FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Page 1 of 3

Manufactured and certified by K					K MANA	K MANAGEMENT, INC. 1/2 MILE E. JCT FM 1195 & 1821, MINERAL WELLS. TX 76067 (Name and address of manufacture)								
2. Manufactured for					POROU	POROUS MEDIA CORPORATION, 1350 HAMMOND ROAD, ST. PAUL, MN. 55110 (Name and address of purchaser)								
3. Location of installation				en e	EASTER TO SEMENTING TO THE RESIDENCE			UNKNOW						
	Type VERTICAL (Honz or vert task)				5411 (Migr's seria			N/A (CRN)		1-A RO		1426 1996 (Nert Bd No.) (Year Duilt)		
5. The chemical and physical properties				es of all parts	meet the i	require	ements of ma	aterial specifica	tions of the A	SME BOILER	AND PRESSU	RE VESSEL CODE.		
	The design, co	nstru	ction, a	ind workm	anship conform	ship conform to ASME Rules Section VIII, Division 1 1995								
Yedr														
	to			A95 Addenda (Date)	Cod			ONE • Case Nos			NONE Special Service per	UG-120(d)	
€.	Shell:	Mar	SA-3	133-6	Nor	1.438" Nort. Thk (in.)			.125" Corr Allow (In)		<u>)</u>		9' 10" h (overall) (4 m.)	
_	_								. ,					
7.			LESS	pl., Lap. Butt)	N/A RT (Spet or Full		00% (.(%)	H.T Temp (F) Time (hr)	OBL BU Girth (Welded, DI	TT EQUIV bl., Snight, Lasp, Bluft)	NONE R T (Spot, Parti	at, or Full) No. of Courses	
8.	Heads: (a) N	lati.		SA-6	16-70N (HEAD	AD) SA-350-LF2 (SUB)		(BU)	(b) Matt.	b) Matt.		-516-70N : No : Grade)		
	Location (Minimum		Carrosian	Crown	T	Kauckle	Elliptical	Conical	Hemispherica	Flat	Side to Pressure	
	Bottom Er		 	ickriess	Allowance	Radius		Radius	Ratio	Apex Angre	Radius	Diameter	(Convex or Concave)	
18	+		_	.613" .270"	.125"	16" VER	TICAL	L CLOSURI		CONTROL IN	Υ	T	CONCAVE	
(1			<u> </u>		L				2:1	******			CONCAVE	
	If removable, bolts used (describe other fastenings) (Matt. Spec. No. Gr., Size, No.)													
9.	9. MAWP 2200 psi at max. temp. 150 ° F													
-	Min. design me	tal ter	mp	-20		2200			new te			3300	The state of the s	
10	Nozzies, inspe							por 11,010 . =		or prossure	THE THE PERSON HAVE BEEN AND AN ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDR		psı	
Ë	Purpose	T	No	Diam	T			NA - At	Nom	Reinforcem	ent	How		
-	Inlet Outlet Drain	")		or Size				Thi	Mati	At	tached	Location		
-	LET UTI ET	-	1	8" 8"	CL 900 I			SA-105 N	1.88"	INTEGR		LDED	SHELL.	
	L C (SUMP)		2	1.1/2"	SCR'D CI				1.88"	INTEGR		LDED	SHELL	
-	C (COAL)	_		1.1/2"	 	SCR'D CPLGS		SA-105	6000#			LDED	SHELL	
					NONE				NONE	Atta		BOTTOM HEA		
•••	oupports. on		(Yes or n		(No.)		No.)	Julier	(Describe)	- Alla	inea		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: 8 (a): 16 th VERTICAL CLOSURE S/N FQ17 BY FLOW CONTROL EQUIPMENT, INC. "U" SYAMP CERT. # 10052. (Name of part, dem number Migr's name and identifying stamp) ONE PAGE FORM U-4 SUPPLEMENTARY SHEET ATTACHED.													
							AMS I	MPACTED	TESTED PER	UG-84 @ -20 I	DEG.F. DESI	GNED TO UG	22(a) ONLY	
					ALESCING FI	LTER.				*****		THE RESIDENCE PROPERTY OF THE PARTY OF THE P		
****	CU3	OMI	EK P) # 2567 <i>-</i> 2	7	er fret a varia de Bare francisco de la composito de la compos		. 1674000000 50 00 100 100 100 100 100	a almost a common magazine con mag, copy o groupine con es	THE STATE OF THE S	The second of th	PLANT NO. 27, 277 SECRETARIO		
								A TOTAL CO. L. C.						
Ma	cartifu that the		mante	mada in th	ie renort are cor				OP COMPLIAN			ad Abria		
									gn, material, co on No 15097		· · ·	or this vesser t	conform to the	
Dat	e12	-26-9	6	Co. N	lame	K MANA	Marida	ENT INC.	Charles and the same of	Signed C	harl	- 2	manley	
			·			CERT			P INSPECTION	<u> </u>	-	(Kahiasairaniaa)		
Ves	sel constructe	d by	and consider the second	our comments on the form	K MANAGE				at		AL WELLS, 1	EXAS 76067		
i, th	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													
hav				t described	with the second of the second	iployed by cturer's Dat	la Rep	and the second of the second of the second	49.96	19 , 19			nat to the best of	
my	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														
	nected with th				1	/			and because it	,, or property	, warringe UI d	waa ur ally Kii	न्द्र बारआपु सणा छ	
Dat	•	22	12	Signed	Micon &	Authorized Insp	(ector)	El 12	Comm	issions	5920 (Nat I Board ilect a	BNA TX #541 ndorsements), State,	B Prov. and No.)	
								· · · · · · · · · · · · · · · · · · ·					THE COLUMN TWO IS NOT	

