#### FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS KPE Corrected Project No. Copy (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) 021-006-001 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) **HORIZONAL** 11394 N/A 200-021-006-001-01 102 2016 4. Type (Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (National Board number) (Year built) (Drawing number) 5. ASME Code, Section VIII, Division 1 2013/ N/A N/A N/A (Special service per UG-120(d)) [Edition and Addenda, if applicable (date)] (Code Case numbers) 6. Shell: **SA516 GR70N** 36' 0.75 in 0.125 in 8' (OD) (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)] Body Flanges on Shells Bolting Flange How Туре No. ID OD Min Hub Thk Material Location **Bolting** Washer (OD, ID, Washer Thk Attached Num & Size Material thk) Material N/A TYPE 1 SPOT 85% TYPE 1 **SPOT** 7. Seams: N/A N/A 85% 4 [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, Minimum Corrosion Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Hemispherical Flat Side to Pressure (Convex or Ends) Thickness Allowance Angle Radius Diameter Concave) (a) **END** 0.6875" 0.125 N/A N/A 2:1 N/A N/A N/A CONCAVE END 0.6875" N/A CONCAVE (b) 0.125' N/A N/A 2:1 N/A N/A Body Flanges on Heads Min Hub Bolting Material Washer (OD, ID OD Flange Thk How Attached No. Location Type Material Thk Num & Size Washer Material ID, thk) N/A (a) N/A 87.85 psi 14.7 psi at max. temp. 350 °F 300 °F 9. MAWP (External) (External) (Internal) (Internal) Min. design metal temp. -20 °F at 87.85 psi Hydro, pneu., or comb. test pressure HYDRO at 114 psi N/A Proof test 10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain,		Diameter		Mai	Nozzle '	Thickness	Reinforcement	Attachme	nt Details	Location	
etc.)	No.	or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)
LIQUID INLET (A)	1	16" - 150	RFLWN	SA105	SA105	1"	0.125"	INHERENT	UW-16.1c		
VAPOR INLET(H)	1	10" - 150	RFLWN	SA105	SA105	1"	0.125"	INHERENT	UW-16.1c		
ext	2	4" - 150	RFLWN	SA105	SA105	0.75	0.125"	INHERENT	UW-16.1c		
ext	4	2" - 300	RFLWN	SA105	SA105	0.655	0.125"	INHERENT	UW-16.1c		
ext	3	12" - 150	RFLWN	SA105	SA105	1.19	0.125"	INHERENT	UW-16.1c		
AIR MOVER (V1)	1	6" - 150	RFLWN	SA105	SA105	0.875	0.125"	INHERENT	UW-16.1c		
MANWAY (M)	1	24" - 150	RFLWN	SA105	SA105	1.125	0.125"	INHERENT	UW-16.1c		CYLINDER #3
<b>BOOT ASSEMBLY (BT1)</b>	1	30" - 150	RFLWN	SA516 G70	SA105	1	0.125"	INHERENT	UW-16.1c		

Additional Nozzles - See Attached U-4...

11. Supports:	Skirt	N/A	Lugs	N/A	Legs	N/A	Other	SADDLES	Attached	CYLINDER #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:

BOOT BY GREENS BAYOU PIPE MILL, HOUSTON, TX (CERT 42546) S/N 6269-001 SHELL BY GREENS BAYOU PIPE MILL, HOUSTON, TX (CERT 42546) S/N 6253-001

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

IMPACT TESTING EXEMPT Uq-20 (f) FOR NON-LETHAL SERVICE OVER PRESSURE PROTECTION BY OTHERS FORM U-1A (Back)

NB Number 102

		CERTIFICATE OF SHOP/FIE in this report are correct and that a PRESSURE VESSEL CODE, Sec	all details of design, mate		
Date 03/11/2016	Co. name	Summit Energy (Manufacturer)	Equipment	Signed	Representative)
		CERTIFICATE OF S	HOP/FIELD INSPECTIO	N	
Vessel constructed I, the undersigned,	, <del></del>	Summit Energy Equipment ommission issued by The National		Pkwy., Sulphur Springs ssure Vessel Inspect	<del></del>
and state that, to th AND PRESSURE \warranty, expresse	component desc e best of my kno /ESSEL CODE, \$ d or implied, cond	ribed in this Manufacturer's Data R wledge and belief, the Manufacture Section VIII, Division 1. By signing cerning the pressure vessel descrit n any manner for any personal inju	er has constructed this pr this certificate neither th ped in this Manufacturer's	ressure vessel in acc ne Inspector nor his/r s Data Report. Furth	ner employer makes any nermore, neither the Inspector
Date04/12/	2016 Signe	ed(Authorized Inspector)	Commissions	[National Bo	11944AB pard (incl. endorsements)]

