

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: PENFABCO LTD 5715 - 56 Avenue NW, Edmonton, AB T6B 3G3
(Name and address of Manufacturer)
2. Manufactured for: T.A.K. Oilfield Sales & Service Ltd PO Box 1418 Stettler, AB T0C 2L0
(Name and address of Purchaser)
3. Location of installation Stock
4. Type: Vertical PE-12576 (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year Built)
(Horizontal or vertical tank)
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
to 2011 {addenda(date)} N/A {Special Service per UG-120(d)}
6. Shell: SA-516-70N (Material spec. number, grade) 1.00" (Nominal thickness) 1/8" (Corr. Allow.) 22" (inner diameter) 7' 6" s/s (length overall)
7. Seams: Type 1 Full 100% 1150° F 60 Min Type 1 Full 100% 1
[Long. (welded, dbl, sngl, lap, butt)] [R.T. (spot or full)] [Eff., %] [H.T. temp. (Time, hr) [Orth. (welded, dbl, sngl, lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses)]
8. Heads: (a) Material SA-516-70N (Spec. no. grade) (b) Material SA-516-70N (Spec. no. grade)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Attachment Details	Location (Insp. Open.)
		Min.	Corr.	Crown	Knuckle				Nozzle	
(a)	Top	.9375"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	Shell
(b)	Bottom	.9375"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	Shell

If removable, bolts used (describe other fastening)

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

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc)	No. Diam. or Size	Type	Material		Nozzle Thicknes	Reinforcement	Attachment Details		Location (Insp. Open.)
			Nozzle	Flange			Nozzle	Flange	
Inlet, Gas Outlet	2	NPS 3	CL 600 RFLWN	SA-105N	N/A	1/8"	Not Required	UW16.1(c)	N/A
Drain	1	NPS 2	CL 600 RFWN	SA-106B	SA-105N	1/8"	Not Required	UW16.1(c)	Type 1
Outlets	2	NPS 2	CL 600 RFWN	SA-106B	SA-105N	1/8"	Not Required	UW16.1(c)	Type 1
PSV,HLSD, Insp, LC	6	2.375"	CPLG	SA-105N	N/A	1/8"	Not Required	UW16.1(a)	Shell
LG's, TI	5	NPS 3/4	CPLG	SA-105N	N/A	1/8"	Not Required	UW16.1(a)	Shell
PI	1	NPS 1/2	CPLG	SA-105N	N/A	1/8"	Not Required	UW16.1(a)	Shell

11. Supports: Skirt Yes Lugs 0 (Number) 0 (Number) Others (Describe) Attached Welded to Btm Hd (Where and how)
(Yes or No)

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

Impact Test exempt per UG -20(f) 1-5 & UCS-66(c) RT per UW-11(a)
Volume 22.0 cu.ft. (.63 m3) PSV Installed in Piping by Others per UG-125(g)
Vertical Separator Manufactured to Dwg. PE-12574 Rev 2
(List the name of part, item number, Manufacturer'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 Boiler and Pressure Vessel Code, Section VIII, Division 1.
"U" Certificate of Authorization Number 14,383
expires 12/28, 2013

Date 10/23/12 Co. Name PENFABCO LTD Signed M. Bayan (Representative)
(Manufacturer)

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 October 23, 2012
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 OCT 23 2012 Signed M. F. (Authorized Inspector) Commissions NB14446A, AR422
(National Board (incl endorsements) State, Province and number)