (if any):	N/A
No. of Shell Sections:	1	ANSI Flange Rating:	150 #
No. of Nozzles:	5	Vessel Orientation:	Vertical
Design Pressure (MAWP):	285 psi	Operating Pressure:	100 psi
Design Temperature:	100 F	Operating Temperature:	80 F
Top Head Type:	2:1 Ellipsoidal	Bottom Head Type:	Flat
Top Head Material:	SA-234-WPB	Bottom Head Material:	SA-516-70
Top Head Weld Type:	Type 1	Bottom Head Weld Type:	Type 1
Shell Material:	SA-53-B	Shell Weld Type:	Seamless
Radiography:	None	Hydrostatic:	371 psi

### Relief Valve Information

Relief Valve Tag Number:	221	Relief Valve Pressure Setting:	275 psi
Relief Valve Test Date:	9-15-10	Relief Valve Size:	1" x 1"

**PRESSURE VESSEL EXTERNAL INSPECTION**

Client: Williams Field Services Date Inspected: 7-18-2012  
Location: Stewart Dew Point Hickory, PA Inspector(s): Mike Troyer  
Vessel No.: V-170  
Vessel Name: Fuel Pot

Signature:

**NAME PLATE**

Item Inspected Yes No NA = Not Applicable

Item Inspected	Yes	No	NA = Not Applicable	Comments:
Name Plate present & legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good condition
National Board #	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	864
Manufacturer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Premier IND. Inc.
Serial #/ Year Built	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G2636A3/ 2008
Repair or Rerate Name Plate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A

**FOUNDATION**

Concrete condition (spalling, cracks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
Foundation settling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appears level
Coating condition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Cradle supports (moisture, cracks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted

**SUPPORTS**

Describe type (legs, saddle, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cradle
Corrosion, pitting (describe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
Weld condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good condition
Paint condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No paint failure noted
Anchor bolts (tightness & corrosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appears tight
Insulation deterioration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A

**SHELL**

Corrosion, pitting (describe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
Bulges/ Blisters/ Deformations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
Weld condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good condition
Paint condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minor paint failure
Insulation deterioration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Biological growth	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
UT Measurements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See autocad drawing



## HEADS

Item Inspected	Yes	No	NA = Not Applicable	Yes	No	N/A	Comments:
Corrosion, pitting (describe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
Bulges/ Blisters/ Deformations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
Weld condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good condition
Paint condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No paint failure noted
Insulation deterioration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
UT Measurements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See autocad drawing

## MANWAYS & NOZZLES

Corrosion, pitting (describe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None noted
Weld condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good condition
Flange condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good condition
Bolting condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good condition
Repad condition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Insulation deterioration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
UT Measurements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See autocad drawing

## APPURTENANCES

Grounding (tightness & corrosion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ground connection is tight
Gauges, Sight glass (damage)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Relief Valve #/ Size/ Set Pressure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	221/ 1" x 1"/ 275 psi

## LADDERS, STAIRS, PLATFORMS

Corroded, Broken Parts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Paint condition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Wear (ladder rungs, stair treads)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Handrails secure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Flooring condition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Tightness (bolts, tie down clips)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Attachment welds	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Corrosion, pitting (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A

## ADDITIONAL COMMENTS:



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## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) 12.75 OD" X 2'-00" S/S As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 FUEL POT.

1. Manufactured and certified by ITS ENGINEERED SYSTEMS, INC. 6818 FM 2855 KATY, TEXAS 77493  
(Name and address of manufacturer)

2. Manufactured for PREMIER INDUSTRIES, INC 3450 PETERS RD. HARVEY, LA 70058  
(Name and address of purchaser)

3. Location of installation UNKNOWN  
(Name and address)

4. Type: VERTICAL TANK G2636A-3 - G2636-3-05-01 REV 0 864 2008  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing no.) (Nat'l Bd. No.) (Year built)

5. 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 ASME Rules, Section VIII, Division 1 2007  
to 2008  
Addenda (Date)

6. Shell: SA-53B 2500" NONE 12 2'-00" S/S  
(Matl. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: SMLS NONE 85 - TYPE 1 NONE 1  
(Long. (Welded, Dbl., Sngl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (°F)) (Time (hr)) (Girth (Welded, Dbl., Sngl., Lap, Butt)) (R.T. (Spot, Eff. (%)) (No. of Courses

8. Heads: (a) Matl. SA-234-WPB (b) Matl. SA-516-70  
(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	2500" NOM	0"	-	-	-	-	-	-	CONCAVE
(b)	BOTTOM	1" NOM	0"	-	-	-	-	-	13.75" OD	-