2389896 exe: v6.4.28 *Form and version:* U1A-18

KPE			FOF	RM U-4 MANUF	ACTURER'S D	ATA RE	PORT SU	JPPLEMENTARY	SHEET		
Project No 021-006-00 PO No.		As Red	quired by the	e Provisions of t	he ASME Boile	r and Pre	essure Ve	essel Code Rules,	Section VII	I, Division 1	Corrected Copy
1. Manufactured and	d cert	ified by Sur	nmit Energ	gy Equipment	, 41 HC Pione	er Pkwy	., Sulphi	ur Springs, Texa	as, 75482,	USA	
				<u> </u>		(Name a	ind address	of Manufacturer)			
2. Manufactured for	KP	ENGINEER	ING, 5555	OLD JACKSO	NVILLE HWY,	TYLER	, Texas,	75703, USA			
					(Na	me and add	ress of Purc	haser)			
3. Location of install	ation	NOT KNO	OWN								
						(Na	me and addr	ress)			
4. Type	HOF	RIZONAL			N/A				1	1394	
(Hor		vertical, or spher	re)	(Tank,	separator, heat exch	., etc.)				er's serial numbe	er)
N	/A			200-021-006	-001-01			102			2016
(CF	RN)			(Drawing nur				102 (National Board	number)		(Year built)
Data R							D				
Item Nu	ımbe	r					Rer	marks			
dditional nozzles, ins	specti	ion and safet	y valve opei								
urpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Туре	Ma: Nozzle	terial Flange	Nozzle Nom.	Thickness Corr.	Reinforcement Material	Attachme Nozzle	ent Details Flange	Location (Insp. Open.)
LT/LG	4	3" - 150	RFLWN	SA105	SA105	0.81	0.125"	INTERENT	UW-16.1c	i lange	(map. Open.)
LT/LG	4	2" - 300	RFLWN	SA105	SA105	0.655	0.125"	INHERENT	US-16.1c		
WATER OUTLET	1	2" - 150	RFLWN	SA106B	SA105	0.218	0.125"	INHERENT	US-16.1c		
						-					
Cortificate of Auth	ori-c1	ion: Tuno ""	1.10	Nie	12067			Evniros Moy 1	4 2040		

Summit Energy Equipment

Signed

11944AB (National Board Authorized Inspector Commission number)

Commissions

Date <u>03/11/2016</u> Name

Date 04/12/2016

Signed

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## 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

