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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)**  
**As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1**

1. Manufactured and certified by Legacy Measurement Solutions, 222 North Cole Creek RD, Evansville Wy, 82636  
(Name and address of Manufacturer)

2. Manufactured for CNX Gas Company, 1000 Consol Energy Drive, Cannonsburge, PA. 15317-6506  
(Name and address of Purchaser)

3. Location of installation Unknown  
(Name and address)

4. Type Horizontal 3933-3934 NA 413010-6001-1 2817-2818 2015  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 2013 NA  
[Edition and Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]

6. Shell SA516-70 1.250" 0 27 1/2" 116" S/S  
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)]

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

7. Seams Welded Type 1 Spot .85 NA NA Welded Type 1 Spot .85 1  
[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 SA516-70 (b) Material SA516-70  
(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)	<u>Ends</u>	<u>1.1780"</u>	<u>0</u>	<u>NA</u>	<u>NA</u>	<u>2:1</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Concave</u>
(b)										

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

9. MAWP 1440 PSI NA at max. temp. 100 F NA  
(Internal) (External)

Min. design metal temp. -20 F at 1440 PSI Hydro., test pressure 1872 PSI

Proof test NA

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	
<u>LLC, Clean Out</u>	<u>3</u>	<u>5"</u>	<u>Pipe</u>	<u>SA106C</u>	<u>NA</u>	<u>.750"</u>	<u>0</u>	<u>Integral</u>	<u>Welded</u>	<u>NA</u>	<u>Shell</u>
<u>Inlet</u>	<u>1</u>	<u>4"</u>	<u>Pipe</u>	<u>SA106C</u>	<u>SA105</u>	<u>.647"</u>	<u>0</u>	<u>Integral</u>	<u>Welded</u>	<u>Welded</u>	<u>Head</u>
<u>Outlet</u>	<u>1</u>	<u>4"</u>	<u>Pipe</u>	<u>SA106B</u>	<u>SA105</u>	<u>.237"</u>	<u>0</u>	<u>Integral</u>	<u>Welded</u>	<u>Welded</u>	<u>Shell</u>
<u>Drain, Relief</u>	<u>6</u>	<u>2"</u>	<u>TOL</u>	<u>SA105</u>	<u>NA</u>	<u>3000#</u>	<u>0</u>	<u>Integral</u>	<u>Welded</u>	<u>NA</u>	<u>Shell</u>
<u>LLSD, HLSD, Oil Out</u>	<u>4</u>	<u>2"</u>	<u>CPLG</u>	<u>SA105</u>	<u>NA</u>	<u>3000#</u>	<u>0</u>	<u>Integral</u>	<u>Welded</u>	<u>NA</u>	<u>Shell</u>
<u>TSAT, Spare</u>	<u>2</u>	<u>1"</u>	<u>CPLT</u>	<u>SA105</u>	<u>NA</u>	<u>3000#</u>	<u>0</u>	<u>Integral</u>	<u>Welded</u>	<u>NA</u>	<u>Shell</u>

11. Supports: Skirt No Lugs No Legs 2 Other No Attached Welded Bottom  
(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)

Horizontal Separator for non-corrosive service, Impact testing exempt per UCS-66, Overpressure protection by owner per UG-125(a), See attached U4

FORM U-1A (Back)

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

expires October-5-2015

36,097

Date 4-30-2015 Co. name Legacy Measurement Solutions  
(Manufacturer)

Signed Jensell Black  
(Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Legacy Measurement Solutions at 222 North Cole Creek RD, Evansville Wv, 82636

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by OneCIS,INS. Co.

have inspected the component described in this Manufacturer's Data Report on 4-30-15, 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 4-30-15 Signed [Signature]  
(Authorized Inspector)

Commissions NB 1511 AR  
[National Board (incl. endorsements)]

**FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET**

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As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Legacy Measurement Solutions, 222 North Cole Creek RD, Evansville Wy, 82636  
(Name and address of Manufacturer)
2. Manufactured for CNX Gas Company, 1000 Consol Energy Drive, Cannonsburg PA. 15317-6506  
(Name and address of Purchaser)
3. Location of installation Unknown  
(Name and address)
4. Type Horizontal Separator 3933-3934  
(Horizontal, vertical, or sphere) (Tank, separator, heat exch., etc.) (Manufacturer's serial number)
- NA 413010-6001-1 2817-2818 2015  
(CRN) (Drawing number) (National Board number) (Year built)

Data Report Item Number	Remarks
<b>Form U-1A Item # 3</b>	<b>Purpose LG</b>
	<b>Nom. 3000#</b>
	<b>No. 4</b>
	<b>Corr. 0</b>
	<b>Dia. 1/2"</b>
	<b>Reinforcement Matl. Integral</b>
	<b>Type CPLG</b>
	<b>How attached Welded</b>
	<b>Material SA105</b>
	<b>Location Shell</b>
<b>Item # 6</b>	<b>Purpose , FGS, Spare</b>
	<b>Nom. 3000#</b>
	<b>No. 3</b>
	<b>Corr. 0</b>
	<b>Dia. 1/2"</b>
	<b>Reinforcement Matl. Integral</b>
	<b>Type CPLT</b>
	<b>How attached Welded</b>
	<b>Material SA105</b>
	<b>Location Shell</b>

Certificate of Authorization: Type "U" No. 36,097 Expires October-5-2015

Date 4-30-2015 Name Legacy Measurement Solutions Signed *Samuel Black*  
(Manufacturer) (Representative)

Date 4-30-15 Name *[Signature]* Commissions NB 15111AR  
(Authorized Inspector) (National Board (incl. endorsements))