FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS **KPE** Project No. (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) 021-009-001 As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1 PO No. 1. Manufactured and certified by Summit Energy Equipment, 41 HC Pioneer Pkwy., Sulphur Springs, Texas, 75482, USA (Name and address of Manufacturer) 2. Manufactured for KP ENGINEERING, 5555 OLD JACKSONVILLE HWY, TYLER, Texas, 75703, USA (Name and address of Purchaser) 3. Location of Installation NOT KNOWN (Name and address) **VERTICAL** 11398 N/A 200-021-006-001-01 2016 4. Type 105 (Horizontal or vertical, tank) (CRN) (National Board number) (Manufacturer's serial number) (Drawing number) (Year built) 5. ASME Code, Section VIII, Division 1 2013/ N/A N/A N/A [Edition and Addenda, if applicable (date)] (Code Case numbers) (Special service per UG-120(d)) 6. Shell: **SA516 GR70N** 0.375" 0.125 in 2' 11.25" (ID) 12' (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)] Body Flanges on Shells Bolting How Flange ID Bolting No. Type OD Min Hub Thk Material Location Washer (OD, ID, Washer Attached Num & Size Thk Material thk) Material N/A SPOT 85% N/A TYPE 1 SPOT 85% 2 7. Seams: TYPE 1 N/A [Long. (welded, dbl., sngl., lap, butt)] [R.T.(spot or full)] (Eff.,%) (H.T. temp) (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses) 8. Heads: (a) Material (b) Material **SA516 GR70N** SA516 GR70N (Spec. no., grade) (Spec. no., grade) Location (Top, Bottom, Knuckle Radius Elliptical Ratio Conical Apex Side to Pressure (Convex or Minimum Corrosion Crown Radius Hemispherical Flat Thickness Ends) Allowance Angle Radius Diameter Concave) (a) TOP 0.4375" 0.125'N/A N/A 2:1 N/A N/A N/A CONCAVE **BOTTOM** 0.4375 0.125 N/A N/A N/A N/A CONCAVE (b) N/A 2:1 Body Flanges on Heads Min Hub Bolting Material Washer (OD, ID OD Location Flange Thk Material How Attached No. Type Thk Num & Size Washer Material N/A N/A N/A N/A (a) N/A N/A N/A N/A N/A N/A N/A at max. temp. 9. MAWP 200 psi 14.7 psi 400 °F 300 °F (External) (Internal) (Internal) (External) HYDRO at 260 psi Min. design metal temp. -20 °F at 200 psi Hydro, pneu., or comb. test pressure

Proof test N/A

10. Nozzles, inspection and safety valve openings:

10. Nozzies, inspection and safety valve openings.											
Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Туре	Ма	Nozzle ⁻	Thickness	Reinforcement	Attachme	nt Details	Location	
	INO.			Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)
VAPOR OUTLET (C)	1	12"-150	RFLWN	SA105	SA105	1.19"	0.125"	INHERENT	UW-16.1c	N/A	N/A
EXT.	2	2" - 300	RFLWN	SA105	SA105	0.655"	0.125"	INHERENT	UW-16.1c	N/A	N/A
INLET (A)	1	14" -150	RFLWN	SA105	SA105	1"	0.125"	SA516 G70	UW-16.1h	N/A	N/A
EXT.	3	3"-300	RFLWN	SA105	SA105	0.81"	0.125"	INHERENT	UW-16.1c	N/A	N/A
HANDHOLE (H)	1	12"-150	RFLWN	SA105	SA105	1.19"	0.125"	INHERENT	UW-16.1c	N/A	CYLINDER #1
LIQUID OUTLET (B)	1	4"-150	RFLWN	SA106B	N/A	0.438"	0.125"	INHERENT	UW-16.1c	N/A	N/A

11. Supports: Skirt	YES	Lugs	N/A	N/A Legs N/A Other		N/A	Attached	ELLIPSOIDAL HEAD #1 - WELDED	
	(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:

SHELL BY GREENS BAYOU PIPE MILL, HOUSTON, TX (CERT 42546) S/N 6251-001

(Name of part, item number, Manufacturer's name and identifying stamp)

IMPACT TESTING EXEMPT Ug-20 (f) FOR NON-LETHAL SERVICE

OVER PRESSURE PROTECTION BY OTHERS

FORM U-1A (Back)

NB Number 105

		CERTIFICATE OF SHOP/FIELD Continuous in this report are correct and that all det PRESSURE VESSEL CODE, Section Version .	ails of design, material,					
Date 03/11/2016	Co. name	Summit Energy Equipr (Manufacturer)	nent	Signed	Representative)			
		CERTIFICATE OF SHOP/	FIELD INSPECTION					
Vessel constructed by Summit Energy Equipment at 41 HC Pioneer Pkwy., Sulphur Springs, Texas, 75482, USA I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by								
and state that, to the AND PRESSURE V warranty, expressed	component descr be best of my know ESSEL CODE, S I or implied, cond	ribed in this Manufacturer's Data Report wledge and belief, the Manufacturer has Section VIII, Division 1. By signing this of terning the pressure vessel described in an any manner for any personal injury or	constructed this pressurertificate neither the Institute Manufacturer's Date	re vessel in ac pector nor his/l a Report. Furt	ner employer makes any hermore, neither the Inspector			
Date04/12/2	2016 Signe	ed(Authorized Inspector)	Commissions	[National B	11944AB pard (incl. endorsements)]			