IB-102	
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1. N	lanufacture	ed and o	ertified b	у			(	Greens Bay					-		n, Texa	as 7701	5				
2. A	fanufacture	d for _					North	shore Supp	ly 1393	Name a 35 Indu:	ind addr strial Ro	ess of pad H	Manufa ouston	cturer) , Texas	77015			20 10000			
3. L	ocation of i	nstallat	ion						(Name		tress of Unknow		ser)								
4. T	ype			1 Sh	rell					(Nan	ne and a 6269									-	
										(Manufa	acturer's		numbe	r)				(CRN)			
E A	(Natio	Castin	number)	. 4	12	(Drawin	numbe	er)			(Draw	ing pre	pared !	by)				20 (Year			
											(Code (	Case no	umber)				Specia	service p	er UG-12	)(d)]	
6. Ş	hell: (a) l	Number	of cours	e(s)	1			(b) Overa	II leng	th	·				0'-(	6.375"					
No.	Diamete	ourse(s)	1		Material	_		kness			oint (Ca			Circu	T	nt (Cat			Heat T	eatme	ent
1	30" ID		Length 0'-6.375"												Temp.	Tir	me				
			0.0.0		3/13/10-/0			1	1		Full		-					+		┼	-
							~	Body Flan	es on S	Shells											$\overline{}$
					,							1				Во	lting				
No.	Туре	ID	00	Flange Thk	Min Hut	Thk	Materia	l How	Attached	Lo	cation	N	um & S	Size B	olting N	Aaterial		Washer D, ID, thk	Was	er Mat	terial
					-							丰									
7. H	eads: (a)						<del></del>			(b)	~										
П		7	nickness	c. number, gr				d temp.)	1			(Ma	terial sp	-		-	e) (H.T	— time a	ind temp.		
	Location (To Bottom, End	'P'		Crown	Knuckle	Ellipti Ratio		Conical Dex Angle	1	ispher Radius		Fla Diame		Side to Convex			Туре	1	gory A Spot, N		5#
(a)												J. 10.1111	101	CONTEX	1 0011	COVE	Type	ruit,	3pot, 14	JIIO .	Eff.
(b)				<u> </u>																	
								Body Flang	es on H	eads											
, ž												_				- Bol	ting V	Vasher			
(8)	Location	Туре	ID.	OD	Flange	Thk Mi	n Hub T	hk Mat	erial	How	Attached	N	ım & S	ize Bo	olting M	aterial	(00	, ID, thk)	Wash	er Mate	erial
(b)																					
8. M	AWP	ernal)	15.4	at ma	x. temp.		Internal				Min.	desig	an me	tal tem	р			at _			
9. In	pact test					t	lo														
10. H	/dro., pneu	or con	nb. test r	(Indicat pressure	e yes or no	end the Nor	compon e	ent(s) impac	t tested	1				or topt i	tempe	ature			·····		
	zzles, inspi								1001	icsi _									· V-		
	Purpose			Diameter			Ma	terial	No	zzle T	hickne	ss	Reinf	orceme	nt	Attach	ment	Details	10	cation	$\Box$
(Inle	t, Outlet, Dra	in, etc.)	No.	or Size	Туре	N	ozzle	Flange	No	om.	Cor	r.		aterial		Nozzle		Flange	-	. Oper	1
		<del></del>		-m				-	-								_	<u>-</u>	<b> </b>		_
12. lde	ntification	of part(	s)						J		<u></u>			·		····		······································	J		
	Name	of Part		Quantity	Line No.	Mfr's.	Identi	fication No	o.	Mfr's	Drawi	ing N	0.		CRN	I	Vation	nal Boar	d No.	ear B	tuilt
				11			· · · · · ·														
3. Su	pports: Skir	(Yes	orno) Li	igs	Le	gs <u> </u>	imher)	_ Other	·	(Dec	cribe)		_ Att	ached							
4. Rei	marks		<del></del>															nere and I			
	*No	Design I	Functions I	y Greens Ba	you Pipe	Mill; WP	S is qua	alified with o	or witho	ut PWF	tT. For	ned in	Accor	dance wi	ith UG 7	79, UG	80 an	d UCS 7	<del>)</del> .		

### FORM U-2A (Back)

	CERTIFICATE OF SHOP/	FIELD COMPLIANCE	
	in this report are correct and that all DILER AND PRESSURE VESSEL CODE	Il details of material, construction, and workmanship of this pres E, Section VIII, Division 1.	ssure
U Certificate of Authorization No.	42,546 Expires	01/19/2018	
Date 12 17 15 Name	Greens Bayou Pipe Mill (Manufacturer)	Signed (Reprosentative)	
	CERTIFICATE OF SHOP	FIELD INSPECTION	
	commission issued by the Nationa ed Inspection Associates, LLC	Board of Boiler and Pressure Vessel Inspectors and employed of Houston, Texas	ed by
have inspected the pressure vessel p	art described in this Manufacturer's D	Data Report on	
		turer has constructed this pressure vessel part in accordance	
		. By signing this certificate neither the Inspector nor his/her emp	
		part described in this Manufacturer's Data Report. Furthermore, n	
the inspector nor his/her employer s	hall harvable in only magner to lany po	personal injury or property damage or a loss of any kind arising fr	om or
connected with this inspection.	MATADLE CITO	Commissions NB 13919A	
Jale	(Authorized Inspector)	[National Board (incl. endorsements)]	

(07/13)