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Page 2 of 3

1 Manufactured and certified	d by	K MANAGEMENT, INC. 1/2 MILE E. JCT FM 1195 & 1821, MINERAL WELLS, TX 76067									
2. Manufactured for	P	OROUS MEDIA	CORPORATION, 1350 (Name and adde	HAMMOND ROAD, S	ST. PAUL, MN. 55110	I	- Williams of the control of the con				
3. Location of installation		UNKNOWN (Name and address)									
4. Type VERT	ICAL	ULTISE!	P COALESCING FILTER		5411 (Mig's, serial No.	5411 (Mrg's serial No.)					
N/A (CRN)		a, stanishilianin marananan yaarennin vuotaanin vuotaanin kunt	D-6411-A R0 (Drawing No.)		1426 1990 (Nat'l Bd. No.) (Year bufft)						
Data Report		galan algendaria mente er utaran kerte aran kerte nganggara aranga		Remarks							
10.	DRAIN (SUN	DRAIN (SUMP): (1), 1" SCR'D CPLG, SA-105, 6000#, WELDED, BCTTOM HEAD.									
10.	DRAIN (CO	DRAIN (COAL): (1), 1" SCR'D CPLG, SA-105, 6000#, WELDED, SHELL.									
10.	LIQUID OUT	LIQUID OUT (SUMP): (1), 1" SCR'D CPLG, SA-105, 6000#, WELDED, SHELL.									
10.	LIQUID OUT	LIQUID OUT (COAL): (1), 1" SCR'D CFLG, SA-106, 6000#, WELDED, SHELL.									
10.	RELIEF / VE	RELIEF / VENT: (1), 1" SCR'D CPLG, SA-105, 6000#, WELDED, SHELL.									
10.	DPI: (2), 1/2	DPI: (2), 1/2" SCR'D CPLGS, SA-105, 6000#, WELDED, SHELL. LEVEL GAUGE (SUMP): (2), 3/4" SCR'D CPLGS, SA-105, 6000#, WELDED, SHELL.									
10.	LEVEL GAU										
10.	LEVEL GAU	LEVEL GAUGE (COAL): (2), 3/4" SCR'D CPLGS, SA-105, 6000#, WELDED, SHELL.									
10.	SPARE W/	PLUG: (1), 3/4"	SCR'D CPLG, SA-105,	6000#, WELDED, SI	IELL.						
							~				
							Marie and America				
Certificate of Authorization:	The state of the s		15097		May 3		97				
Date <u>12-26-96</u> Na	ime	K MANA	GEMENT, INC.	Signed	Charles	J. Man	leg				
Date 327	47 Nam	. Break	A. Noteen by	Commission	6920 BNA	TX #548					

P.O.	255929
SO	96-2564

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)

Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacture.	er p. ce
As Required by the Provisions of the ASME Code Rules Section VIII Division 1	TAG

