

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS** A 636452  
**(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: PENFABCO LTD 5715 - 56 Avenue NW, Edmonton, AB T6B 3G3 Canada  
 (Name and address of Manufacturer)  
 2. Manufactured for: RJV Gas Field Services 4901 Bruce Road Vegreville, AB T9C 1C3  
 (Name and address of Purchaser)  
 3. Location of installation: Stock  
 (Name and address)

4. Type: Vertical PE-13306 V7840.213 Shts 1 & 2 N/A 2014  
 (Horizontal or vertical tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year Built)

5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1 2013  
 Year

to N/A N/A N/A  
 {addenda(date)} (Code Case numbers) {Special Service per UG-120(d)}

6. Shell: SA-516-70N 1.00" 1/8" 22" 8' 0" s/s  
 (Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (inner diameter) (length overall)

7. Seams: Type 1 Full 100% N/A N/A Type 1 Spot 70% 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 SA-516-70N (b) Material SA-516-70N  
 (Spec. no. grade) (Spec. no. grade)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
		Min.	Corr.	Crown	Knuckle					
(a)	Top	.9375"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	Bottom	.9375"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastening) N/A  
 (Material spec. number grade, size, number)

9. MAWP 1440 psi N/A at max temp. 130° F N/A  
 (Internal) (External) (Internal) (External)  
 Min. design metal temp. -20° F at 1440 psi Hydro. , pneu. or comb. test pressure Hydrostatic 2160 psi  
 Proof Test N/A

10. Nozzles, inspection, and safety valve openings:

Purpose Inlet, Outlet, Drain, etc	No.	Diam. or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet, Gas Out, LC's, HLS, Insp	6	3" ID	CL 600 RFLWN	SA-105N	N/A	.81"	1/8"	Not Required	UW16.1(c)	N/A	Shell, Top Hd
Drain	1	NPS 2	CL 600 RFLWN	SA-106B	SA-105N	.436"	1/8"	Not Required	UW16.1(c)	Type 1	Bottom Head
PSV, Vent/Insp	2	NPS 2	CPLG	SA-105N	N/A	CL6000	1/8"	Not Required	UW16.1(a)	N/A	Shell
HC, Water Outlets	2	NPS 1	CPLG	SA-105N	N/A	CL6000	1/8"	Not Required	UW16.1(a)	N/A	Shell
LG's, TI	5	NPS 3/4	CPLG	SA-105N	N/A	CL6000	1/8"	Not Required	UW16.1(a)	N/A	Shell
PI	1	NPS 1/2	CPLG	SA-105N	N/A	CL6000	1/8"	Not Required	UW16.1(a)	N/A	Shell

11. Supports: Skirt Yes Lugs 0 Legs 0 Others None Attached Welded to Btm Hd  
 (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: N/A  
 (List the name of part, item number, Manufacturer's name and identifying stamp)

Impact Test exempt per UG -20(f) 1-5 & UCS-66(c) RT per UW-11(a)5(b)  
 Volume 28.9 cu.ft. (.82 m3) PSV Installed in Piping by Others per UG-125(g)  
 Vertical Separator Manufactured to Dwg. PE-13304 Rev 1

**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 conform to the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. "U" Certificate of Authorization Number 14,383  
 expires 12/28, 2016

Date 03/27/14 Co. Name PENFABCO LTD Signed M. Bagen  
 (Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by PENFABCO LTD at 5715 - 56 Avenue NW Edmonton, AB T6B 3G3  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Alberta and employed by ABSA

have inspected the component described in this Manufacturer's Data Report on March 27, 2014, 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 Mar 27, 2014 Signed [Signature] Commissions AB 95 NB 12143 A,B  
 (Authorized Inspector) (National Board (Incl endorsements) State, Province and number)