NB-102 Poot

# 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

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1. N	// Anufacture	d and	certified b	У				reens Bay							n, Texas 770	15		·	
2. 1	// Anufacture	d for	<del></del>				Norths	hore Supp	ly 1393		trial Ro	ad H	ouston	cturer) , Texas 7	7015				
3. L	ocation of i	nstalla	ition						(Name		Unknov	vn		0 000					
										(Nam	e and a 6253		)						
	ype	[Des	cription of ves	ssel part (she	l, two-piece	head, to	be bund	le)]		(Manufa			numbe	r)			(CRN) 201	5	
5 4	(Natio		rd number)	1			numbe	r}			(Drawi	ng pre	pared b	iy)			(Year b		
	ihell: (a) l			(Edit	ion and Add	enda, if	applica	ble (date))	ll lana	th	(Code C				36'-0"	Special	service p	er UG-120	)(d)]
						r			···		,	-							
No.	Diamete	ourse(s	Length		Material /Grade or	Type	Thick			Full, S			Eff.		m. Joint (Ca		1		eatment
2	96" ID		10'-0"		SA516-70	1900	0.75"	*	1	run, s	Full	10118	¢11.	1ype 1	Full, Spot, Full	None	Eff.	Temp.	Time
2	96° ID		8'-0"		SA516-70		0.75"	*	1		Full		•	1	Full				
					····														
								Body Flan	ges on S	Shells	<del>()***; #***</del>								
										1	<del></del>	F			В	olting			
No	Туре	ID	GO	Flange Thk	Min Hub	Thk	Materia	How.	Attached	Loi	cation	N	um & 5	Size Bo	olting Materia		Washer D, ID, thk)	Wash	er Material
																-			
····		·																	
7. H	eads: (a)		(Material spe	c. number, g	rade or type	) (H,T. —	time and	d temp.)		(b) _	· · · · · · · · · · · · · · · · · · ·	(Mai	terial sp	ec. numb	er, grade or ty	ре) (Н.Т.	. — time a	nd temp.	
	Location (To	· P ·	Thickness	Radi	us	Ellipti	cal	Conical	Hem	ispheri	cal	Fla			Pressure			gory A	
(a)	Bottom, En	ds) M	in. Corr.	Crown	Knuckle	Ratio	) Ap	ex Angle	Я	Radius	1	Diame	eter (	Convex	Concave	Туре	Full, S	pot, No	ne Eff.
(b)		$\dashv$		-			_												
										·				***************************************	1	L	<u> </u>		
		<del></del>					······································	Body Flang	es on H	eads		γ			Br.	lting			
	Location	Туре	ID	OD	Flange	Thk M	n Hub T	hk Ma	terial	How A	attached	N	um & S	ize Bo	Iting Material	V	Vasher ), ID, thk)	Wash	er Material
(a) (b)										-						100	7 (4) (11)	1770311	. Waterial
8. N	IAWP	lernal)	(Extern	at ma	ax. temp.		internal)		(Extern	al)	Min.	desig	jn me	tal tem	p		at	.1	
9. In	npact test			(Indica	te yes or no		.1 -								emperatur				
	ydro., pneu ozzles, insp		mb. test p	ressure		No	ne		Proof	test			**************************************	*****					
	Purpose	-	T	Diameter		T	Mət	erial	No	zzle Tr	nicknes	ss	Reinf	orcemer	at Attacl	ment	Details	1	nation
(Inle	t, Outlet, Dr	in, etc.	.) No.	or Size	Туре		lozzle	Flange	_	om.	Cor			aterial	Nozz		Flange	4	cation . Open.)
<b>,</b>							····			I									
2. Id	entification	of par	t(s)					L,										L	
	Name	of Part		Quantity	Line No.	Mfr's	Identif	ication N	о.	Mfr's.	Drawi	ing N	o.	(	CRN	Nation	nal Board	No.	ear Built
	P&	· · · · · · · · · · · · · · · · · · ·		ļ															
3. Su 4. Re	pports: Ski marks			-										ached	with UG 79, I		nere and h		

### FORM U-2A (Back)

	CERTIFICATE OF SHOP	/FIELD COMPLIANCE	
We certify that the statements made vessel part conform to the ASME BO			struction, and workmanship of this pressure
U Certificate of Authorization No	42,546 Expires	01/19/2018	WK (/
Date Name	Greens Bayou Pipe Mill (Manufacturer)	SignedA	(Representative)
	CERTIFICATE OF SHOP	/FIELD INSPECTION	
	commission issued by the National Inspection Associates, LLC	al Board of Boiler and Pr	ressure Vessel Inspectors and employed by Houston, Texas
have inspected the pressure vessel pa	art described in this Manufacturer's	Data Report on	12 / 14 / 2015
1			is pressure vessel part in accordance with
			te neither the Inspector nor his/her employer.
makes any warranty, expressed or imp	lied, concerning the pressure vesse	I part described in this Ma	nufacturer's Data Report. Furthermore, neither
the Inspector nor his/her employer sh	all be liable in any manner for any p	personal injury or propert	y damage or a loss of any kind arising from or
connected with this inspection.	holish - Chan	2	
Date 12/14/2015 Signed	MINULIVE HIVE	Commissions	NB13919A
	(Authorized Inspector)		(National Board (incl. endorsements))

(07/13)

48-107