3 0	,
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	As Re	quired by the	Provision	ons of th	e ASME C	ode Rules	, Sectior	ı VIII, Divisi	on 1	, •
1. Manufactured	and certified by	FLOW CONTROL	EQUIPME	NT INC. 1	0906 FM 2920	TOMBALL	TEXAS 7	7375		
2. Manufactured	for POROUS	MEDIA 1107 INT	ERSTATE	45 SOUTH		TX 77301	nivar turer)			
3. Location of ins	staliation UNKN	OWN								
4. Type. (1)	16" VERTICAL CL	OSURE			FQ17	ne and address)		N/A		
NVA	(Description of ver	seel part (ahell, two-piece head 50E16V-RO	f tube bundless	FLOW C	CONTROL EQ	Mig a Semil No			сям. 1996	
:Nat Bd		1995 ADDENDA		N/A	Orawing prepared by		N/A	1330	(nar built)	
5. ASME COUE, S	Section Visi, DIV. 1		Addende (date)			Code Case No		1777	cia Service per 170-120	3rd)
6. Shell (a) No.	of course(s):		(b)) Overall ler	ngth (ft & in):	0 FT-10	0.0 IN			
No Guernater en	Course(s)	Material Spec /Grade or Type	Thick:			est≓Cat A) LNone - Et		Simum Lond (Cat. A. B.) Soll Spot Notes	\$ G.	Heat Treatment
1 13.124	0-10.0	SA350LF2	1.438	.125 S	NONE	1	S	NONE	1 N/	A NA
	1					• •	. •	, 110,112	1 10/	n iwn
		• •							•	•
7. Heads: (a)	SA516-70N	ec No Grade or Type) H.T.	Time & Yemn		(b)	N/A	Maril Com	No. 2000 - 700 - 11	Y	
Location (Top	Thursday	Radius	Elliptical	Conk	al Manne	phencal fit		No. Grade or Type) H. Sate to Pressure		ectory &
Boitom, Ende) Min Corr	Crown Knuckte	Ratio	Apex A			n neter ⊜or	ovex Concave		pot None Eff
(a) END (b)	1.613 .125	•	2:1	,				X	S NONE	1
If removable, boit	s used (describe oth		VA.							
B. MAWP 220	7 Y	SEE REMARKS psi at max. temp	+150		∘F	Mai Spec Min desig	n metal tem	00	F at	2200 ps
9. Impact test	YES - CAP & HU	В	:nter	nai)	(external)					
Purpose (Intet, Outer, Drein, etc.) SEE REMARXS	man resource confine and a series of the series of	meter Flange	Mai Nozzła	tensi ^C iange	Nozzie Thic Nom	kness Carr	Reinforcement Material	Ho Nozz le	w Attached Flamps	cocation Insp⊡pen i
	1				• • •	•				
PAV	1 1/2"N	IPT THD	SA350	LF2	N/A	N/A] IN	HERENT	INT.THD.		SHELL
Management Control of the Control of the Control	and the first state of the stat	• • •		•		•				
12. Supports: Sk		Lugs	Legs	,	Others	•		A Manager and		
A LONG TO AND TO SEE ALL SEE	THIS TEMPÉRATU TEMPERATURE IS UG-120(c)2 DESIGI IS NOT HYDROST/	RE APPLICABLE DETERMINED BY N & CALCULATIO	TO CLOSU TEMPER N BY FLO	URË META ATURE LII W CONTR	AL COMPONE MITATIONS O OL EQUIPME	F O-RING MA	TERIAL.		Where	e and how)
					SHOP/FIELD					
	t the statements mad de for Pressure Vess			that all deta	ails of material,	construction a	and workma	nship of this pre	ssure vessel pa	iff conform to
	of Authonization No.	10052		Expire	s JUL	Y 16		. 19	99	
Date 12	13/94 Name	FLOW CONT	ROL EQU	IPMENT IN			Sign		my K buch	¥
Agenda activização agenda como en como esta proportiva de como en como	Control of the Contro	A PLANTS AND A SECTION AND A	CERT	TIFICATE OF	SHOP/FIELD I	NSPECTION				
and employed		STEAM BOILER I	NSPECTIC	ON & INSU	RANCE CO.	of	CONN	ECTICUT		TEXAS have inspected
	essel part described in nas constructed this p					19 • VIII - Division		that, to the best o		
	nas constructed this p									
nor his employ	er shall be liable in ar	ny map ney tor any pe	ragnal <u>i</u> njur	y or property	/dampageorals					•
Date 12 1	3 76 Signed (The CM	الملك	L_	/	Commissions	TX ?	55 (OHIO C 7 O	197