2493747 exe: v6.4.28 *Form and version:* U1A-18

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM) A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. M	lanufactur	ed and	certified b	у			G	reens Ba		Mill 13 Name ar					n, Texas 770	15				
2. M	lanufactur	ed for	~~~~				Norths	hore Supp	ly 1393	35 Indus	trial R	load H	ouston	, Texas 7	7015					
3. Lo	ocation of	installa	tion					,			Jnkno	own								
4. T	/pe			1 8	iheli				N. 700 SCHOOL ST.	(Nam		address 1-001	s)							
	I. Type1 Shell [Description of vessel part (shell, two-piece head, tube bundle)]										(Manufacturer's serial number) (CRN) 2015									
E A:	(National Board number) (Drawing number) 5. ASME Code Section VIII Div. 1 2013									(Drawing prepared by) (Year built)										
	5. ASME Code, Section VIII, Div. 1 2013 (Edition and Addenda, if applicable (date 2 4) 2 4) Ove									[Special service per UG-120(d)]										
6. S	nell: (a)	Numbe	r of cours	e(s)				(b) Overa	all leng	th					12'-0"					
No.	Diamete	ourse(s		-	Material	~	Thickness			Long. Joint (Cat			-		m. Joint (C			(C) Heat Treat		
1	36" OD		Length 8'-0"	Spec	./Grade or SA516-70		Nom. 0.375"	Corr.			Full, Spot, None		Eff.	Type 1	Full, Spot		Eff.	Temp.	+	îme
1	36" OD		4'-0"		SA516-70		0.375*	•	1	Full Full					, cui		-		- -	
								Body Flar	iges on S	Shelts					· · · · · · · · · · · · · · · · · · ·					
	_															Bolting	Washer			
No.	Туре	ID	00	Flange Th	k Min Hut	Thk	Materia	How	Attached	Lo	cation		lum & :	Size 8	olting Materi		D, ID, thk	Was	her M	aterial
																-		1		
<u> </u>					1													工		
7. H	ads: (a)		(Material sp	ec. number, ç	grade or type	a) (H.T	- time an	d temp.)		(b) .		(Ma	iterial sp	pec, numb	er, grade or t	/pe) (H.T	. — time a	nd tem).)	
	Location (Top, Thickness Radius , Elliptical Conical								ispheri	cal	Fla	ıt _	Side to	Pressure Category A						
(a)	Bottom, En	ds) M	in, Corr.	Crown	Knuckle	Rati	atio Apex Angle			Radius Dian		Diam	ameter Convex		Concave	ve Type Full, S		Spot, N	pot, None Eff.	
(b)									-											
								Body Flan	ges on H	leads										—— ——
												T_			8	olting				
(a)	Location	Туре	ID ID	OD	Flange	Thk N	lin Hub T	hk Ma	terial	How A	v Attached Num & S			Size Bolting Material ((OD, ID, thk) Wasi		ner Ma	aterial
(þ)										1		1_						土		
8. M	AWP	iternal)	(Eytern	at m	ax. temp.		(Internal)		(F	- N	Min	. desi	gn me	etal tem	p		at _			
9. Im	pact test				ale yes or no		No								temperatu					
10. Hy	/dro., pne	ı., or ça	mb. test p			No No	ne	ont(s) inipa	Proof	j					***************************************					
11. No	zzles, insp	ection,	and safe	ty valvę o	penings:															
Unio	Purpose			Diameter	1			terial		ozzle Ti	niçkn	ess	Rein	orceme	nt Attac	hment	Details	L	ocatio	n
firmer	, Outlet, Dr	ain, etc.	No.	or Size	Тур	e	Nozzle	Flange	N	om.	Co	err.	M	aterial	Noz	le	Flange	(Ins	p. Op	en.)
															_			-		-
12. lde	ntification	of pari	:(s)	Marcon Topico in			······································											<u> </u>		
	Name	of Part		Quantity	Line No.	Mfr's	. Identii	ication N	o.	Mfr's. Drawin			ng No.		CRN Nati		itional Board N		Year	Built
			. 100	<u> </u>	1	<u></u>								<u> </u>						***
	oports: Sk	rt(Ye:	No Li	ugs	nber) Le	gs	Number)	Other		(Des	cribe)		At	tached		(W)	nere and i	iow)		
14. Rer		lo Design	Functions	by Greens i	Bayou Pine	Mill. W	/PS is ou	alified with	and with	thout Pl	~	Former	din Ac		with LIG 79	HC 00		70	**********	

FORM U-2A (Back)

CEI	TIFICATE OF SHOP/FI	ELD COMPLIANCE		
Date Name	e correct and that all of SURE VESSEL CODE, Expires Bayou Pipe Mill anufacturer)	details of material, cor Section VIII, Division 01/19/2018 Signed	nstruction, and workmanship of this pre	essure
CE	RTIFICATE OF SHOP/F	IELD INSPECTION		
I, the undersigned, holding a valid commission iss Authorized Inspection Associa		Board of Boiler and P	ressure Vessel Inspectors and employ Houston, Texas	ed by
have inspected the pressure vessel part described in	this Manufacturer's Da	ata Report on	12 / 4 / 2015	
and state that, to the best of my knowledge and b	elief, the Manufactu	rer has constructed t	his pressure vessel part in accordanc	e with
ASME BOILER AND PRESSURE VESSEL CODE, Sec	tion VIII, Division 1. B	y signing this certifica	ite neither the Inspector nor his/her em	pioyer
makes any warranty, expressed or implied, concerning the Inspector nor his/her employer shall be rable in a connected with this inspection.	the pressure yessel p	art described in this ividers are proper or proper	ty damage or a loss of any kind arising f	no mor
Date 12/4/2015 Signed	JE D	Commissions	NB13919A	
C (Author	ized Inspector)		(mational board final endolatinema))	

(07/13)

NB-185 Shell