If removable, bolts used (describe other fastenings) -

9. MAWP 285 100 psi at max. temp. 100 °F  
(internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 285 psi Hydro., 0 psi test pressure 371 psi  
(internal) (external)

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
GAS OUTLET	1	2"	NPT	SA-105	3000#	-	UW16.1(a)	HEAD
INLET BRIDLES	3	1"	NPT	SA-105	3000#	-	UW16.1(a)	SHELL
DRAIN	1	1/2"	NPT	SA-105	3000#	-	UW16.1(a)	SHELL
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

11. Supports: Skirt NONE Lugs - Legs - Other - Attached -  
(Yes or no) (No.) (No.) (Describe) (Where and how)

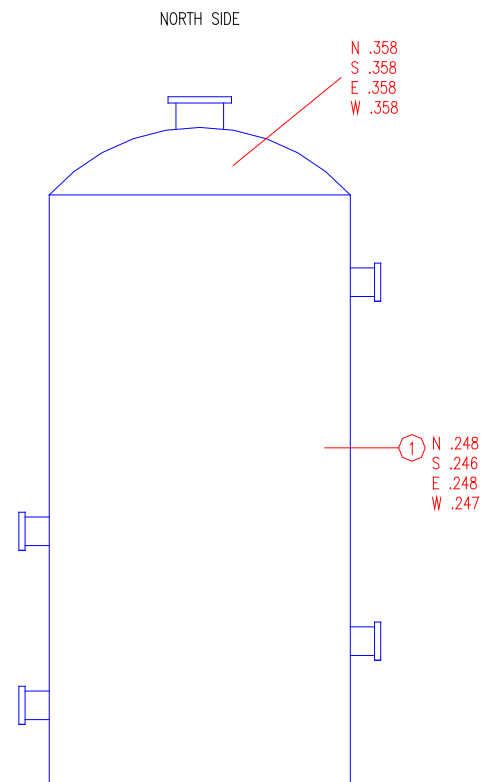
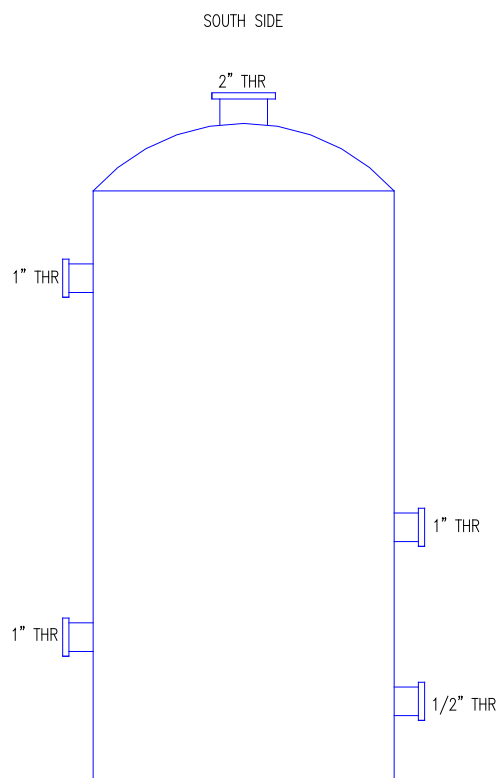
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: -  
MATERIAL IS EXEMPT FROM IMPACT TESTING PER UG-20(f)  
(Name of part, item number, Mfg's name and identifying stamp)

**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 Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 20340  
expires 12/01/2010  
Date 9/29/08 Co. Name ITS ENGINEERED SYSTEMS, INC. Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP / FIELD INSPECTION**

Vessel constructed by ITS ENGINEERED SYSTEMS, INC. at 6818 FM 2855 KATY, TEXAS 77493  
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TEXAS and employed by ONE BEACON AMERICA INSURANCE CO.  
have inspected the component described in this Manufacturer's Data Report on 9-29-08 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with 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 a loss of any kind arising from or connected with this inspection.  
Date 9-29-08 Signed [Signature] Commissions 1610562A, I, N TX1599  
(Authorized Inspector) (Nat'l Board, (incl. endorsements) State, Prov. and No.)



## NOTES

1. P&ID NO: STWT-P01-009
- 2.
- 3.
- 4.
- 5.
- 6.

CLIENT: Williams Field Services	<b><i>DBI, Incorporated</i></b> 5330 N. 57th Street Lincoln, Nebraska 68507	
LOCATION: Stewart Dew Point Hickory. PA		
INSPECTION DATE: 7-18-2012	ACAD DWG. FILE: V-170	
VESSEL No: V-170	DWN BY: MCS	CKD BY:
VESSEL ID: Fuel Pot	MECHANICAL INTEGRITY INSPECTION	